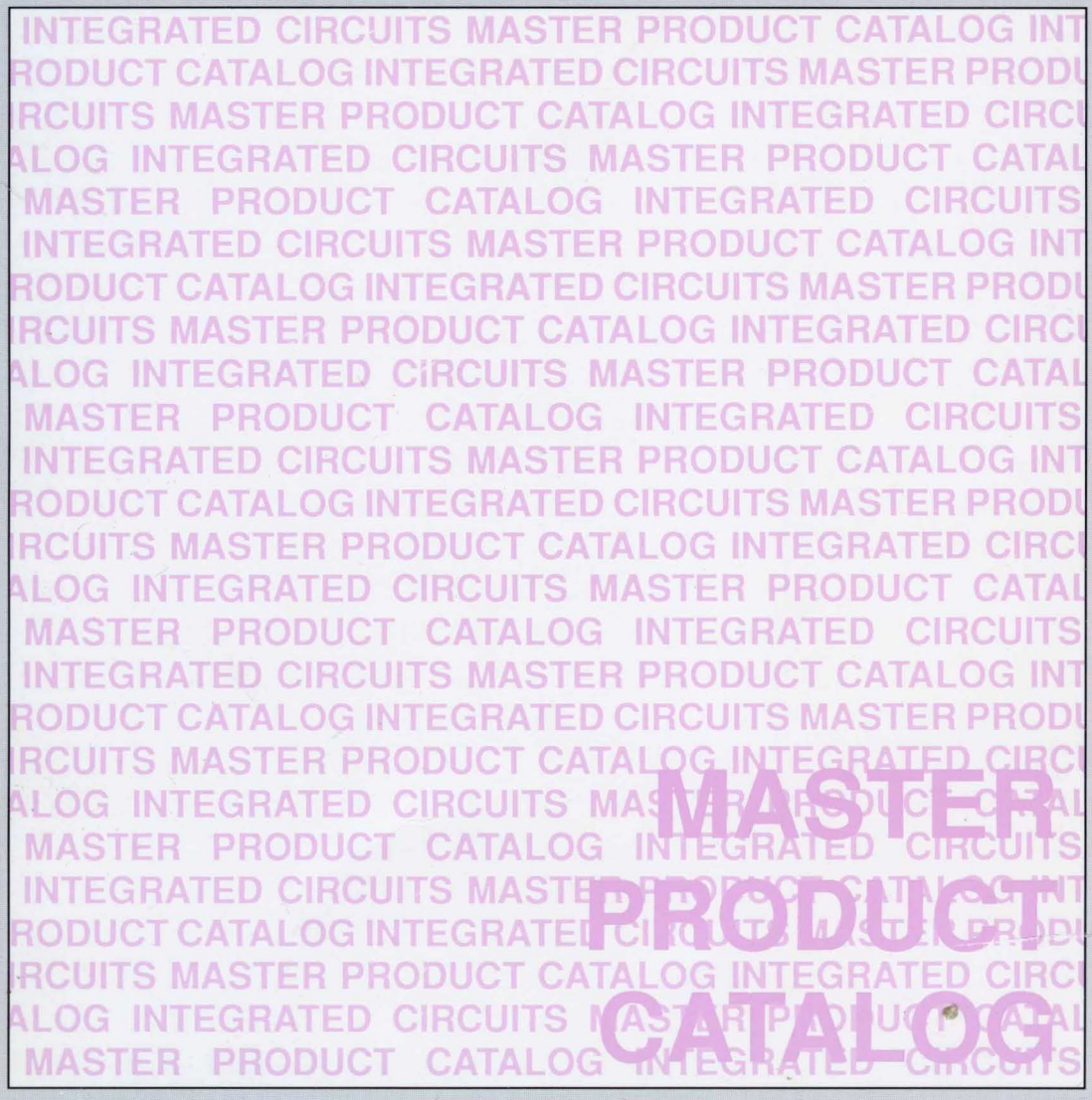


Signetics

Philips Semiconductors

PHILIPS

PHILIPS

Master Product Catalog

October 1991

Signetics reserves the right to make changes, without notice, in the products, including circuits, standard cells, and/or software, described or contained herein in order to improve design and/or performance. Signetics assumes no responsibility or liability for the use of any of these products, conveys no license or title under any patent, copyright, or mask work right to these products, and makes no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described herein for any of these products are for illustrative purposes only. Signetics makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

LIFE SUPPORT APPLICATIONS

Signetics Products are not designed for use in life support appliances, devices, or systems where malfunction of a Signetics Product can reasonably be expected to result in a personal injury. Signetics customers using or selling Signetics Products for use in such applications do so at their own risk and agree to fully indemnify Signetics for any damages resulting from such improper use or sale.

Signetics registers eligible circuits under
the Semiconductor Chip Protection Act

Table of Contents

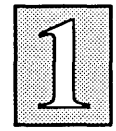
1 General Information

2 Product Spotlights

3 Product Information

Table of Contents

General Information



Index

Introduction

This catalog is designed to help you, the customer, identify and specify Signetics integrated circuits. The contents include a listing of available commercial products by product grouping and alphanumeric order, ordering and packaging information and a listing of worldwide sales offices.

About Signetics

Signetics was founded in 1961, one of the first companies dedicated exclusively to the potential of the integrated circuit business. Today the company operates as part of a global network of companies within Philips Semiconductors, the tenth largest vendor of integrated circuits in the world.

Signetics designs, manufactures and markets a wide range of integrated circuits to support computing and communications applications for business, industrial, automotive, military and consumer markets. Through its standard product portfolio the company offers the most popular high-performance fixed-function and programmable logic devices in three technologies: Bipolar, CMOS and now BiCMOS. Its application-specific products offer designers value-added products for many personal communication as well as large network applications - - both important emerging segments in this age of information.

"Signetics develops, manufactures and globally markets high-performance application-specific and standard ICs."

In the decade ahead Signetics will continue to improve the speed, power and cost structure of what is now the industry's most advanced BiCMOS process. It will also migrate its expertise in digital and analog design into mixed signal circuit applications to meet the demands of newer markets.

Our Commitment to Partnering and Quality

Signetics has been a leader over the last decade in its quality improvement process and its innovative zero defects program. Today the company approaches a highly competitive market with the understanding that customers are narrowing their suppliers to a few key partners who excel in six essential dimensions of performance: Technology Advancements; New Products; Global Customer Support; Product and Service Quality; Manufacturing Excellence and Employee Involvement.

Major Product Categories

DIGITAL LOGIC
- ABT (BiCMOS)
- MULTIBYTE™ (BiCMOS)
- Futurebus+ (BiCMOS)
- FAST
- ACL
- ALS
- HC/HCT CMOS
- 10K/100K ECL
- TTL/LS/S
- 4000 CMOS

MEMORY
- EPROM (UV/OTP)
- PROM/CPROM
- Bipolar PROM
- DRAM Controllers
- FIFO

MICROCONTROLLER
- 8052/80C51 Family
- 80C51 Derivatives
- Other 8-bit MCUs
- EPROM/OTP Versions
- 4-bit MCUs
- 16-bit MCUs
- I^2C Bus Controllers

AUTOMOTIVE
- Radio/Entertainment
- Interface/Data Conversion
- Motor Controllers

MEDIA COMPONENTS
- Video
- Audio
- Radio
- Telephony

MILITARY
- JAN B and S
- Military Drawings
- 883C 1.2.1

COMMUNICATIONS
- RF Communications
- Data Communications
- Cellular
- Ethernet
- Compandors
- Fiber

ASIC/CUSTOM PRODUCTS
- Automotive
- Disk Drive
- High-Speed Data Processing

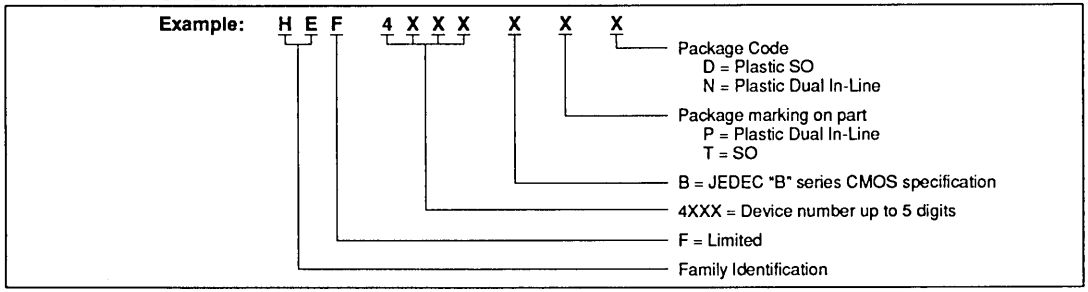
PROGRAMMABLE LOGIC
- PAL®/-Type Devices/PLA
- Sequencer/State Machine (PLS)
- Programmable Macro Logic (PML)
- Field Programmable Gate Array (FPGA)
- Design Support – SLICE & SNAP

SURFACE MOUNT PACKAGING
- Plastic Leaded Chip Carrier (PLCC)
- Ceramic Leadless Chip Carrier (CLLCC)
- Ceramic Leaded Chip Carrier (CLCC)
- Quad Flat Pack (QFP)
- Small Outline (SO)
- Shrink Small Outline Package (SSOP)

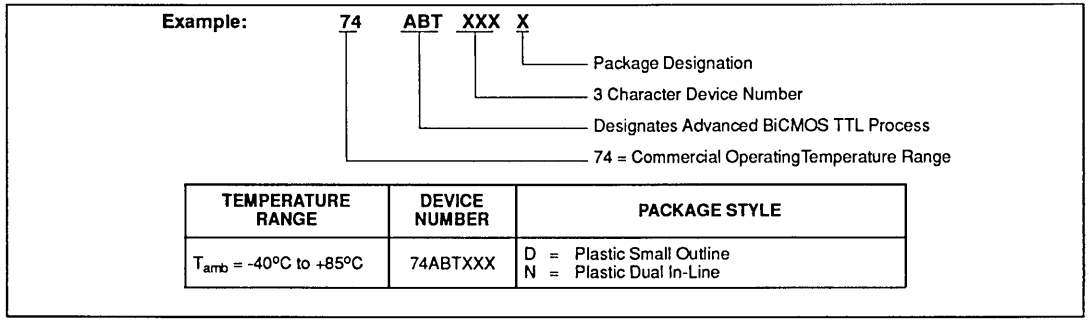
PAL is a trademark of AMD/MMI
MULTIBYTE is a trademark of Signetics

Ordering Information

4000 CMOS PRODUCTS PART NUMBERING SYSTEM

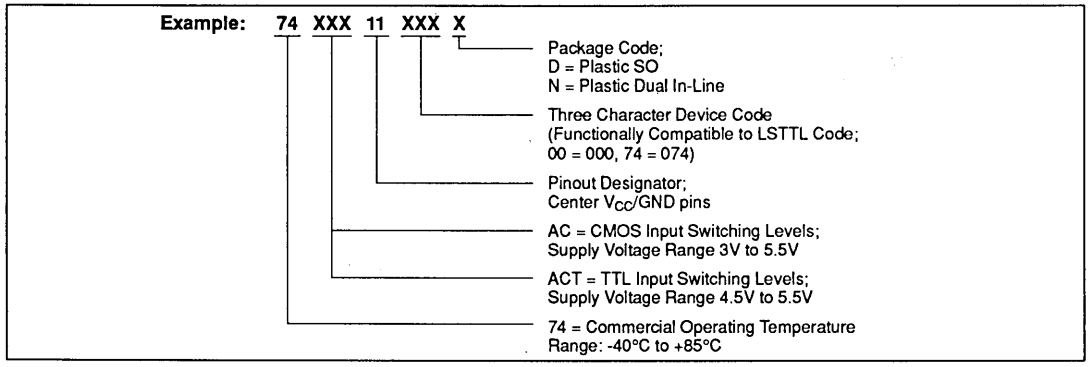


ABT PRODUCTS PART NUMBERING SYSTEM



TEMPERATURE RANGE	DEVICE NUMBER	PACKAGE STYLE
T_{amb} = -40°C to +85°C	74ABTXXX	D = Plastic Small Outline N = Plastic Dual In-Line

ACL PRODUCTS PART NUMBERING SYSTEM



Ordering Information

DATA COMMUNICATIONS CONTROLLERS PART NUMBERING SYSTEM

Example: S C N X X X X X C 6 N 4 8

SC – Signetics Designator

Process/Power Variation
N = N – Channel
C = C – MOS
B = Bipolar

Basic Part Number
See individual data sheets

Pin count
14, 16, 20, 24, 28, 40, 48, etc.

Package
A = Plastic Leaded Chip Carrier (PLCC)
F = Ceramic Dual In-Line
I = Hermetic Sidebraze Ceramic Dual In-Line
N = Plastic Dual In-Line
P = Pin Grid Array – Hermetic

Timing Variation

Spd	Sym	Spd	Sym	Spd	Sym
01	1	21	1	41	1
02	2	22	2	42	2
03	3	23	3	43	3
04	4	24	4	44	4
05	5	25	5	45	5
06	6	26	6	46	6
07	7	27	7	47	7
08	8	28	8	48	8
09	9	29	9	49	9
10	A	30	0	50	0
11	B	31	1	51	1
12	C	32	2	52	2
13	D	33	3	53	3
14	E	34	4	54	4
15	F	35	5	55	5
16	6	36	6	56	6
17	7	37	7	57	7
18	8	38	8	58	8
19	9	39	9		.
20	0	40	0		.

Unless otherwise noted.

Temperature
C = 0°C to 70°C (Commercial)
A = -40°C to +80°C (Automotive)
M = -55°C to +125°C (Military)
P = -20°C to +70°C (Philips)

ECL 10K/100K PRODUCTS PART NUMBERING SYSTEM

Example: 100XXX F

Package Style

Device Number

TEMPERATURE RANGE	DEVICE NUMBER	PACKAGE STYLE
T_{amb} = -30°C to +85°C	10XXX	D = Plastic SO F = Ceramic Dual In-Line N = Plastic Dual In-Line
T_{amb} = 0°C to +85°C	100XXX	A = Plastic Leaded Chip Carriers (PLCC) F = Ceramic Dual In-Line Y = Ceramic Square Quad Flat Pack

Ordering Information

EPROMS PART NUMBERING SYSTEM

Example: 27C XXX I N

- N — Package Code:
  - A = Plastic Leaded Chip Carrier (PLCC)
  - D = Plastic SO
  - FA = Ceramic Dual In-Line with Window
  - N = Plastic Dual In-Line
- I — Temperature Range:
  - – = 0°C to +70°C (Commercial)
  - I = -40°C to +85°C (Industrial)
  - A = -40°C to +125°C (Automotive)
  - M = -55°C to +125°C (Military)
- XXX — Part Density
  - 64A = 8K × 8
  - 256 = 32K × 8
  - 512 = 64K × 8
  - 010 = 128K × 8
  - 210 = 64K × 16
  - 040 = 512K × 8
  - 240 = 256K × 16
- 27C — Family Designator

HIGH-SPEED CMOS PRODUCTS PART NUMBERING SYSTEM

Example: 74 HC XXXXX N

- N — Complete type number; standard temperature range
- N — Package Code:
  - D = Plastic SO
  - N = Plastic Dual In-Line
- XXXXX — Device number (up to 5 digits)
- HC — HC = CMOS input switching levels, supply voltage range 2V to 6V, fully buffered.
  HCT = TTL input switching levels, supply voltage range 4.5V to 5.5V, fully buffered.
- 74 = Standard temperature range: -40°C to +125°C

Ordering Information

LOGIC PRODUCTS PART NUMBERING SYSTEM

Example: N 74LSXXX N

- N — Temperature Range
- 74LSXXX — Device Number
- N — Package Style

TEMPERATURE RANGE	DEVICE NUMBER	PACKAGE STYLE
N = Commercial Range 0°C to 70°C	74ALSXXX 74XX 74FXX 74LSXX 74SXX 8TXX	A = Plastic Leaded Chip Carrier (PLCC) D = Plastic SO N = Plastic Dual In-Line

LINEAR PRODUCTS PART NUMBERING SYSTEM

Example: NE XXXX N

Package Description:
- A = Plastic Leaded Chip Carriers (PLCC)
- D = Plastic SO
- F = Ceramic Dual In-Line
- G = Hermetic Chip Carriers – Leadless
- H = Headers
- N = Plastic Dual In-Line
- P = Pin Grid Array – Hermetic
- W = Hermetic Cerpac
- Y = Ceramic Square Quad Flat Pack

Device Number

Device Family and Temperature Range Prefix
- AU = -40°C to +125°C
- NE = 0 to +70°C
- SE = -55°C to +125°C
- SA = -40°C to +80°C

PHILIPS PRODUCTS PART NUMBERING SYSTEM
PREFIXES HE, PC, PN, SA, TD, TE, TS, UM

Example: TD A XXXX P N

Device Family
- HEx = CMOS Circuit
- PCx = CMOS Circuit
- PNx = NMOS Circuit
- SAx = Digital Circuit
- TDx = Linear Circuit
- TEx = Linear Circuit
- TSx = Analog Circuit
- UMx = Digital Circuit

Package Description:
- N = Plastic Dual In-Line
- D = Plastic SO
- F = Ceramic Dual In-Line
- U = Plastic Single In-Line

Package Marking on Part:
- P = Plastic Dual In-Line
- T = Plastic SO
- D = Hermetic Cerdip

Device Number

Operating Temperatures:
- A = Temperature range not specified (see data sheet)
- B = 0 to +70°C
- C = -55°C to +125°C
- D = -25°C to +70°C
- E = -25°C to +85°C
- F = -40°C to +85°C

Ordering Information

MICROCONTROLLER PRODUCTS PART NUMBERING SYSTEM

Example: P 8 X C X X B B P N

- P — Philips
- X — 0 = ROMLESS, 3 = ROM, 7 = EPROM/OTP
- N — Signetics Package Designator
  - A = Plastic Leaded Chip Carrier (PLCC)
  - B = Quad Flat Pack (QFP)
  - FA = Ceramic Dual In-Line (w/window)
  - KA = Ceramic Leaded Chip Carrier (CLCC) (window)
  - N = Plastic Dual In-Line
- P — Philips Package Designator
  - A = PLCC
  - B = Quad Flat Pack (QFP)
  - F = Ceramic Dual In-Line
  - L = Ceramic Leaded Chip Carrier (CLCC) (window)
  - P = Plastic Dual In-Line
- B — Temperature
  - B = 0°C to +70°C
  - F = -40°C to +85°C
- B — Speed
  - E = 16MHz
  - G = 20MHz

Example: SC 8 X C X X B C C N 40

- SC — SCN = NMOS, SCC = CMOS, SC = Signetics Designator
- X — 0 = ROMLESS, 3 = ROM, 7 = EPROM/OTP
- 40 — Pin Count
- N — Package Designator
  - A = Plastic Leaded Chip Carrier (PLCC)
  - FA = Ceramic Dual In-Line (with window)
  - KA = Ceramic Leaded Chip Carrier (CLCC) (window)
  - N = Plastic Dual In-Line
- C — Speed
  - B = 11MHz (or 0.5 to 12MHz)
  - C = 12MHz
  - F = 15MHz
  - G = 16MHz
  - L = 20MHz
  - P = 24MHz
  - Y = 33MHz
- C — Temperature
  - C = Commercial 0°C to +70°C
  - A = Industrial -40°C to +85°C
- B — Revision

Example: S 8 X CXXX -1 N 24

- S — Signetics
- X — 0 = ROMLESS, 3 = ROM, 7 = EPROM/OTP
- 24 — Pin Count
- N — Package Designator
  - A = Plastic Leaded Chip Carrier (PLCC)
  - B = Quad Flat Pack (QFP)
  - FA = Ceramic Dual In-Line (with window)
  - KA = Ceramic Leaded Chip Carrier (CLCC) (window)
- -1 — Speed / Temperature Range
  - -1 = 12MHz, 0°C to +70°C
  - -2 = 12MHz, -40°C to +85°C
  - -3 = 0.5 to 12MHz, 0°C to +70°C
  - -4 = 16MHz, 0°C to +70°C
  - -5 = 16MHz, -40°C to +85°C
  - -6 = 12 or 16MHz, -55°C to +85°C

Ordering Information

PLD PRODUCTS PART NUMBERING SYSTEM

Example: P(L) XX YYYY Q P

- **P(L)** — Indicator for Signetics Programmable Logic
  (Can be either P, PL, or blank)
  (P for PHD and PML and blank for ECL devices)
- **XX** — Process/Architecture Indicator
  - S = Bipolar Junction Isolated Schottky – Nichrome fuses
  - C = CMOS – EPROM cells
  - HS = High Speed Bipolar Oxide Isolated – Vertical Fuse
  - US = High Speed Bipolar Oxide Isolated – Lateral Fuse
  - HD = High Speed Decoder
  - ML = Macro Logic
  - (Blank for ECL devices)
- **YYYY** — Basic Part Number
  (3 to 8 characters)
  (e.g., 100, 105, 153, 168, 173, 18P8, 42VA12)
- **Q** — Performance indicator
  Z = Zero standby power devices
  blank, A, B, D, -35, -7, etc. = propagation delay (ns)
  -37, -45, -55, etc. = operating frequency (MHz)
- **P** — Package Designator
  - F = 20-, 24-, 28-Pin Ceramic Dual In-Line
  - N = 20-, 24-, 28-Pin Plastic Dual In-Line
  - A = 20-, 28-, 52-, 68-lead Plastic Leaded Chip Carrier (PLCC)
  - FA = 20-, 24-Pin Ceramic Dual In-Line with Quartz Window

Operating temperature range = 0 to +70°C
EXCEPT: PLC18V8ZI= -40 to +85°C

* GAL is a registered trademark of Lattice Corp.
* PAL is a registered trademark of MMI, Corp., a wholly-owned subsidiary of Advanced Micro Devices (AMD), Inc.

PROMS PART NUMBERING SYSTEM

Example: N82 XXX YYY Z P

- **XXX** — Process Indicator
  - HS = High Speed Bipolar Oxide Isolated — Vertical Fuse
  - LHS = High Speed Bipolar Oxide Isolated — Vertical Fuse
  - LS = High Speed Bipolar Oxide Isolated — Vertical Fuse
  - S = Bipolar Junction Isolated Schottky — Nichrome Fuses
  - US = High Speed Bipolar Oxide Isolated — Lateral Fuse
- **YYY** — Basic Part Number
  (2 or 3 characters)
- **Z** — Performance Indicator
  (May be blank, A, B, C, etc., to designate speed variations in basic part.)
- **P** — Package Designator
  - A = Plastic Leaded Chip Carrier (PLCC)
  - D = Plastic SO
  - F = Ceramic Dual In-Line
  - F3 = 24-pin Ceramic Dual In-Line (300-mil)
  - N = Plastic Dual In-Line
  - N3 = 24-pin Plastic Dual In-Line (300-mil)

Operating temperature range = 0 to +70°C
EXCEPT: 10149 = -30 to +85°C

SSOP Shrinks Communications Products

Signetics' new Shrink Small Outline Package (SSOP) is the smallest commercially available 20-pin package targeted for portable communications. Requiring a scant one-third of the board space occupied by predecessors such as Small Outline Large (SOL) packages, it enables designers to fit their highly integrated circuits into substantially smaller spaces.

The SSOP measures 1.5mm × 4.5mm × 6.75mm. In addition to its small footprint, it is thinner as well, a key advantage for space-sensitive applications.

20-Pin SSOP (.65)

20-Pin Plastic SOL

Signetics' SSOP offers the same highly reliable product characteristics at less than a third the size of the SOL package.

This new package is perfect for pocket cordless phones and other pocket cellular products, wireless microphones, hearing aids, pagers and pen/watch receivers.

The first products offered in this space-saving package are Signetics' popular NE/SA575DK low voltage compandor and NE/SA605DK/615DK high-performance low-power mixer FM IF system.

The NE/SA 575DK is a precision dual-gain control circuit designed for low-voltage applications. Compandors reduce noise and boost dynamic range in audio and communications products.

The NE/SA605DK/615DK incorporates a mixer/oscillator, two limiting intermediate frequency amplifiers, quadrature detector, muting, and logarithmic Received-Signal-Strength Indicator (RSSI).

Packing Quantity Information

CERAMIC DUAL IN-LINE (CERDIP)

PACKAGE TYPE	PIN COUNT	QUANTITIES	
		DEVICES PER TUBE	DEVICES PER BOX
F/F8/FE	8-pin (300-mil)	48	1920
F/F14	14- 16-pin (300-mil)	25	1000
F	18-pin (300-mil)	21	840
F/FA	20-pin (300-mil)	20	800
F	22-pin (400-mil)	17	544
F/FA/F24/F6	24-pin (600-mil)	15	360
F/FA/F3	24-pin (300-mil)	15	600
F/FA/F24	24-pin (400-mil)	15	480
F6/F/FA/F28	28-pin (600-mil)	13	312
FA	32-pin (600-mil)	11	264
F/FA/F40	40-pin (600-mil)	9	216

PLASTIC DUAL IN-LINE

PACKAGE TYPE	PIN COUNT	QUANTITIES	
		DEVICES PER TUBE	DEVICES PER BOX
N/N8	8-pin (300-mil)	50	2000
N/N14/N16	14- 16-pin (300-mil)	25	1000
N	18-pin (300-mil)	20	800
N/N20	20-pin (300-mil)	18	720
N	22-pin (400-mil)	17	544
N/N6	24-pin (600-mil)	15	360
N/N3/N24	24-pin (300-mil)	15	600
N/N24	24-pin (400-mil)	15	480
N/N28	28-pin (600-mil)	13	312
N/N3	28-pin (300-mil)	13	520
N	32-pin (600-mil)	11	264
N/N40	40-pin (600-mil)	9	216
NB (Shrink)	42-pin (600-mil)	12	288
N/N48	48-pin (600-mil)	7	168
N	50-pin (900-mil)	7	112
N/N64	64-pin (900-mil)	5	80

Packing Quantity Information

SMALL OUTLINE (SO)

PACKAGE TYPE	PIN COUNT	QUANTITIES		
		DEVICES PER TUBE	DEVICES PER BOX	DEVICES PER REEL
D/D8	8-pin (150-mil)	100	10000	2500
D	8-pin (300-mil)	62	6200	500
D/D14	14-pin (150-mil)	57	5700	2500
D	16-pin (150-mil)	50	5000	2500
D	16-pin (300-mil)	48	1920	1000
DK(SSOP)	20-pin (170-mil)	75	6750	2500
D	20-pin (300-mil)	38	1520	1000
D/D24	24-pin (300-mil)	32	1280	1000
D	28-pin (300-mil)	27	1080	1000
VSO-40	40-pin	30	1200	1000

QUAD FLAT PACK

PACKAGE TYPE	PIN COUNT	QUANTITIES	
		DEVICES PER TRAY	DEVICES PER BOX
B/B44	44-pin	50	500
B/B44	44-pin	96	480
B/B52	52-pin	119	595
B/B80	80-pin	66	330
B	100-pin	50	250
B	120-pin	30	150

CERAMIC CERQUAD

PACKAGE TYPE	PIN COUNT	QUANTITIES	
		DEVICES PER TRAY	DEVICES PER BOX
KA/K44	44-pin	6	180
KA/K68	68-pin	4	240

Packing Quantity Information

PLASTIC LEADED CHIP CARRIER (PLCC)

PACKAGE TYPE	PIN COUNT	QUANTITIES		
		DEVICES PER TUBE	DEVICES PER BOX	DEVICES PER REEL
A	20-pin	46	3680	1000
A/A28	28-pin	37	2368	750
A	32-pin	31	2232	750
A/A44	44-pin	26	1248	500
A/A52	52-pin	23	1012	500
A/A68	68-pin	18	648	250
A/A84	84-pin	15	420	250

QUANTITIES SHOWN IN GRAY REQUIRE PURCHASE TO BE MADE IN EXACT MULTIPLES OF THAT QUANTITY.

Quality and Reliability

SIGNETICS' QUALITY PROGRAM

In 1979, Signetics recognized that quality was becoming a major competitive issue, not only in the semiconductor business but also in other industries. Increases in the volume of products imported from the Far East (steel, automobiles, and consumer products) sent strong signals that new competitive forces were at work.

An investigation into a variety of quality programs was started. The company realized that quality improvement would require a contribution from all employees. Management commitment and participation, however, was recognized as the primary prerequisite for this program to work successfully. Resources required for the resolution of defects were under management control.

The "Signetics Quality Journey" from 1980 into the decade of the '90s is summarized in Table 1. In 1980 a program was developed which focused on quality management. Rearranging previous quality control philosophies, we developed a decentralized, distributed quality organization and simultaneously installed a Quality Improvement Process (QIP) based on the 14-Step improvement program advocated by Phil Crosby. The process was formally begun company-wide in 1981. Since then substantial progress has been made in every aspect of our operations. From incoming raw material conformance to improvements in clerical errors — every department and individual is involved and striving for Zero Defects. Zero Accept sampling plans and Zero Defects warranties are evidence of our ongoing commitment to and progress in quality. Over the past decade, Signetics has achieved a 90 fold improvement in product electrical quality, 30 fold improvement in product mechanical quality and a 20 fold improvement in product reliability. Signetics goal for the '90s is to be the industry leader in customer satisfaction, with products of Six Sigma Quality/Reliability and world class responsiveness to customer needs and wants.

Today the Total Quality Management (TQM) model is applied to the QIP, as illustrated in Figure 1, having a far-reaching impact on all aspects of our business. The customer is at the start (driver) and end (goal) of the TQM model which requires a driver, system, measures and goal. The customer is the primary driver. Leadership is provided by Quality Improvement Teams (QITs) which ensure that customer interaction occurs and that the organization supports the mission, QI policy and customer direction. TQM requires a clear set of management principles which mandate systems and measurements consistent with stated objectives. TQM endorses and utilizes the seven major examination categories of the U.S.A. Malcolm Baldrige National Quality Award. Together, the examination categories address all major components of an integrated, prevention based system built around continuous improvement and customer satisfaction.

ZERO DEFECTS WARRANTY

In the '80s, American industry demanded increased product quality of its IC suppliers in order to meet growing international competitive pressure. As a result of this quality focus, it became clear that what once was thought to be unattainable— Zero Defects— is, in fact, achievable.

Signetics offers a Zero Defects Warranty which states that we will take back an entire lot if a single defective part is found. This precedent setting warranty implemented in 1985 effectively ended the IC industry's "war of the AQLs" (Acceptable Quality Levels). The ongoing efforts of IC suppliers to reduce PPM (Parts Per Million) defect levels is now a competitive customer service measure. This intense commitment to quality provides an advantage to today's electronics OEM. That advantage can be summed up in four words: ***Reduced Cost of Ownership.***

As IC customers look beyond purchase price to the total cost of doing business with a supplier, it is apparent that a quality-conscious supplier represents a viable cost reduction resource. Consistent high-quality circuits reduce requirements for expensive test equipment and personnel, and allow for smaller inventories, less rework, and fewer field failures. Programs such as Self Qualification and Ship-To-Stock implemented in 1984 and Cycle Time Management (CTM) implemented in 1989 help reduce cost of ownership.

STATISTICAL PROCESS CONTROL (SPC)

Although application of statistics in our process development and manufacturing activities goes back to the early 1970's, the corporate-wide emphasis on Statistical Process Control (SPC) did not come until mid-1984.

A natural evolution of our quality improvement process made introduction of SPC and other related programs an inevitable event. SPC was, therefore, introduced under the QIP umbrella. The Crosby definition of Quality, "Conformance To Requirements (Specification)" was expanded to include "Conformance To Specified Targets". The measurement definition of "continuous improvement" was expanded to include "Continuous Reduction of Variability Around the Specified Target".

Quality and Reliability

The objective of SPC is to institutionalize a systematic and scientific approach to business and manufacturing activities. This approach utilizes sound statistical theory. Managers are expected to be able to turn data into information and to make decisions solely on data (not perception).

The most critical and challenging aspect of implementing SPC is the establishment of a discipline within the operating areas so that decision making is fundamentally based on verifiable data and so that actions are documented. The other is the realization that statistical tools merely point out the problems but are not themselves solutions. The burden of action on the process is still on the shoulders of the person that implemented it. In order to implement SPC effectively, three steps are continually followed:

1. Documenting and understanding the process and using process flow charts and component diagrams.
2. Establishing data collection systems and using SPC tools to identify process problems and opportunities for improvement.
3. Acting on the process and establishing guidelines to monitor and maintain process control.

Repeating steps 1-3 again.

These fundamentals are the basis of establishing specifications and operating philosophy with respect to SPC. We believe a solid foundation creates a permanent system and accelerates our quality improvement process.

Table 1. Signetics Quality Journey

FOCUS		• Raw Material Quality • Product Quality • Individual Responsibility for Quality	• Supplier Partnerships • Manufacturing Excellence	• Customer Partnerships • In-process Quality Control • Product Reliability	• Cross Functional Operation • Better Management Practices • Cycle Time Management	• Customer Driven • Design Quality • Involve Everyone • Competitive & Functional Benchmarks
INITIATIVES	SUPPLIER	• No Waiver Policy • Audits • Certification Program	• Recognition • Ship-to-Stock (STS)	• SPC Implementation	• Measurement-TQRDC • Supplier Teams	• Cycle Time Management • Broaden to Equipment & Service
	INTERNAL	• Decentralized Q & R Function • Crosby 14 Steps & Absolutes • 33 QITs Formed • All Employees Sign ZD Pledge	• JIT Manufacturing • Zero Accept Sampling Plans • Repeat 14 Steps	• SPC Introduction • Early Failure C/A Program • 14 Steps to 9 Elements • Customer Workshop	• Design Development Cycle Time Reduction • Make Market Cycle Time Reduction • Inventory Reduction • Baldrige Assessment & Planning	• 6 Sigma Strategy • Responsiveness Strategy • Benchmarking – Design Methodology – Mfg. Excellence – Quality & Service • QIP Audits
	CUSTOMER	• PPM Program	• ZD Warranty Policy • STS Program • Customer Process Change Notification • Self Qual Program	• Listening Post-TQRDC • Advocate Program • Lot Traceability	• SPC Communications • Customer Certifications • Electronic Data Interchange	• Customer Relationship Management Plan • Customer Survey • Quality Strategy Communications
GOAL		• Conformance to Requirements • Zero Defects	• Zero Defects to Customers	• Conformance to Customer Requirements • Continuous Improvement	• Total Customer Satisfaction • Cycle Time Entitlement	• Industry Leader in Customer Satisfaction • 6 Sigma Quality • World Class Responsiveness
		1980 – 1983	**1984 – 1985**	**1986 – 1988**	**1989 – 1990**	**1991 – 1994**

Quality and Reliability

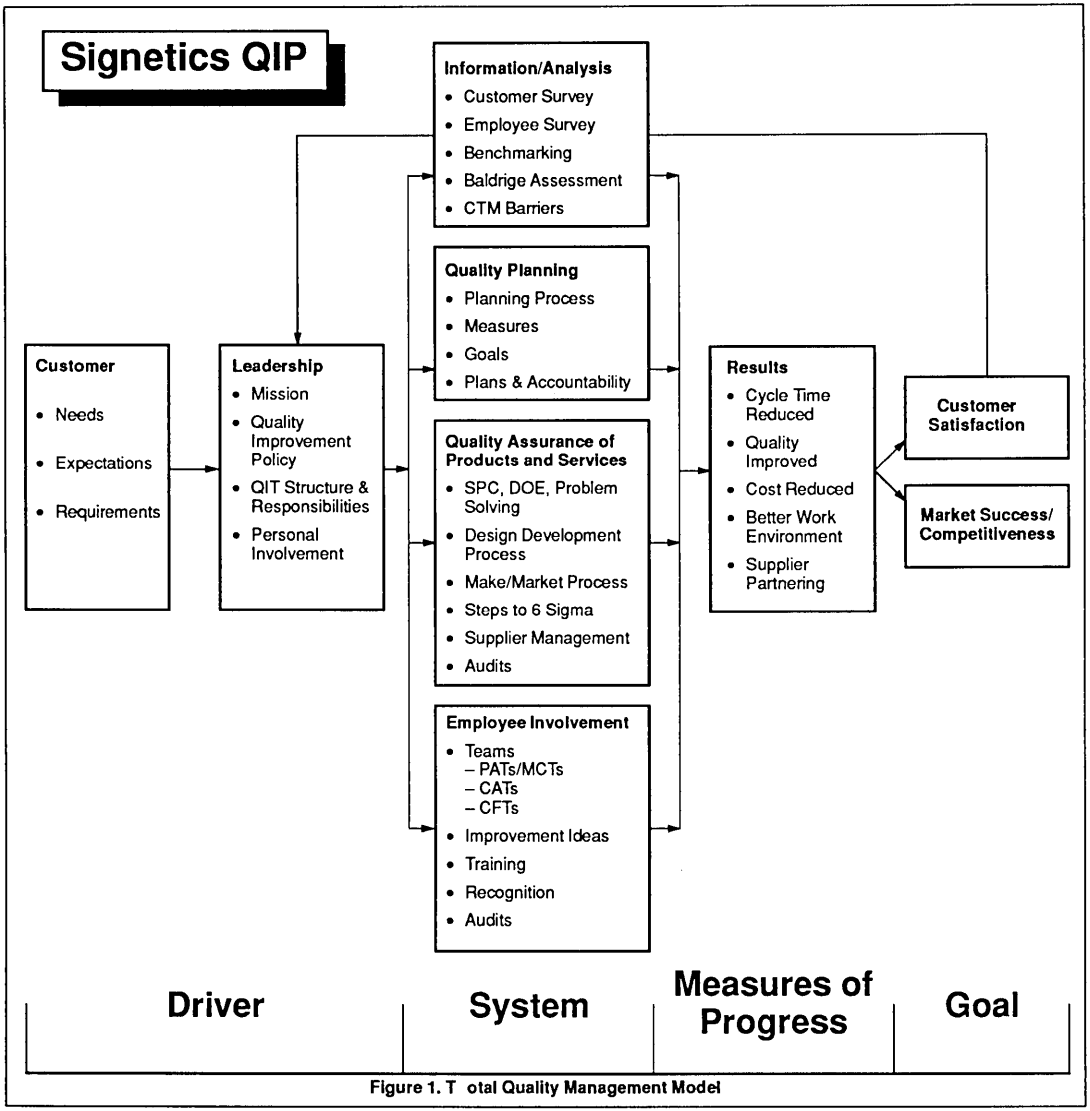


Figure 1. T otal Quality Management Model

CYCLE TIME MANAGEMENT (CTM)

Cycle Time Management efforts are focused on Design-Development Process Responsiveness and Make-Market Process Responsiveness. Both are aimed at reducing the cycle time of tasks from current performance (Baseline) to entitlement (Using Existing Resources) then to improved entitlement and theoretical limit. Design-Development focuses on getting the right products and processes to production within the market window interval. Make-Market concentrates on getting product into the customers hands within Customer Lead Time Requirements. Cycle time management directly links to quality improvement in its requirement for task barrier identification at the root cause level and removal of those barriers (e.g. eliminating causes of rejects thereby eliminating rework or product sort). Also, the acceleration of results from reducing cycle time increases the frequency of events thereby increasing the cycles of learning required for quality improvement.

Quality and Reliability

DESIGN FOR MANUFACTURABILITY (DFM) AND SIX SIGMA

A by-product of CTM application to the Design-Development Process (DDP) is the Signetics proprietary DDP manual introduced in January 1991 followed by Cross Functional Team (CFT) training. The DDP applies to all product, package and technology groups in Signetics. CFT's are used to drive the project from planning phase until all objectives of the new product contract are met. The requirements for SPC, DFM and meeting Six Sigma objectives are contained in the DDP manual. The CFTs are responsible for assuring that DFM occurs with an objective of Six Sigma. A Six Sigma design means that any desired characteristic of a part has a yield of 99.9997% or a defect rate of 3.4PPM (C_p of 2 or C_{pk} of 1.5)

QUALITY PERFORMANCE

Our Quality Improvement Process has influenced our entire production cycle - from the purchases of raw materials to the shipment of finished product. The involvement of all areas of the company has resulted in impressive quality improvements. A traditional quality gauge is final electrical and visual/mechanical product defect levels as measured upon first submittal results at outgoing Quality Assurance gates; Estimated Process Quality. This is the PPM Level at our outgoing inspection for all accepted and rejected lots. (See Figures Figure 2. and Figure 3..) Current product shipments routinely record below 20PPM (Parts Per Million) electrical defect levels and 150PPM visual/mechanical defect levels. Since we utilize zero accept sampling on all finished production inspection, any lot with one or more rejects is 100 percent rejected.

The most meaningful measure in our product quality is how we measure up to our customer's expectations. Many customers routinely send us incoming inspection data or ratings on our products and services. In 1991, Signetics also implemented a formal annual customer survey to solicit inputs on Signetics performance to the dimension of performance deemed relevant by the customer. Signetics is very appreciative of the recognition given by customers. Since 1986, Signetics has received over 70 formal commendation plaques from customers in recognition of Quality, Delivery and Service. Due to this type of performance, a number of our customers have eliminated expensive incoming inspection testing and have subscribed to the Ship-to-Stock Program. (See Figure Figure 4..)

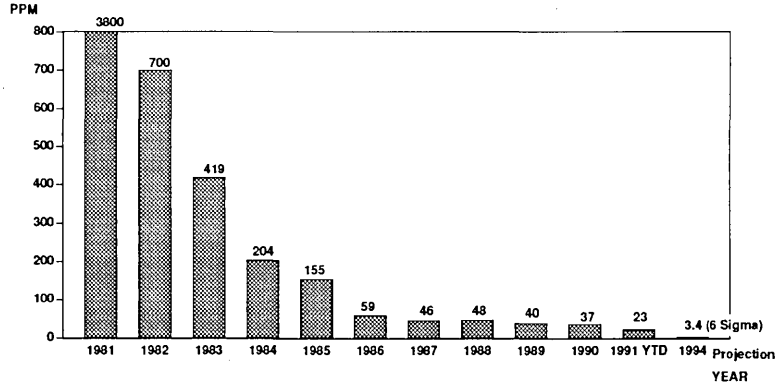


Figure 2. Electrical Product Quality Based on First Time Q.A. Submission Results

Quality and Reliability

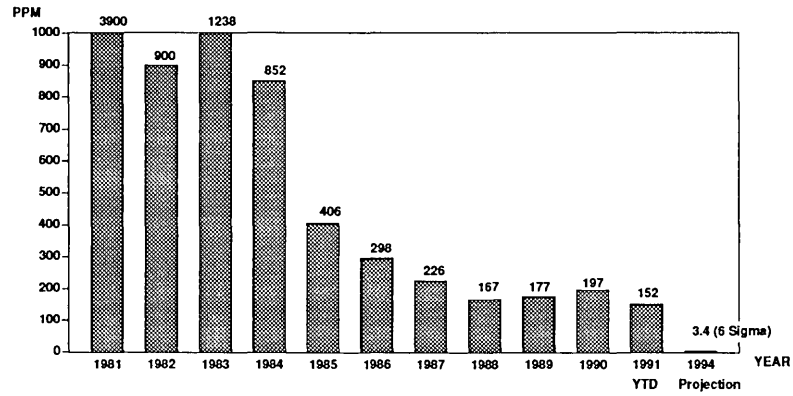
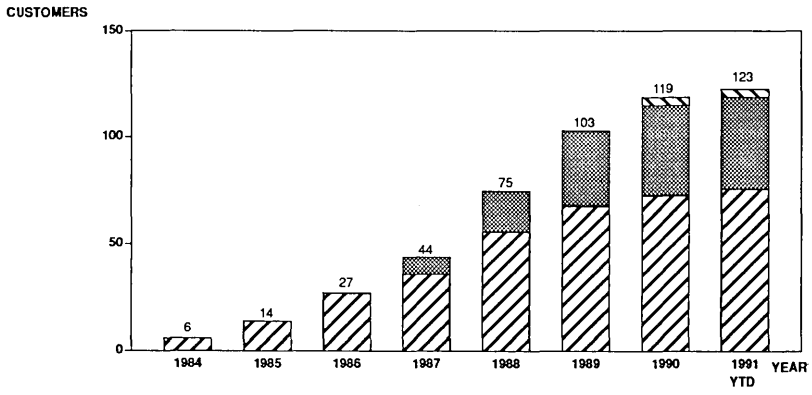


Figure 3. Visual/Mechanical Product Quality Based on First Time Q.A. Submission Results



	1984	1985	1986	1987	1988	1989	1990	1991 YTD
Asia Customers							4	4
Euro Customers				8	19	35	42	43
U.S. Customers	6	14	27	36	56	68	73	76

Figure 4. Signetics Ship-To-Stock Customer Growth

SHIP-TO-STOCK PROGRAM

Ship-to-Stock is a formal program developed at the request of our customers to help them reduce their costs by eliminating incoming test and inspection. Through close work with these customers in our quality improvement program, they became confident that our defect rates were so low that the redundancy of incoming inspections and testing was not only expensive, but unnecessary. They also saw that added component handling increased the potential of causing defects.

Quality and Reliability

Ship-to-Stock is a joint program between Signetics and a customer which formally certifies specific parts to go directly into the customer's assembly line or inventory. This program was developed at the request of several major manufacturers after they had worked with us and had a chance to experience the data exchange and joint corrective action occurring as part of our quality improvement program.

Manufacturers using large volumes of ICs, those who are evaluating Just-in-Time delivery programs, or those who want to reduce or avoid high-cost incoming inspection are strongly encouraged to participate in this worthwhile program. Contact your local sales representative for further assistance and information on how to participate in this program.

RELIABILITY ASSURANCE PROGRAMS

Focus on Product Reliability

From 1981 to 1984, continuing improvements in process and material quality had a significant impact on product reliability.

Since 1984, the company has intensified its effort to markedly improve product reliability. Corporate Reliability Engineering, Group and Plant Reliability Units and Manufacturing Engineering work jointly on numerous improvement activities. These focused activities enhance the reliability of future products by providing improved methods for reliability assessment, increased understanding of failure physics, advanced analytical techniques, and aid in the development of material and processes.

EARLY FAILURE RATE (EFR) FOCUS

In 1986 Signetics intensified the focus on Early Life Reliability because of the significant impact EFR failures have on end system reliability performance. This program, which has now become a standard element in our reliability monitoring activities, provides quality engineering with statistically significant definition of low level process related defects. From these data, focused failure mechanism corrective actions can be developed. Average EFR levels on a broad cross section of processes, have been reduced from 720FPM to less than 100FPM since the corrective action effort was initiated in 1986 (reference Figure Figure 5.). Details of that activity are available upon request.

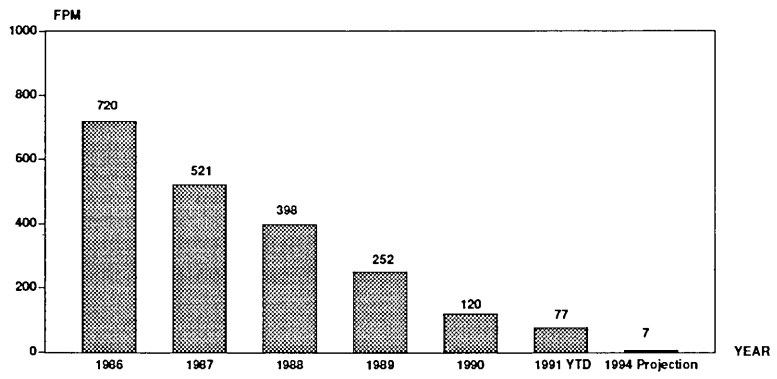


Figure 5. Signetics Early Failure Rate (EFR) Levels

RELIABILITY MEASUREMENT PROGRAMS

Comprehensive product and process qualification programs have been developed to assure that our customers are receiving highly reliable products for their critical applications. Additionally, ongoing reliability monitoring programs, SURE III and Product Monitor, sample standard production on a regularly established basis (see Table Table 2.).

Quality and Reliability

Table 2. Reliability Assurance Programs

Reliability Function	Typical Stress	Frequency
New Process Qualification	High Temperature Operating Life Temperature-Humidity, Biased, Static High Temperature Storage Life Pressure Pot Temperature Cycle	Each new wafer fab process
New Product Qualification	High Temperature Operating Life Temperature-Humidity, Biased, Static High Temperature Storage Life Pressure Pot Temperature Cycle Electrostatic Discharge Characterization	Each new product family
SURE III	High Temperature Operating Life Temperature-Humidity, Biased, Static Pressure Pot Temperature Cycle	Each fab process family, every four weeks
Product Monitor	Pressure Pot	Each plastic package type and technology family at each assembly plant, every week

DESCRIPTION OF STRESSES

High Temperature Operating Life

Static High Temperature Life (SHTL) stressing applies static DC bias to the device. This has specific merit in detecting ionic contamination problems which require continuous uninterrupted bias to drive contaminants to the silicon surface. The voltage bias must be maintained until the devices are cooled down to room temperature from the elevated life test temperature. Dynamic High Temperature Life (DHTL) stressing is not as effective in detecting such problems because the bias continuously changes, intermittently generating and healing the problem. For this reason, SHTL has typically been used as the accelerated life stress for Logic products. DHTL is useful for products such as memory and micro-processor/controller where a large portion of the area can only be accessed by dynamic means.

HTSL-High Temperature Storage Life

This stress exposes the parts to elevated temperatures (150°C-175°C) with no applied bias. For plastic packages, 175°C is the high end of its safe temperature region without accelerating untypical failure mechanisms. This test is intended to accelerate potential mechanical package-related failure mechanisms such as Gold-Aluminum bond integrity and other process instabilities.

THBS-Temperature-Humidity, Biased, Static

The accelerated temperature and humidity bias is performed at 85°C and 85% relative humidity (85°C/ 85% RH). In general, the worst case bias condition is the one which minimizes the device power dissipations and maximizes the applied voltages. Higher power dissipations tend to lower the humidity level at the chip surface and lessen the corrosion susceptibility.

TMCL-Temperature-Cycling, Air to Air

The device is cycled between the specified upper and lower temperature without power in an air or Nitrogen environment. Normal temperature extremes are -65°C and +150°C with a minimum 10 minute dwell and 5 minute transition per MIL-STD-883C, Method 1010.5, Condition C. This is a good test to measure the overall package to die mechanical compatibility, because the thermal expansion coefficients of the plastic are normally very much higher than those of the die and leadframe. However, for large die the stress may be too severe and induce failures that would not be expected in a real application.

PPOT-Pressure Pot

This stress exposes the devices to saturated steam at elevated temperature and pressure. The standard condition is 20 PSIG which occurs at a temperature of 127°C and 100% RH. The stress is used to test the moisture resistance of plastic encapsulated devices. The plastic encapsulant is not a moisture barrier and will saturate with moisture within 72 hours. Since the chip is not powered up the chip temperature and relative humidity will be the same as the autoclave once equilibrium is reached. Because the steam environment has an unlimited supply of moisture and ample temperature to catalyze thermally activated events, it is effective at detecting corrosion problems, contamination induced leakage problems, and general glassivation stability and integrity. It is also a good test for both package integrity (cracks in the package), and for die cracks (the moisture swells the plastic enough to stress the die; also the moisture causes leakage paths in the crack itself).

Quality and Reliability

PRODUCT AND PROCESS QUALIFICATION PROGRAMS

Qualification activity is centered around new products and processes and changes in products and processes. The goal is to assure that the products can meet the qualification requirements prior to general release, and on an ongoing basis to demonstrate conformance to those requirements. The nature and extent of reliability stressing required depends on the type of change and the amount of applicable reliability data available.

A full qualification may include Early Failure Rate (EFR), Intrinsic Failure Rate (IFR), and Environmental Endurance Stressing. Such stress plans are reserved for introductions or changes that involve new or untested material or processes and, as such should be subjected to the maximum reliability interrogation. This normally entails a full range of biased and unbiased temperature and humidity stresses along with thermo-mechanical stresses.

For changes that are of limited scope, the full range of qualification stressing may not be warranted. In these instances, the nature and extent of the change is examined and only those stresses which provide a valuable measure of the change, or those which will detect potential weakness, are performed.

SELF-QUAL PROGRAM (SQP)

Self-Qual, initiated in 1984, is a joint program between Signetics and a customer that formally communicates the qualification activities for a new or changed product, process, or material. The Self Qual process provides our customer's engineering groups an opportunity to participate in the development of the qualification plan. During the qualification process, customers may audit the project, and can receive interim updates of qualification progress. Upon completion, formal detailed engineering reports are provided.

The major impact to the customer comes from the reduced workload on the component engineering and qualification groups. These engineering resources generally divide their time between routine qualification activity and problem resolution on critical components. By eliminating the need to perform qualification for one of the basic supplier changes the customer component engineer can spend more of his time resolving the critical product issues. In addition, the total amount of stress hardware needed to perform qualification life tests and other environmental evaluations can be reduced, saving the customer facility costs and reducing operating expense.

Self-Qual is a no-risk proposition for the customer. Each Self-Qual proposal provides a detailed description of what we are changing and why. It includes a detailed plan of what we intend to do to establish the reliability of the products affected. If the customer wishes to have product added to the plan or select some additional stresses, or prefers alternative stress conditions, Signetics will do everything possible to accommodate those requests. After that, if the customer is still uncomfortable with the recommended change, they are under no obligation to accept our data, and they may also perform their own qualification program. Customers who are interested in participating in this program should contact their local sales representative or the Corporate Reliability Engineering department directly.

SURE III RELIABILITY MONITORING PROGRAM

In order to implement an improvement program, a standard measure of performance was needed. The results from the SURE III Reliability Monitoring Program are used as basic ongoing measures of product reliability performance. This program samples all generic families of products manufactured and utilizes standardized stress methods and test procedures. A measurement philosophy was adopted based on the premise of continual improvement toward our performance standard of zero defects. We also increased our standard Pressure Pot stress conditions from 15 PSIG/121°C to 20 PSIG/127°C. This reduced stress duration from 168 hours to 72 hours, and increased high volume sampling, which increased sensitivity to low defect levels. Our standard monitoring program, SURE III, includes the stress conditions as described in Table Table 3.. The continuous improvement results are shown in Figure Figure 6. Signetics Reliability Index as Failure Per Million (FPM). The FPM value includes all rejects from all accelerated stresses divided by total units submitted to all stresses. This is a relative number used to manage continuous reliability improvement. It should not be interpreted as an expected failure rate. Failure rate information is provided in the Signetics Product Reliability Summary Report available to all customers. In addition, the Signetics Reliability Handbook and the Signetics Process Technology and Manufacturing Facility Roadmap publications further define the rationale for methods used and the formation of process, product and package families.

Quality and Reliability

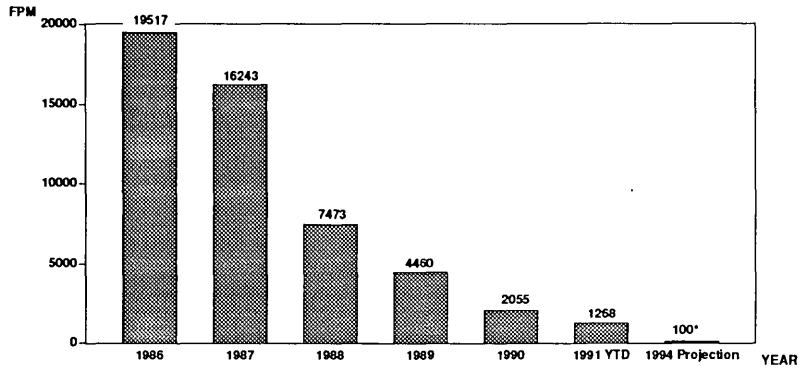


Figure 6. Signetics Reliability Index

Table 3. SURE III Reliability Monitoring Program

Reliability Function	Stress Conditions	# UNITS
Static High Temperature Operating Life (SHTL)	$T_j \geq 150°C$, T_{amb} = 125°C to 150°C, Biased condition = Static, V_{CC} = MAX, Duration = 1000 hours	135/150 Monthly
Temperature-Humidity, Biased, Static (THBS)	T_{amb} = 85°C ± 3°C, Humidity = 85% RH ± 5%, Biased condition = Static, V_{CC} = MAX, Duration = 1000 hours	100 Monthly
Temperature Cycling (TMCL)	T_{amb} = -65°C (+0°C -10°C) to +150°C (+10°C -0°C), Air-to-Air, Dwell time = 10 minutes minimum each extreme, Biased condition = None, Duration = 1000 cycles for plastic package, 300 cycles for ceramic package	100 Monthly
Pressure Pot	T_{amb} = 127°C ± 2°C, 20 PSIG ±0.5 PSIG (PPOT). 100% saturated steam, Biased condition = None, Duration = 72 hours	100 Weekly
		435/450 per Family

NOTE: V_{CC} = MAX is generally equal to V_{CC} = MAX as specified in data handbook

PRODUCT MONITOR

In addition to the SURE III program, each assembly plant performs Pressure Pot (20PSIG, 127°C, 72hours) reliability monitors on a weekly basis for each molded package type by pin count. The purpose of this program is to monitor the consistency of the assembly operations for such attributes as molding quality and die attach and wire bond integrity. This data is reported back to manufacturing operations and corporate and group reliability and quality assurance departments by electronic mail each week.

Quality and Reliability

RELIABILITY EVALUATION

In addition to the product performance monitors encompassed in the SURE III program, Corporate and Group Reliability Engineering departments sustain a broad range of evaluation and qualification activities. Included in the engineering process are:

- Evaluation and qualification of new or changed materials, assembly/wafer-fab processes and equipment, product designs, facilities, and subcontractors.
- Devices or generic group failure rate studies.
- Advanced environmental stress development.
- Failure mechanism characterization and corrective action/prevention reporting.

The environmental stresses utilized in the engineering programs are similar to those utilized for the SURE III program; however, more highly accelerated conditions and extended durations typify these engineering projects. Additional stress systems such as biased pressure pot, power-temperature cycling, and cycle-biased temperature- humidity, are included in some evaluation programs.

STRESS FACILITY QUALITY

Quality improvement has reached all functional areas of the company, and the reliability stress laboratories are no exception. Corporate Reliability Laboratory (CRL) is one of the many areas where the benefits of the quality improvement process pays repeated dividends.

CRL utilizes stress which accelerate failure rates hundreds to thousands of times, requiring precision and control to make reliability data meaningful. Stress loading schedules are maintained with absolute regularity and chambers are never off-line beyond scheduled loading plans. Board currents are recorded prior to and at each interval on biased stresses, and monitoring of in-oven currents is conducted daily.

Thermal modeling of the Temperature Cycling systems has been accomplished and all loads are carefully weighed to ensure that thermal ramps are consistent.

Pressure Pot and Biased Pressure Pot systems utilize microprocessor controllers, and are accurate to within 0.1 degree centigrade. Saturation is guaranteed via automatic timing circuits, and a host of fail-safe controls ensure that test groups are never damaged.

Electrostatic discharge (ESD) handling precautions are standard procedures in the laboratories, and the occurrences of devices lost, zapped, or overstressed have become almost non-existent.

MANUFACTURING FACILITIES

Signetics, as part of a multinational corporation, utilize manufacturing facilities for wafer fabrication, package assembly, and test in three states and six overseas countries as shown in Table Table 4.. Wafer fabrication is performed in fabs which report to the Product Groups. Assembly operations in Utah, Korea, and Thailand report to the Vice President of Assembly Manufacturing Operations (AMO). Assembly subcontractors are scheduled and controlled through the AMO organization. Assembly subcontractors process all product to Signetics' specifications and materials. We have on-site quality assurance personnel at each subcontractor site to audit assembly processes and procedures.

TYPICAL IC MANUFACTURING FLOW

The manufacturing process for integrated circuits begins with wafer fabrication. The wafers are then electrically sorted, assembled, and tested prior to customer shipment. Quality assurance inspections are utilized throughout the manufacturing process.

Quality and Reliability

Table 4. Product Manufacturing

FACILITIES	DESIGNATION	LOCATION	PROCESS OR PACKAGE FAMILIES
Wafer Fabrication	Fab 01	Sunnyvale, California, USA	Bipolar, Linear, Junction Isolated and Quality Assurance
	Fab 21	Orem, Utah, USA	Bipolar Gold Doped, Schottky, Oxide Isolated, ECL, PLD and Quality Assurance
	Fab 22	Albuquerque, New Mexico, USA	NMOS, CMOS, ACMOS, BiCMOS, EPROM and Quality Assurance
	Fab 23	Albuquerque, New Mexico, USA	CMOS EPROM, Flash EPROM, BiCMOS, and Quality Assurance
	MOS #2	Nijmegen, The Netherlands	HC(T) CMOS Logic and Quality Assurance
Assembly	Alphatec	Bangkok, Thailand	Ceramic DIP and Quality Assurance
	Anam	Seoul, Korea	Plastic SO, PLCC, Metal Can and Quality Assurance
	ASAT	Hong Kong	Plastic QFP, SO, and Quality Assurance
	HANA	Thailand	Plastic DIP and Quality Assurance
	Hyundai	Ichon, Kyungki, Korea	Plastic DIP, Ceramic DIP and Quality Assurance
	MEC	Osaka, Japan	Plastic SO EIAJ, QFP and Quality Assurance
	Orem	Orem, Utah, USA	Ceramic DIP, Flat Pack, QFP, PGA and Quality Assurance
	Pebei	Kaosiung, Taiwan	Plastic DIP, SO, SSOP, PLCC, and Quality Assurance
	SigKor	Seoul, Korea	Plastic DIP, SO, PLCC, and Quality Assurance
	Sig Thai	Bangkok, Thailand	Plastic DIP, SO, and Quality Assurance
	Team	Manila, Philippines	Plastic DIP and Quality Assurance
	Rohm	Kyoto, Japan	Plastic QFP and Quality Assurance
Test	TA05	Sunnyvale, California, USA	Wafer Sort, Final Test and Quality Assurance
	SigKor	Seoul, Korea	Final Test and Quality Assurance
	SigThai	Bangkok, Thailand	Final Test and Quality Assurance
	Albuquerque	Albuquerque, New Mexico, USA	Wafer Test and Quality Assurance
	Orem	Orem, Utah, USA	Wafer Test, Military Final Test and Quality Assurance

Table 5. Package Construction

ITEMS	PLASTIC DIP	SO and PLCC	CERAMIC DIP(CERDIP)	CERAMIC FLAT PACK
Lead Frame	Copper, 194 Alloy	Copper, 194 or PMC102	Alloy-42	Alloy-42
Lead Finish	Tin/Lead Solder Dip (60/40)	Tin/Lead Solder Dip (60/40) or Solder Plate (80/20)	Tin/Lead Solder Dip (60/40)	Tin/Lead Solder Dip (60/40)
Bond Area Finish	Silver Spot	Silver Spot	Silver Spot	Silver Spot
Die Attach	Silver Filled Polymide or Thermoplastic	Silver Filled Polymide or Thermoplastic	Silver Filled Glass	Silver Filled Glass
Bond Wire	Gold, 1.0-1.3 mils in Diameter	Gold, 1.0-1.3 mils in Diameter	Aluminum, 1.0-1.3 mils in Diameter	Aluminum, 1.0-1.3 mils in Diameter
Wire Bonding Die Lead Frame	Thermosonic Ball Stitch	Thermosonic Ball Stitch	Ultrasonic Stitch Stitch	Ultrasonic Stitch Stitch
Package Material	Novolac Epoxy	Novolac Epoxy	Ceramic	Ceramic

SPECIAL PROCESSING

SUPR II LEVEL B –

For our customers who require an infant mortality rate level less than that normally provided for our standard products (typically less than 1000PPM), we offer our Signetics Upgraded Product Reliability (SUPR) program.

Devices are burned-in per Signetics specification 850-227 schematics for a minimum of 21 hours at junction temperature between 155°C to 175°C. For a 1.0eV activation energy, 21 hours at 155°C is equivalent to 168 hours at 125°C.

Quality and Reliability

Following burn-in, all devices are cooled down under bias and tested within 96 hours. All devices are tested before and after burn-in, yield calculated and compared to Percent Defective Allowed (PDA). If a lot fails PDA, it is investigated and good units submitted to a second burn-in. All "SUPR II B" devices carry a "B" marking.

The SUPR program was introduced in 1972 to improve quality and reliability and was expanded in 1975 to SUPR II A which included the burn-in option, SUPR II B. With the implementation of the Signetics Quality Improvement Process in 1980, standard product quality levels and guarantees caught up and passed SUPR II. All processing, except for burn-in, is now standard. The Signetics standard warranty is Zero Defects.

"Evaluation of Early Failure Levels and The Effectiveness of Burn-In" is available upon request through your local sales office. This brochure is an aid for those users and purchasers of integrated circuits who need to make a decision regarding burn-in.

PUBLICATIONS

Signetics routinely publishes documents supporting the Quality and Reliability Improvement Process. The following significant documents are currently available.

IC Quality Series

***Quality and Reliability Policy Manual* (850-8000)**

This manual is the starting point for understanding the policies of Signetics pursuant to constantly improving the high standards of quality and reliability in the manufacture of monolithic integrated circuits. Responsibilities and authority of organizations are defined along with governing specifications and operator instruction documents.

Signetics Total Quality Management

This booklet describes the TQM model, patterned after the U.S.A. Malcom Baldrige National Quality Award criteria and how the model is applied to the Signetics Quality Improvement Process.

Supplier Partnership Guide

This booklet defines Signetics philosophy, policy and requirements for establishing strategic partnerships with raw material suppliers.

Product Symbol Formats

This publication provides a guide for determining standard product symbol format and content for decoding inventory and product in field usage since 1980. Since date code 8717, Signetics has symbolized the assembly start computer Lot ID on commercial products providing full traceability back to start of wafer fabrication.

Quality Attributes EDI System

This manual defines system requirements for Electronic Data Interchange (EDI) of Quality Attributes (pass/fail) Data.

Monthly Product Outgoing Quality Summary Reports

Estimated Process Quality (EPQ) in PPM for electrical, visual/ mechanical and hermeticity by part number or by family.

Statistical Process Control

This booklet introduces the Signetics SPC system including terminologies, philosophy, organization, training and implementation strategy and status.

Ship-To-Stock Program

This booklet defines the "joint program" requirements of Signetics and the customer to formally certify specific products to go directly into the assembly line or inventory with reduced or no incoming inspection thereby reducing cost of ownership.

Customer Return Immediate Service Program (CRISP)

This booklet defines the joint responsibilities of Signetics and the customer to assure that correlation samples are investigated and results reported per the Signetics 1-4-5 cycle time commitments.

Quality and Reliability Improvement Process

This booklet tells the story of the 1980 Signetics Quality Improvement Program evolving into the Quality Improvement Process (QIP) which is the foundation of all Signetics efforts aimed at total customer satisfaction. The March 1988 publication describes the story. More recent booklets contain updated foils only, without much text.

IC Reliability Series

Signetics Reliability Handbook

This handbook is a detailed guide to Signetics Reliability Qualification and Monitoring activities. It includes reference sections that deal with the application and statistics of integrated circuit reliability issues.

Quality and Reliability

Product Reliability Summary
Yearly, SURE III monitoring data is summarized and published for all product families in a Product Reliability Summary. Summaries like this one provide a detailed overview of product family performance and estimates the reliability of those products in use conditions.

Quarterly Reliability Update
Detailed results, by part number, package type, date code, assembly location, and by stress and test interval are routinely published in the Signetics Quarterly Reliability Update. The "Update" is available at the end of each quarter, and contains the results of reliability monitors which completed during the previous quarter, plus approximately 3 years of history for each product family.

SMD Reliability (The Reliability and Durability of Surface Mount Packages)
In support of Signetics' leadership in Surface Mount Device (SMD) technology, we have published in-depth studies and evaluations on the reliability and durability of SMD packages. The Surface Mount Reliability report covers evaluation of products after exposure to the unique environments created by various SMD soldering and cleaning processes.

Process Technology and Manufacturing Facility Roadmap
This document defines the various process technologies in production in Signetics manufacturing facilities, and defines in detail, the fab and assembly processes and locations qualified to produce all released products.

Thermal Characteristics of Integrated Circuit Packages
This is a comprehensive collection of thermal characterization data for all packages manufactured by Signetics. Thermal resistance data to *Case*, and to *Ambient* are provided. Details on airflow effects and die size are included.

SSQP – Signetics Self-Qual Program-Reports
In addition to the regular publications of reliability monitor results, a special program for the publication of qualification proposals and final engineering reports has been in place since January of 1984. Self-Qual Reports are available on all major process changes and introductions, thereby reducing customer cost of ownership.

Evaluation of Early Failure Levels and the Effectiveness of Burn-In
This report provides results of the Signetics Early Failure Rate (EFR) program implemented in 1986 to identify and eliminate root causes of infant mortality and to aid users of IC components faced with a decision regarding Burn-In of purchased integrated circuits.

DATA AVAILABILITY

The previously referenced documents are available to all our customers. Many are available in your local sales office, or from:

Corporate Quality System Group
Mail Stop #35
811 East Arques Avenue
P. O. Box 3409
Sunnyvale, CA 94088-3409, USA

where you can be placed on a standard mailing list for all documentation which meet your requirement(s).

I²C-Bus ICs

I²C-BUS ICs (INTER INTEGRATED CIRCUIT BUS) – AN EXTENSIVE RANGE OF ICs WITH SIMPLE SERIAL INTERFACING

Our I²C-bus ICs represent an industry breakthrough in the field of microcontroller technology. Designed to exploit the similarities of various system designs in telecommunications, industrial electronics and consumer electronics, the I²C-bus concept is based on a 2-wire serial bus protocol.

On-chip interfacing allows the ICs to communicate directly with each other through a simple bidirectional 2-wire inter-IC bus (hence the term I²C-bus).

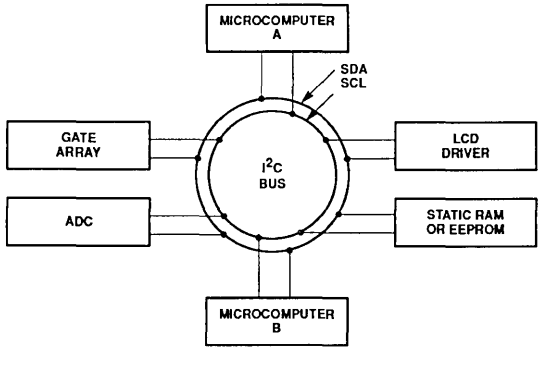
The I²C-bus ICs also solve the problem of interfacing digital control systems with more than one microcontroller, which is inherent to the digitalization that takes place in consumer products. And you also benefit greatly from such features as:

- Serial, bidirectional data transfers that can be made at up to 100kbits/s via only a data line (SDA) and a clock line (SCL)
- On-chip filtering which protects data from corruption by interference since it rejects frequencies above 100kHz
- The number of ICs that can be connected to the same 2-wire bus is limited only by a maximum bus capacitance of 400pF

DESIGNING A SYSTEM HAS NEVER BEEN EASIER

The I²C-bus circuits clip directly onto the I²C-bus without external interfacing. This allows you to modify or up-grade a system by adding or deleting functional blocks which correspond exactly to individual ICs. You can use the same ICs in many different applications. Large savings are made because the process:

- Simplifies stocking
- Cuts down on interconnecting and results in more competitively priced PCBs
- Requires fewer peripheral components
- Facilitates space saving to improve your manufacturing cost-effectiveness
- Improves system manufacturability by allowing for automated system alignment and adjustment
- Enhances system servicability and testability



Typical I²C Bus Configuration

Military Product Process Levels

JAN Class B Qualified Products – JAN Qualified products are manufactured, processed and tested in a government certified facility to Mil-M-38510, and appropriate device slash sheet specifications. Design documentation, lot sampling plans, electrical test data and qualification data for each specific part type has been approved by the Defense Electronic Supply Center (DESC) and products appear on the DESC Qualified Products List (QPL-38510).

Military Drawing Products – DESC Selected Item Drawings (DESC Drawings) are interim standards for use prior to the publication of a JAN device slash sheet. Military Drawings fulfill the same purpose as DESC Drawings but are streamlined by references to compliant non-JAN device types as defined by MIL-STD-883, Paragraph 1.2.1.

Signetics Class B Standard Product – Class B standard product conforms to MIL-STD-883, general provisions of Para 1.2.1 (and its sub-paragraphs), except where noted by the suffix NC in the product part number. No other claims, expressed or implied, are made of equivalence to JAN product or to MIL-M-38510. Para 1.2 is not subject to interpretation, deviations, or omissions by Signetics or its customers. This product also conforms with JEDEC Publication 101.

Full compliance to MIL-STD-883 para 1.2 is only guaranteed on compliant product with seal date codes of 8501 and later. Electrical test requirements are as stated in the most current Signetics Product Specification Data Sheet.

- 100% final electrical tests include all Product Specification Data Sheet parameter limits, test conditions, and temperatures applicable to Subgroups 1, 2, 3, 7, and 9 of MIL-STD-883, Method 5004 for digital products, or those subgroups applicable for Linear Products.
- Group A sample electrical inspection tests include all final electrical subgroups as well as all other Product Specification Data Sheet parameters with specified minimum or maximum limits.
- End point electrical tests used for QCI inspection sampling (Groups C and D) are those Product Specification Data Sheet parameter limits, test conditions, and temperatures applicable to Subgroups 1, 2, and 3 per MIL-STD-883, Method 5005, except for Linear products for which Subgroup 1 only is applicable.

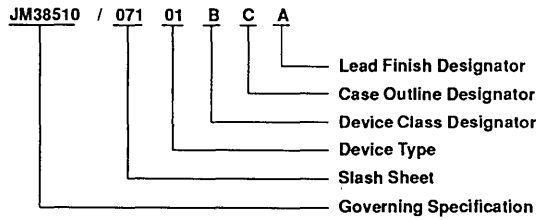
Signetics Standard Packages – All Military package case outlines and physical dimensions conform with the current revision MIL-M-38510, Appendix C, except for package types which are not included in that specification.

The physical dimensions for standard package types which are not included in Appendix C are assigned case outline letters according to JEDEC Publication 101 as follows: **U** = Leadless Chip Carriers; **X** = Dual-in-line packages; **Y** = Flat packages; **Z** = All other configurations.

A list of Signetics' products that are processed to Military specifications can be found within the Alphanumeric listing that begins on page 5-22.

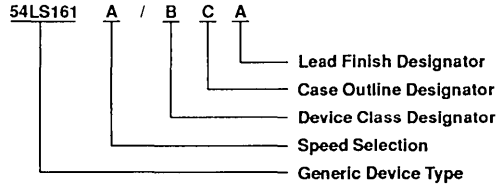
Signetics Military Product Reference Guide is also available through your local sales office.

For JAN products, the part number is per MIL-M-38510.

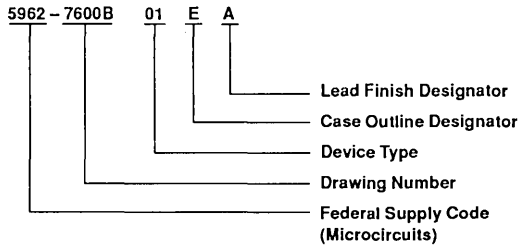


Military Product Process Levels

For standard product, the part number is as listed in this Price Book.



For Military Drawing products, the part numbers are per the Drawing.



NOTE: The first two digits of the Drawing Number are the last two digits of the year of issue.

Ordering Information

When ordering use the JM38510 slash number, DESC Drawing and Standard Military product number (e.g. JM38510/31504BEA, 5962-8607101CA, 54F181/BJA). These are listed in the 'PART NUMBER' column of the Price Book.

Data Handbook Order Form 1991

Data handbook orders cannot be accepted unless they are prepaid. A check or money order made payable to Signetics must accompany this request. All shipping and handling charges are included in the cost of the books. **No returns on chargeable items.** Mail completed form to:

Signetics Company
Publication Services, M/S 27
811 E. Arques Avenue
P.O. Box 3409
Sunnyvale, CA 94088-3409

Quantity	Stock #	Data Handbook Title	Price Each	Price Total
	98-1000-250	Data Communications Data Handbook 1991	$7.00	
	98-1900-000	Video Handbook, Media Components 1991	$7.00	
	98-2000-000	Linear Data Manual 1989, Volume 1: Communications	$8.00	
	98-2000-050	Linear Data Manual 1989, Volume 2: Industrial	$8.00	
	98-2000-290	RF Communications Data Handbook 1991	$7.00	
	98-2900-050	10/100K ECL (Logic/Memory/PLD) Data Handbook 1990	$7.00	
	98-2901-650	ABT Advanced BiCMOS Interface Logic Data Handbook 1991	$7.00	
	98-2915-400	FAST Logic Data Handbook 1989 (with 1990 Supplement)	$8.00	
	98-2996-020	ACL Data Handbook 1989 (with 1991 Supplement)	$7.00	
	98-3000-080	High-Speed CMOS Logic Family Data Handbook 1991	$8.00	
	98-4600-810	Military Products Handbook, Volume 2 1990	$7.00	
	98-4600-910	Military Products Handbook, Volume 1 1990	$7.00	
	98-6900-110	Memories (MOS, TTL, and ECL) Data Handbook 1991	$7.00	
	98-7001-230	Programmable Logic Devices (PLD) Data Handbook 1991	$7.00	
	98-8080-390	80C51 and Derivatives Microcontroller Data Handbook 1991	$7.00	
For possible complimentary copies of Signetics Data Handbooks, please contact your local Signetics Sales Representative.			**Subtotal**	
			Sales Tax (Calif. residents add 8.25%)	
			Total Amount	

Name _____

Company _____

Address _____

_____

City_____ State _____ Zip_____

MPC10/91

Product Spotlights

Index

Digital Audio/Video

Microcontrollers

Fixed Function Logic

Programmable Logic

Telecommunications/RF

Data Communications

Industrial

Memory (Military)

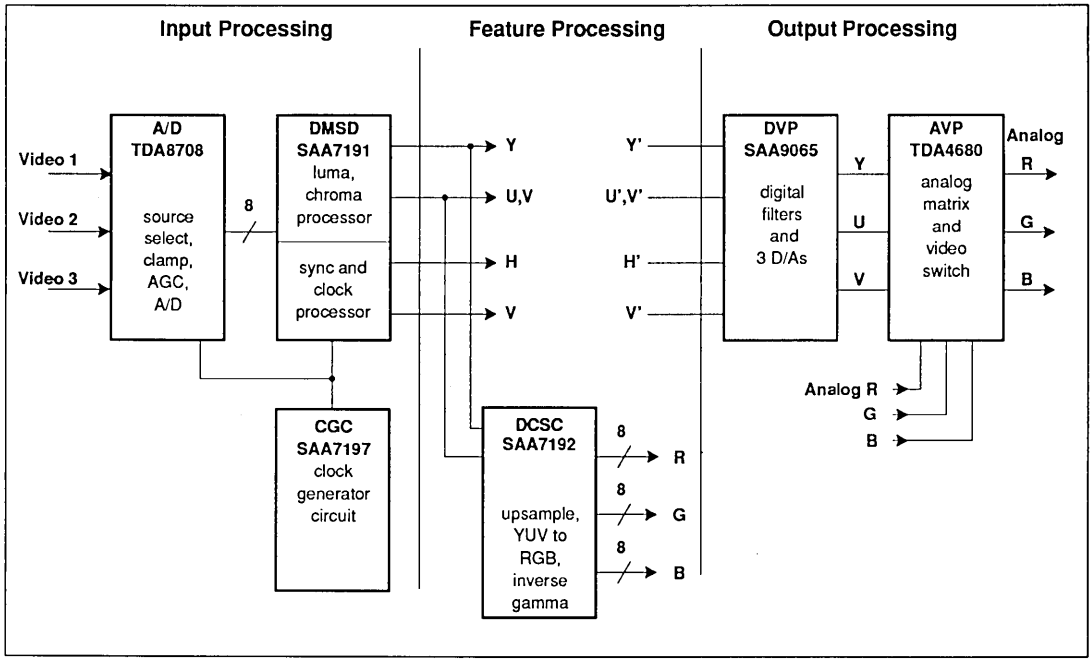
Product Spotlights

DIGITAL AUDIO/VIDEO

Desktop Video Chip Set

FEATURES
- Color video decoding
- Square pixels
- NTSC: 12.272727MHz, 640 pixels/line
- PAL, SECAM: 14.75MHz, 768 pixels/line
- 8 Bits Y:U:V 4:2:2
- Line-locked clock

BLOCK DIAGRAM



80C51 Microcontrollers for TV and Video

The MTV's screen refreshing is totally transparent to the CPU.

Signetics now offers more 80C51 derivatives than any other microcontroller supplier in the world. A recent addition is the 83C053/87C054, a highly integrated Microcontroller for Television and Video, called MTV for short.

The MTV serves as a universal solution for use wherever a video signal is present. It incorporates all the functions necessary to product attractive, flexible on-screen displays of characters and icons.

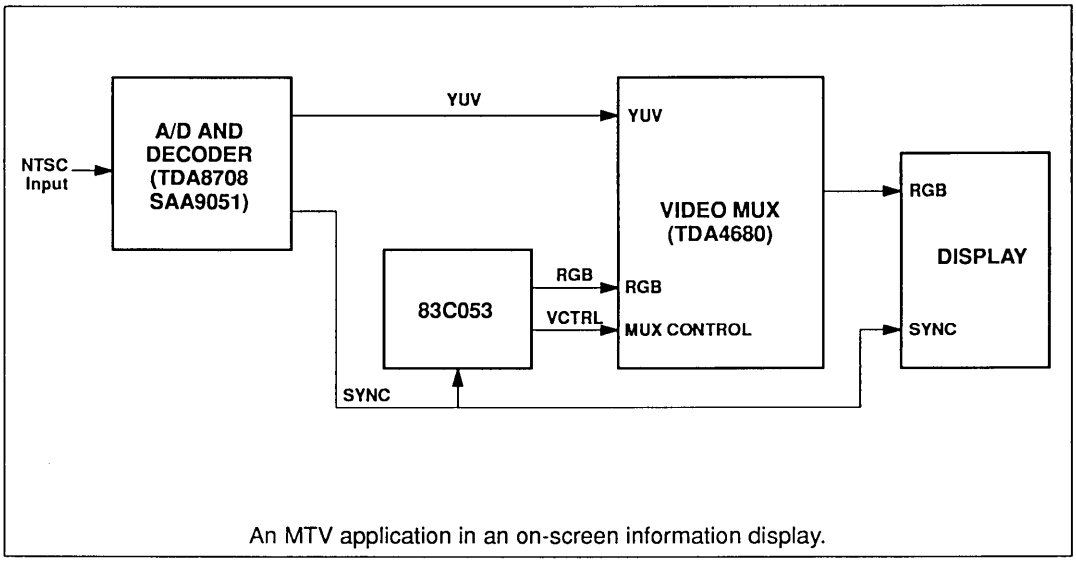
The device integrates a powerful 80C51 microcontroller, an on-screen display module, display RAM and character ROM, pulse-width modulated outputs and a software-driven analog-to-digital converter.

This product not only replaces the two or more chips typically required to perform character display and control, but also provides more functions and flexibility than alternative solutions. And unlike the leading competition, the MTV's screen refreshing is totally transparent to the CPU, leaving it free to perform other functions.

Display features include:

- 128-character free-format display, with flexible start positions and end-of-line carriage return.
- Eight shadow modes. Full and partial character outlining to improve readability on light backgrounds.
- Choice of character colors on a character-by-character basis.
- Choice of background color or video on a character-by-character basis.
- Double-height, double-sized and condensed characters.
- Underlining capability.
- Programmable video polarities

Popular MTV applications include televisions and television systems such as VCRs, camcorders, medical imaging, industrial imaging, security systems, hotel in-room displays and video editing equipment.



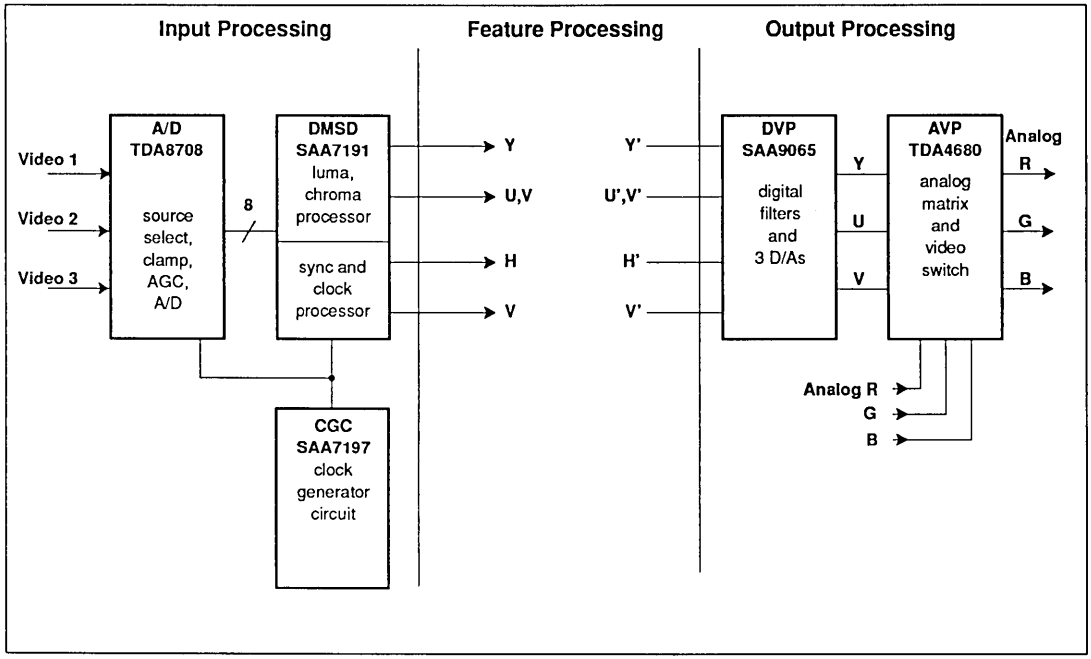
An MTV application in an on-screen information display.

Product Spotlights

Consumer Video Chip Set

FEATURES
- Color video decoding
- 13.5MHz, 720 pixels/line
- 7 Bits Y:U:V 4:1:1
- PAL, NTSC

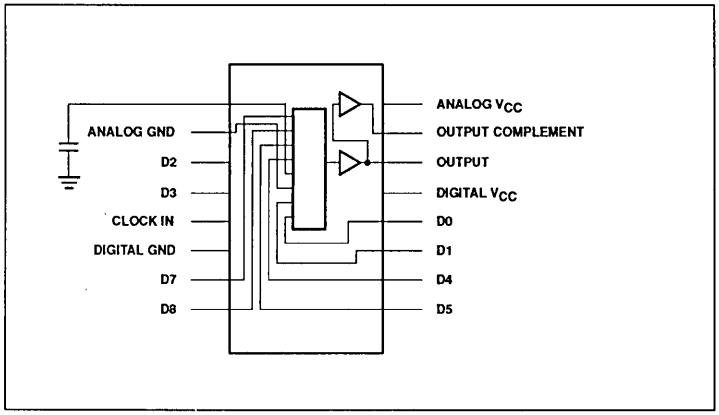
BLOCK DIAGRAM



TDA8702 – 8-Bit Digital-to-Analog Converter

FEATURES
- 30MHz
- 250mW power dissipation
- Connects in a Flash

DIAGRAM



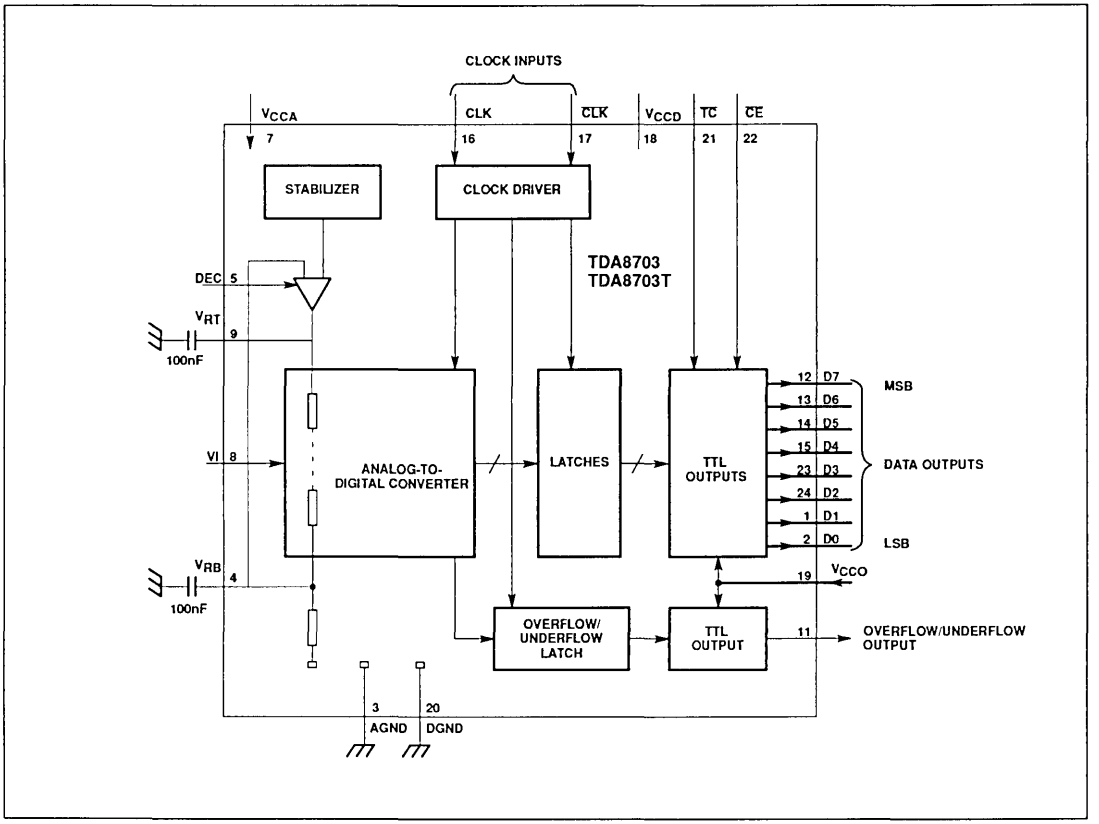
Product Spotlights

TDA8703/TDA8703T – 8-Bit High-Speed Analog-to-Digital Converter

FEATURES

- 8-bit resolution
- Sampling rate up to 40MHz
- High signal-to-noise ratio over a large analog input frequency range (7.1 effective bits at 4.43MHz full-scale input)
- Binary or two's complement 3-state TTL outputs
- Overflow/underflow 3-state TTL output
- TTL compatible digital inputs
- Low-level AC clock input signal allowed
- Internal reference voltage generator
- Power dissipation only 290mW (typical)
- Low analog input capacitance, no buffer amplifier required
- No sample and hold circuit required

BLOCK DIAGRAM



Product Spotlights

TDA8708 – 8-Bit Analog-to-Digital Converter for Composite Video, Luminance

FEATURES

- Sampling rate up to 30MHz
- Binary or two's complement 3-State TTL outputs
- Clamp and automatic gain control for composite video, blanking, synchronization, and luminance
- Three selectable inputs

TDA8709 – 8-Bit Analog-to-Digital Converter for Chrominance

FEATURES

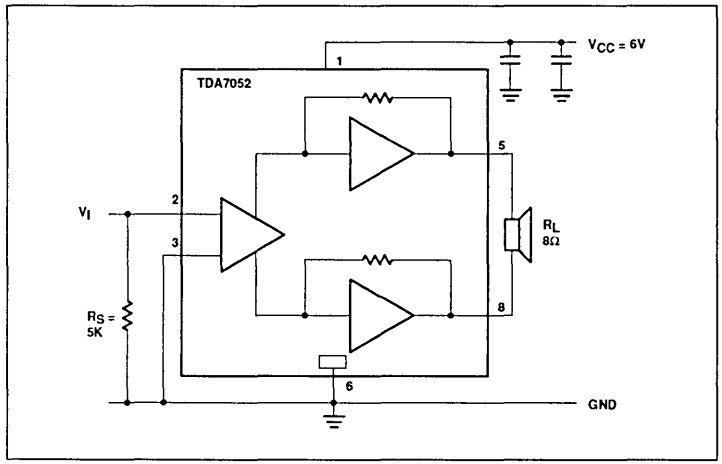
- Sampling rate up to 30MHz
- Clamp to "16" or "128"
- Three selectable inputs

TDA7052 – 1 Watt Low Voltage Audio Power Amplifier

FEATURES

- No external components
- No switch-on or switch-off clicks
- Good overall stability
- Low power consumption
- No external heatsink rquired
- Short-circuit proof

LOGIC DIAGRAM



SAA7322/23 – Stereo Bitstream D/A Converter with Digital Filter

FEATURES

- Oversampling digital filter
- Bitstream 16-bit DAC
- Op amps for post filters
- De-emphasis network
- Dynamic range >93dB
- Requires no external adjustments
- Single 5V operation
- CMOS technology
- I_SS input format
- 44-pin quad flat pack

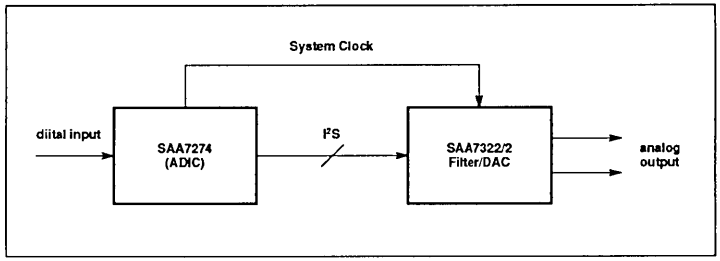
Product Spotlights

SAA7274 – Audio Digital Input Circuit (ADIC)

FEATURES

- I^2S bus output
- Biphase audio signal (Satellite radio, compact disc and DAT)
- Converts digital audio signals in accordance with the IEC/EBU standards

SYSTEM SOLUTIONS

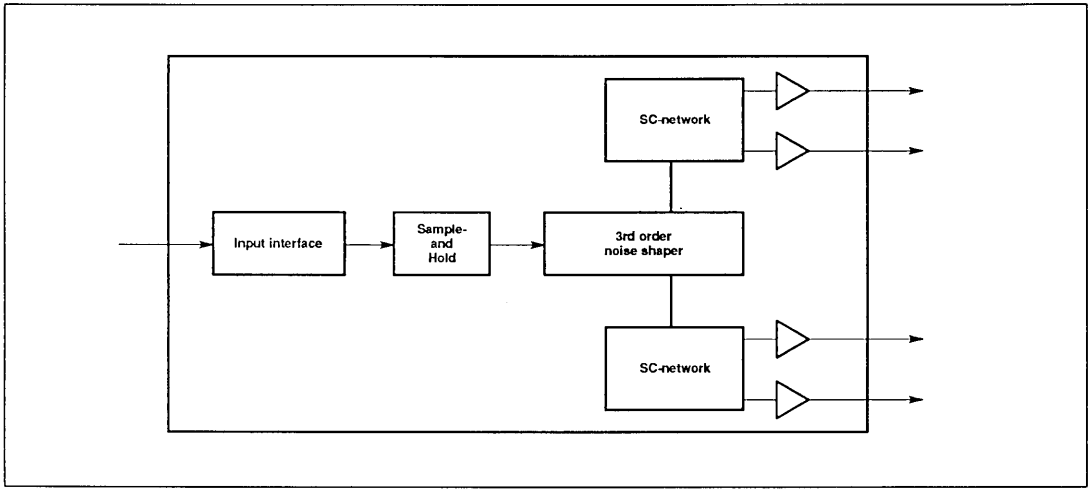


SAA7350 – 20-Bit Stereo Bitstream Digital-to-Analog Converter

FEATURES

- 20-bit resolution DAC
- 3rd order noise shaper
- Wide range of sampling rates
- Accepts variety of interface formats
- Differential mode output
- 5V single supply operation
- CMOS technology
- 44-pin quad flat pack

BLOCK DIAGRAM



80C51 Family Continues to Grow

Signetics has extended the dimensions of performance of its 80C51 microcontroller family with the recent introduction of the 87C52 with 8K bytes EPROM, the 80C52 with 8K bytes ROM and the 80C32 without memory.

These new products demonstrate Signetics' commitment to continued expansion of its popular 80C51 family. In just one year the company has more than doubled its number of derivatives. Such a wide selection of derivatives from which to choose allows engineers to design across a broad range of product requirements. Everything from very basic applications to those requiring complex computation, A/D and sophisticated timing can be handled.

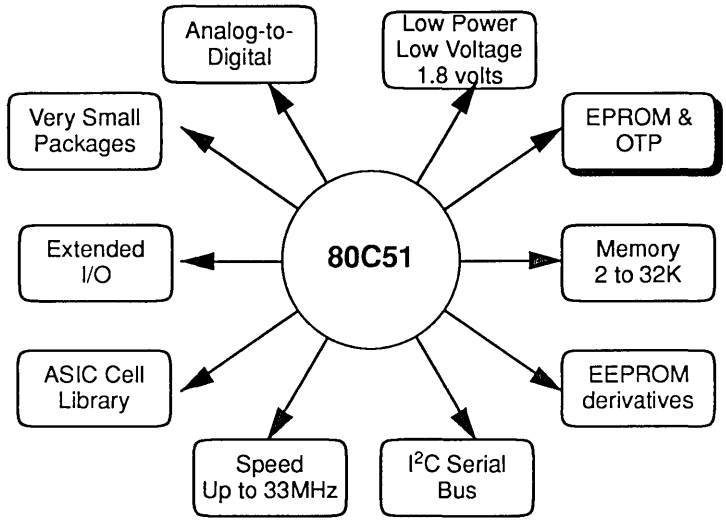
Signetics' wide variety of 80C51 derivatives allows engineers to continue enhancing their product functionality and performance without changing software and development tools.

Signetics' wide variety of 80C51 derivatives allows engineers to continue enhancing their product functionality and performance without changing software and development tools.

The 8XC52 serves 8-bit users who may need more memory, increased functionality, or reduced space - - all from an affordable product. It is ideal for designers already using 80C51-family components in their products, as well as those developing new products from scratch.

The 87C52, 80C52 and 80C32 are available in several package options, including Quad Flat Packs (QFPs), which enable board space reductions of 50 to 80 percent.

The 8XC52 doubles the on-chip memory of the 8XC51 to 8K bytes of EPROM or ROM and 256-bytes of RAM. It includes an additional 16-bit timer, for a total of three. These added features result in improved performance and increased functionality without design modifications.



Signetics offers the most 80C51 derivatives in the world.

Product Spotlights

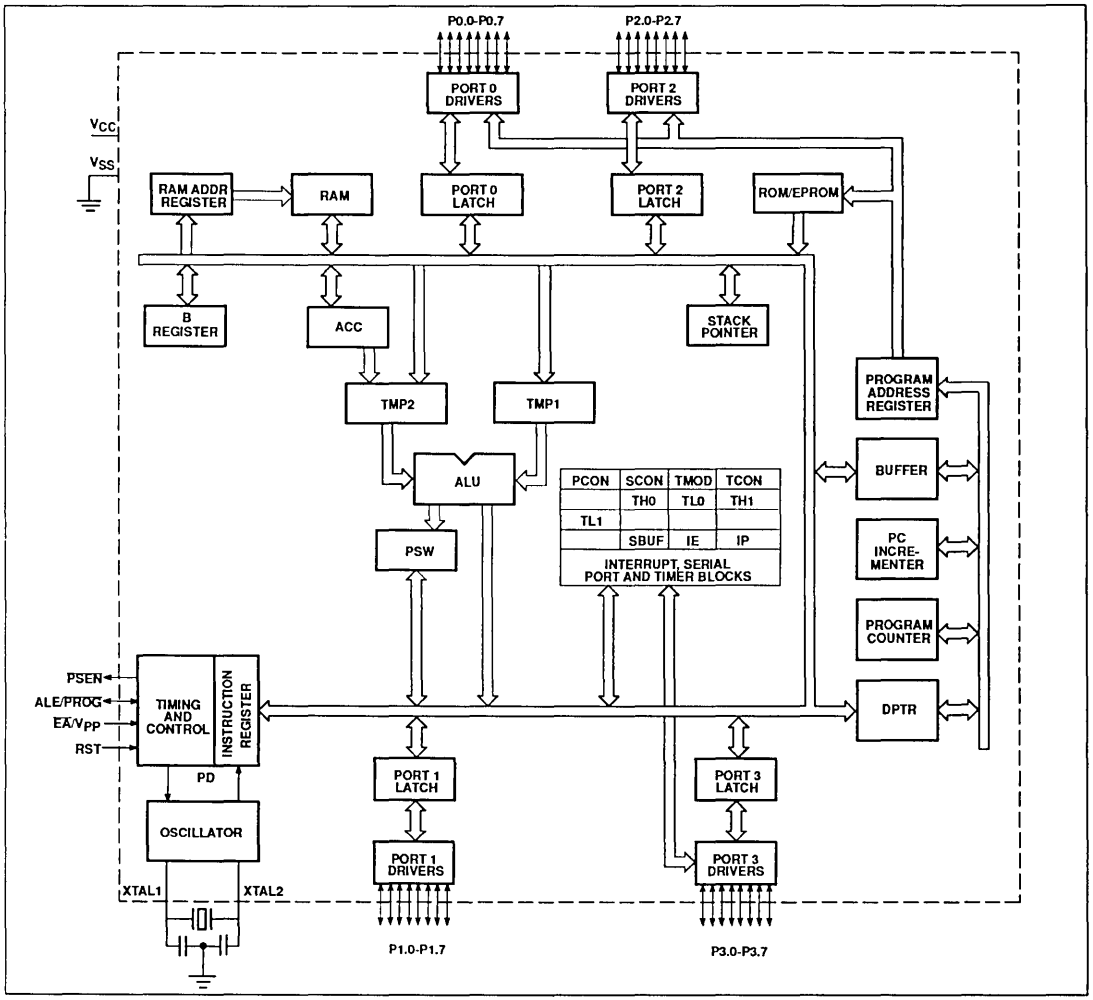
MICROCONTROLLERS

80C31/80C51/87C51 – CMOS Single-Chip, 8-Bit Microcontroller

FEATURES

- 8031/8051 compatible
  - 4K × 8 ROM (80C51)
  - 4K × 8 EPROM (87C51)
  - ROMless (80C31)
  - 128 × 8 RAM
  - Two 16-bit counter/timers
  - Full duplex serial channel
  - Boolean processor
- Memory addressing capability
  - 64K ROM and 64K RAM
- Power control modes:
  - Idle mode
  - Power-down mode
- CMOS and TTL compatible
- Five speed ranges at V_{CC} = 5V
  - 12MHz, 16MHz, 20MHz, 24MHz, 30MHz
- Five package styles
- Extended temperature ranges
- OTP package available

BLOCK DIAGRAM



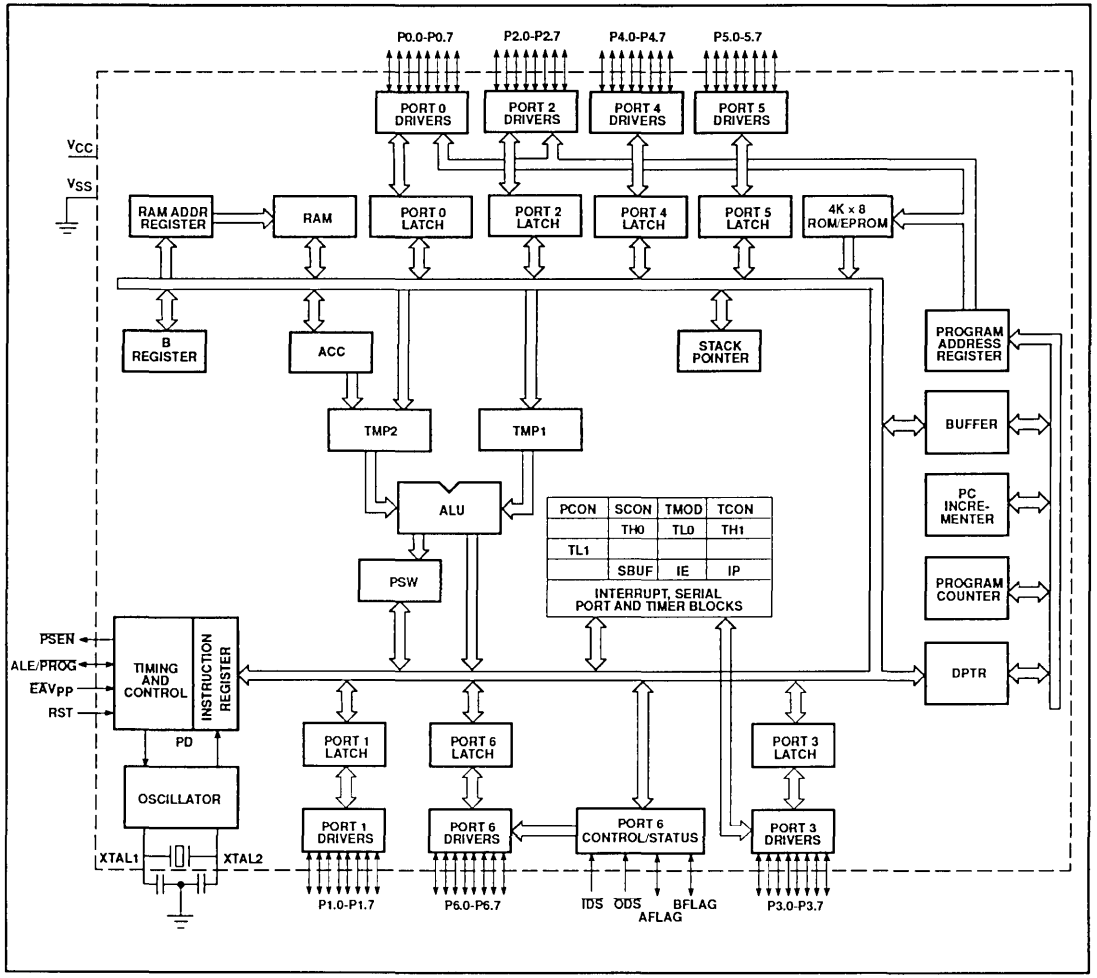
Product Spotlights

80/83/87C451 – CMOS Single-Chip, 8-Bit Microcontroller

FEATURES

- 80C51 based architecture
- 68-pin PLCC and 64-pin DIP packages:
  - Seven 8-bit I/O ports (PLCC version)
  - Six 8-bit ports and one 4-bit port (DIP version)
- Port 6 features:
  - 8 data pins
  - 4 control pins
  - Direct MPU bus interface
  - Parallel printer interface
- On the microcontroller:
  - 4K × 8 ROM (83C451)
    4K × 8 EPROM (87C451)
    ROMless version (80C451)
  - 128 × 8 RAM
  - Two 16-bit counter/timers
  - Two external interrupts
- External memory addressing capability
  - 64k ROM and 64k RAM
- Low power consumption:
  - Normal operation: less than 24mA at 5V, 12MHz
  - Idle mode
  - Power-down mode

BLOCK DIAGRAM



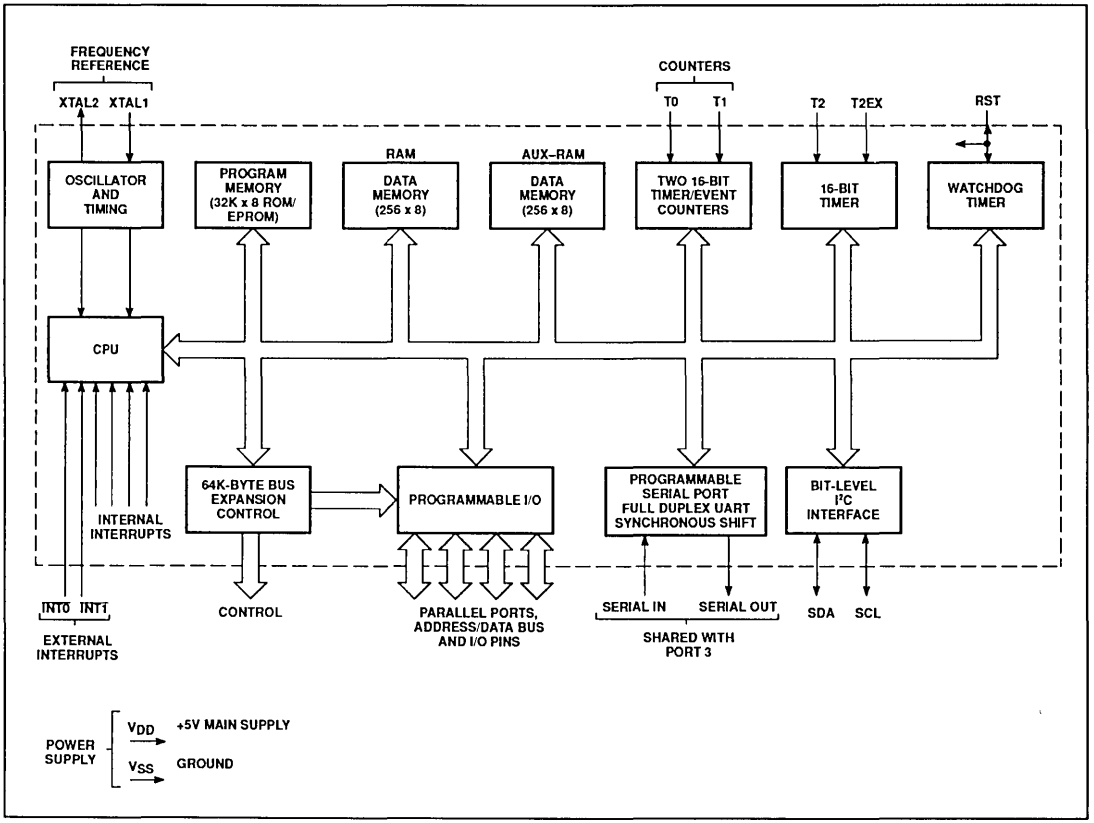
Product Spotlights

80C528/83C528/87C528 – CMOS Single-Chip 8-Bit Microcontroller

FEATURES

- 80C51 instruction set
  - 32K × 8 ROM (83C528)
  - 32K × 8 EPROM (87C528)
  - ROMless (80C528)
  - 512 × 8 RAM
  - Memory addressing capability 64K ROM and 64K RAM
  - Three 16-bit counter/timers
  - On-chip watchdog timer
  - Full duplex UART
  - I^2C serial interface
- Power control modes:
  - Idle mode
  - Power-down mode
  - Warm start from power-down
- CMOS and TTL compatible
- Speed range at V_{DD} = 5V ±10%
  - 3.5 to 16MHz
- Extended temperature ranges
- OTP package available
- ROM/EPROM code protection

BLOCK DIAGRAM



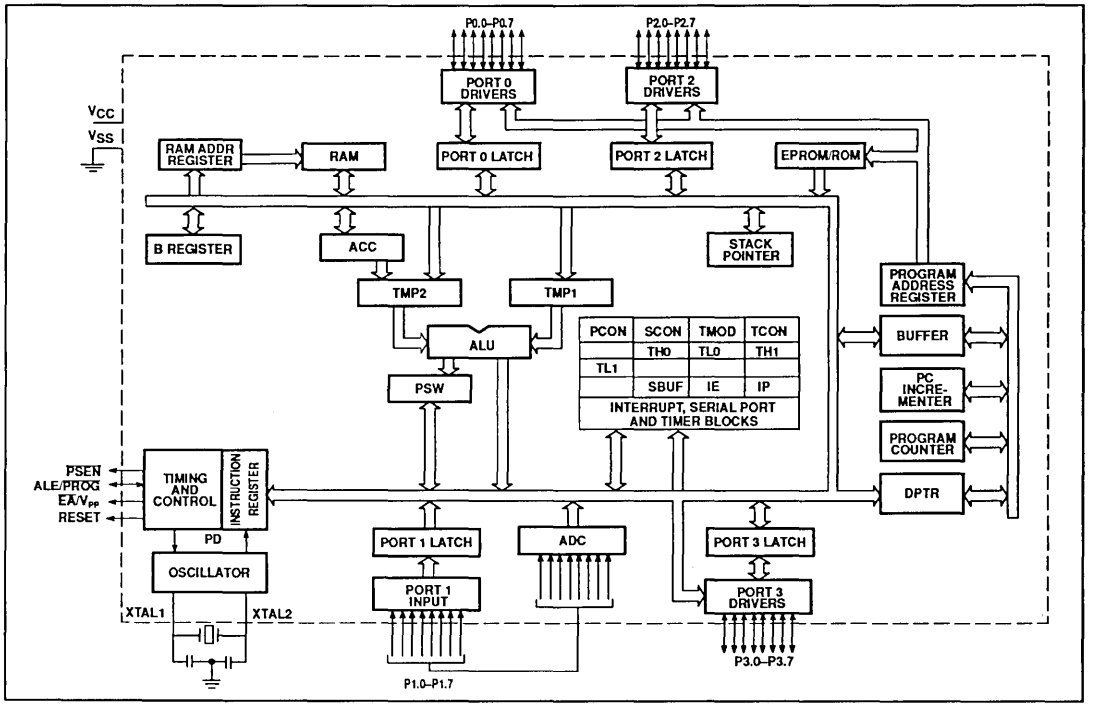
Product Spotlights

80C550/83C550/87C550 – CMOS Single-Chip 8-Bit Microcontroller with A/D and Watchdog Timer

FEATURES

- 80C51 based architecture
  - 4K × 8 EPROM (87C550)/ ROM (83C550)
  - 128 × 8 RAM
  - Eight channels of 8-bit A/D
  - Two 16-bit counter/timers
  - Watchdog timer
  - Full duplex serial channel
  - Boolean processor
- Memory addressing capability
  - 64K ROM and 64K RAM
- Power control modes:
  - Idle mode
  - Power-down mode
- CMOS and TTL compatible
- Speed range at V_{CC} = 5V ±10%
  - 3.5 to 16MHz
- Four package styles
- Extended temperature ranges
- OTP package available

BLOCK DIAGRAM



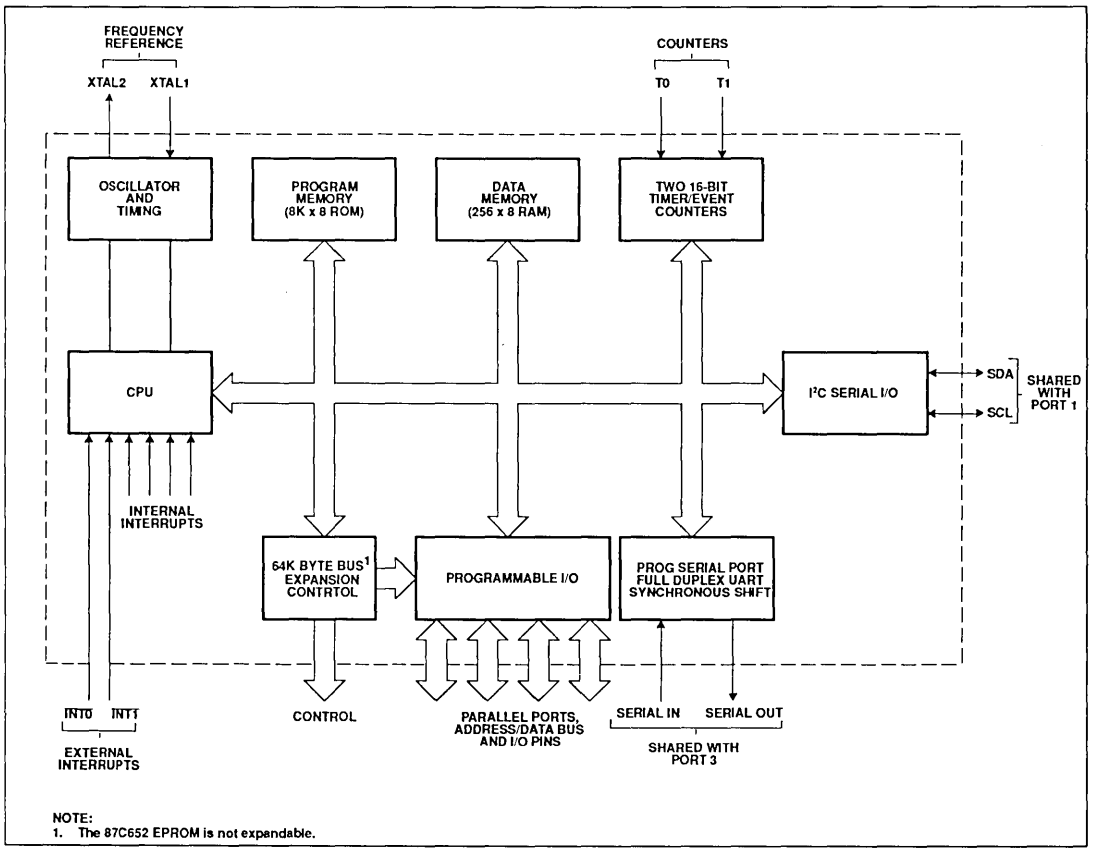
Product Spotlights

80C652/83C652/87C652 – CMOS Single-Chip, 8-Bit Microcontroller

FEATURES

- 80C51 central processing unit
- 8K × 8 ROM expandable externally to 64K bytes (87C652 EPROM is not expandable)
- 256 × 8 RAM, expandable externally to 64K bytes
- Two standard 16-bit timer/counters
- Four 8-bit I/O ports
- I²C-bus serial I/O port with byte oriented master and slave functions
- Full-duplex UART facilities
- Power control modes
  - Idle mode
  - Power-down mode
- Five package styles
- Extended temperature ranges
- OTP package available

BLOCK DIAGRAM



NOTE:
1. The 87C652 EPROM is not expandable.

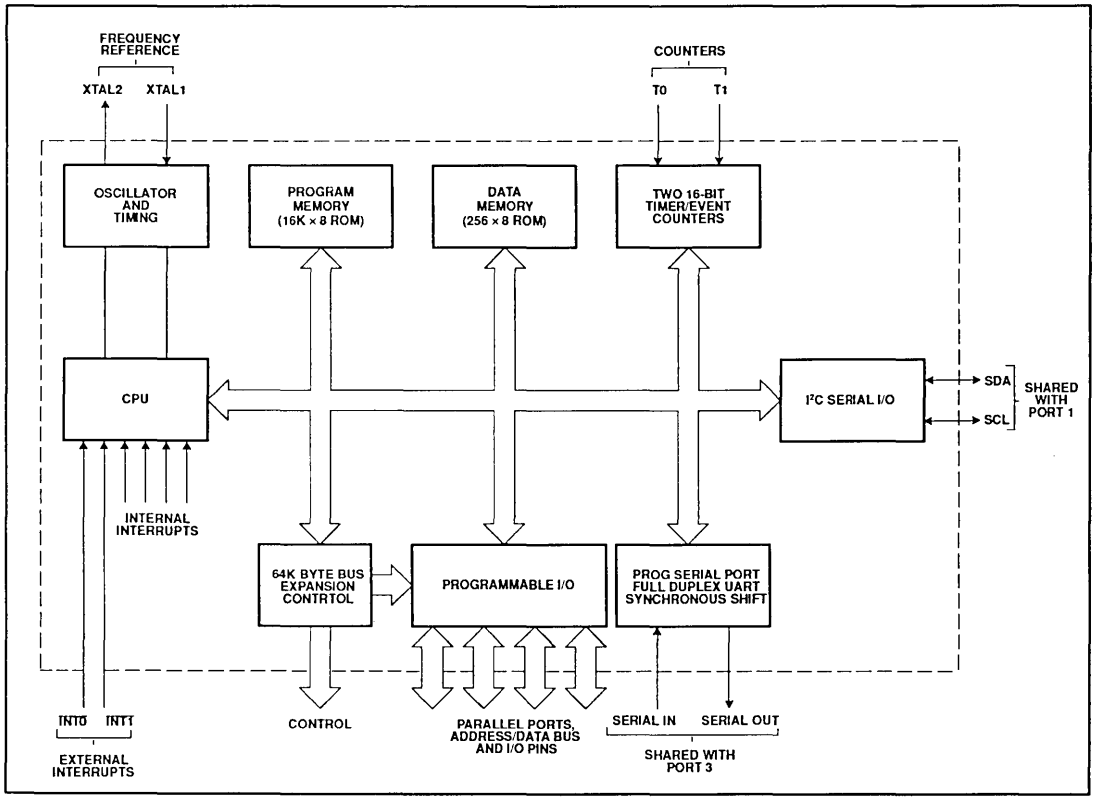
Product Spotlights

83C654/87C654 – CMOS Single-Chip, 8-Bit Microcontroller

FEATURES

- 80C51 central processing unit
- 16K × 8 ROM expandable externally to 64K bytes
- 256 × 8 RAM, expandable externally to 64K bytes
- Two standard 16-bit timer/counters
- Four 8-bit I/O ports
- I²C-bus serial I/O port with byte oriented master and slave functions
- Full-duplex UART facilities
- Power control modes
  - Idle mode
  - Power-down mode
- Five package styles
- Extended temperature ranges
- OTP package available

BLOCK DIAGRAM



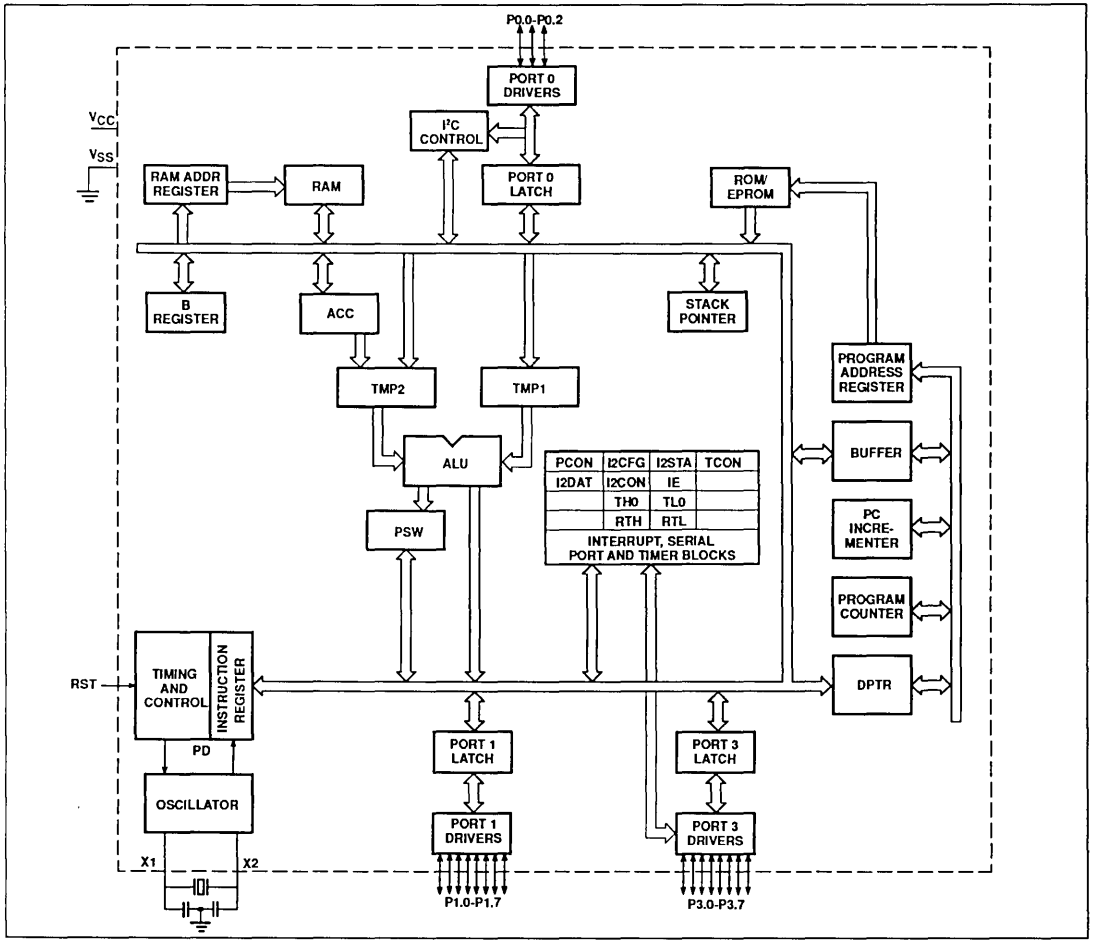
Product Spotlights

83C751/87C751 – CMOS Single-Chip 8-Bit Microcontroller

FEATURES

- 80C51 based architecture
- Inter-Integrated Circuit (I^2C) serial bus interface
- Small package sizes
  - 24-pin DIP (300 mil "skinny DIP")
  - 28-pin PLCC
- 87C751 available in erasable quartz lid or one-time programmable plastic packages
- Wide oscillator frequency range
- Low power consumption:
  - Normal operation: less than 11mA @ 5V, 12MHz
  - Idle mode
  - Power-down mode
- 2K × 8 ROM (83C751)
  2K × 8 EPROM (87C751)
- 64 × 8 RAM
- 16-bit auto reloadable counter/timer
- Fixed-rate timer
- Boolean processor
- CMOS and TTL compatible
- Well suited for logic replacement, consumer and industrial applications

BLOCK DIAGRAM



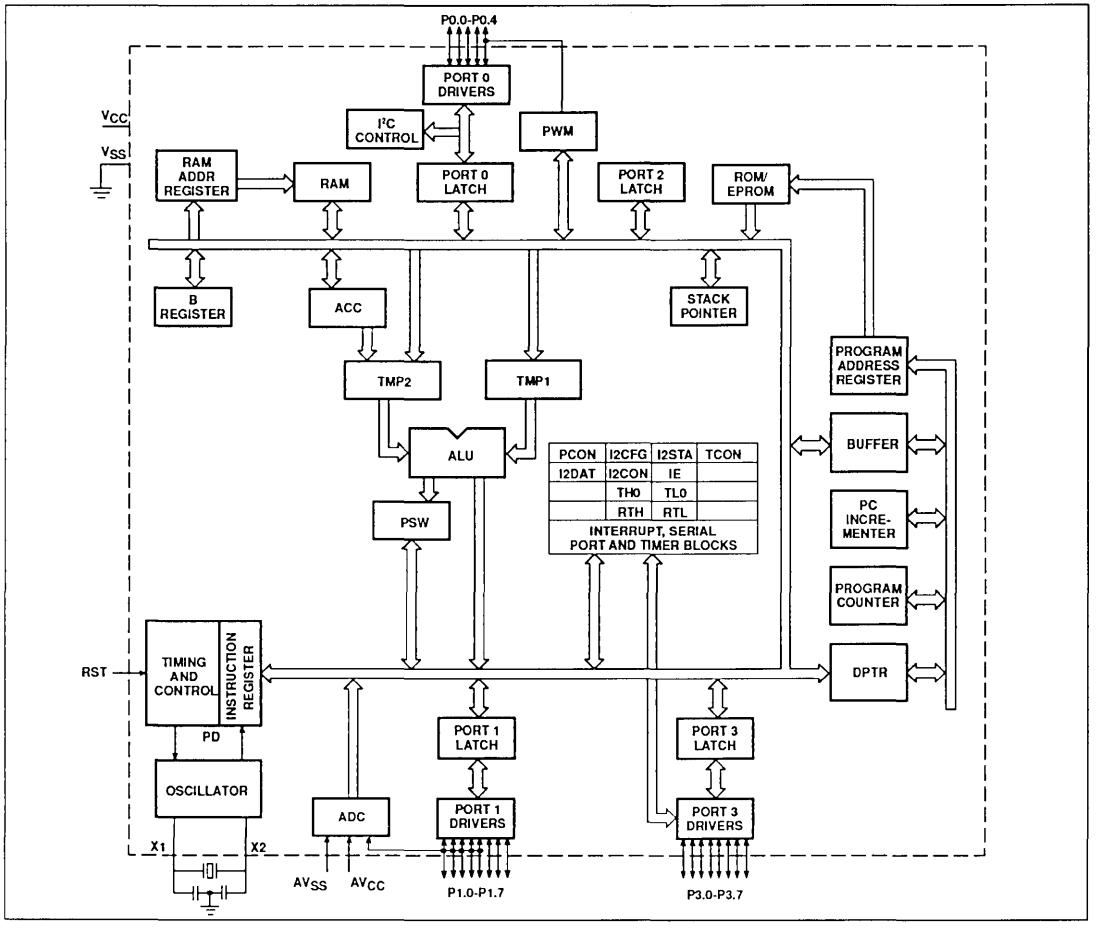
Product Spotlights

83C752/87C752 – CMOS Single-Chip 8-Bit Microcontroller with A/D, PWM

FEATURES

- Available in erasable quartz lid or One-Time Programmable plastic packages
- 80C51 based architecture
- Inter-integrated Circuit (I^2C) serial bus interface
- Small package sizes
  - 28-pin DIP
  - 28-pin PLCC
- Wide oscillator frequency range
- Low power consumption:
  - Normal operation: less than 11mA @ 5V, 12MHz
  - Idle mode
  - Power-down mode
- 2K × 8 ROM (83C752) EPROM (87C752)
- 64 × 8 RAM
- 16-bit auto reloadable counter/timer
- 5-channel 8-bit A/D converter
- 8-bit PWM output/timer
- Fixed-rate timer
- Boolean processor
- CMOS and TTL compatible
- Well suited for logic replacement, consumer and industrial applications

BLOCK DIAGRAM



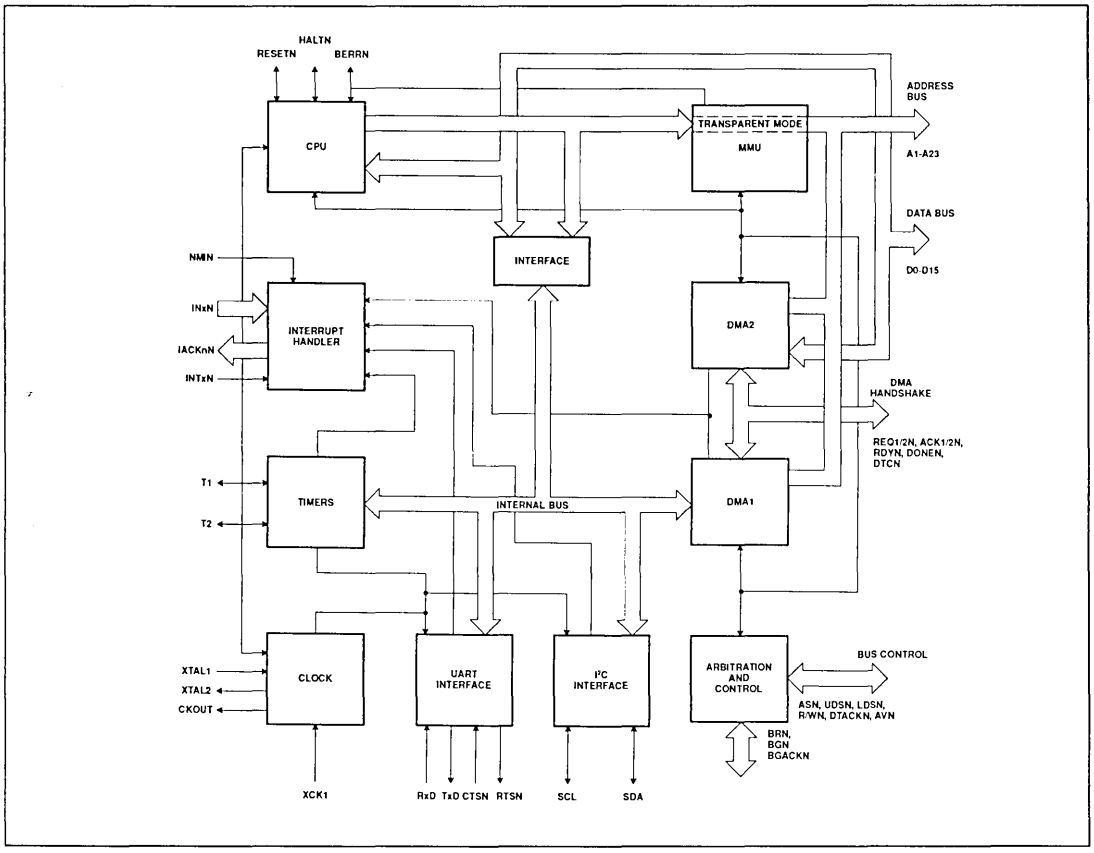
Product Spotlights

SCC68070 – 16-Bit Integrated Microprocessor

FEATURES

- CMOS technology
- 32-bit internal structure
- Enhanced bus error handling
- 4 decoded interrupt inputs
- 2 programmable interrupt inputs
- Decoded interrupt acknowledge
- Built-in clock generator – maximum 30MHz crystal
- On-chip MMU; supporting virtual memory
- 2-channel DMA controller
- I^2C serial bus interface
- 16-bit timer/counter
- Two 16-bit match/count/capture registers
- Fully 68000 object code compatible
- Bus interface similar to 68000
- 56 powerful instruction types
- 5 basic data types
- 16Mbyte addressing range
- 14 addressing modes
- Memory mapped I/O
- Vectored and auto-vectored interrupts
- 7 internal interrupt levels
- Maximum internal clock frequency: 17.5MHz
- 84-pin PLCC package
- 120-pin Quad Flat Pack (QFP)

BLOCK DIAGRAM



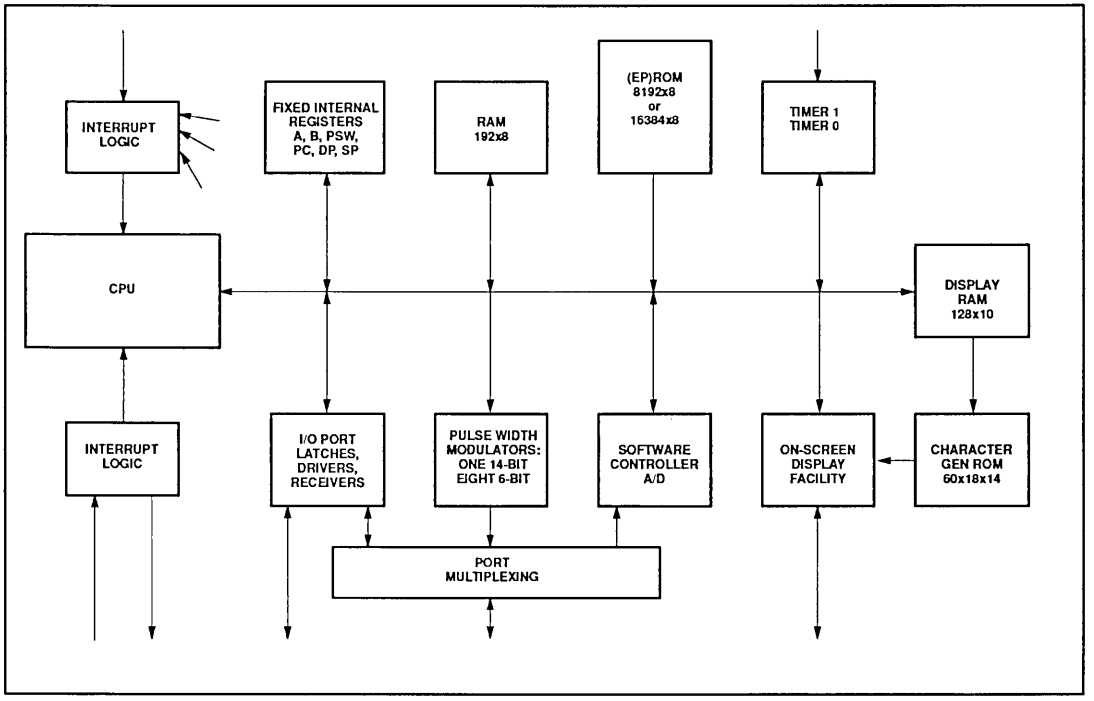
Product Spotlights

83C053/83C054/87C054 – Microcontroller for Television and Video (MTV)

FEATURES

- 8192 × 8 masked ROM (83C053)
  16384 × 8 masked ROM (83C054)
  16384 × 8 OTPROM (87C054)
- 192 × 8 RAM
- On Screen Display (OSD) Controller
- Three digital video outputs
- Multiplexer/mixer and background intensity controls
- Flexible formatting with OSD New Line Option
- 128 × 10 display RAM
- 60 × 18 × 14 character generator ROM
- Eight text-shadowing modes
- Text color selectable per character
- Background color selectable per word
- Background color vs. video selectable per character
- Eight 6-bit pulse width modulators for analog voltage integration
- One 14-bit PWM for high-precision voltage integration
- D/A converter and comparator with three-input multiplexer
- Nine dedicated I/Os plus 28 port bits
- 15 port bits have alternate uses
- Four high-current open-drain port outputs
- 12 high-voltage (+12V) open drain outputs
- Programmable video input and output polarities
- 80C51 instruction set
- No external memory capability
- 42-pin shrunk DIP (0.07-inch center pins)
- High-speed CMOS technology
- 5V ± 10% operation

BLOCK DIAGRAM



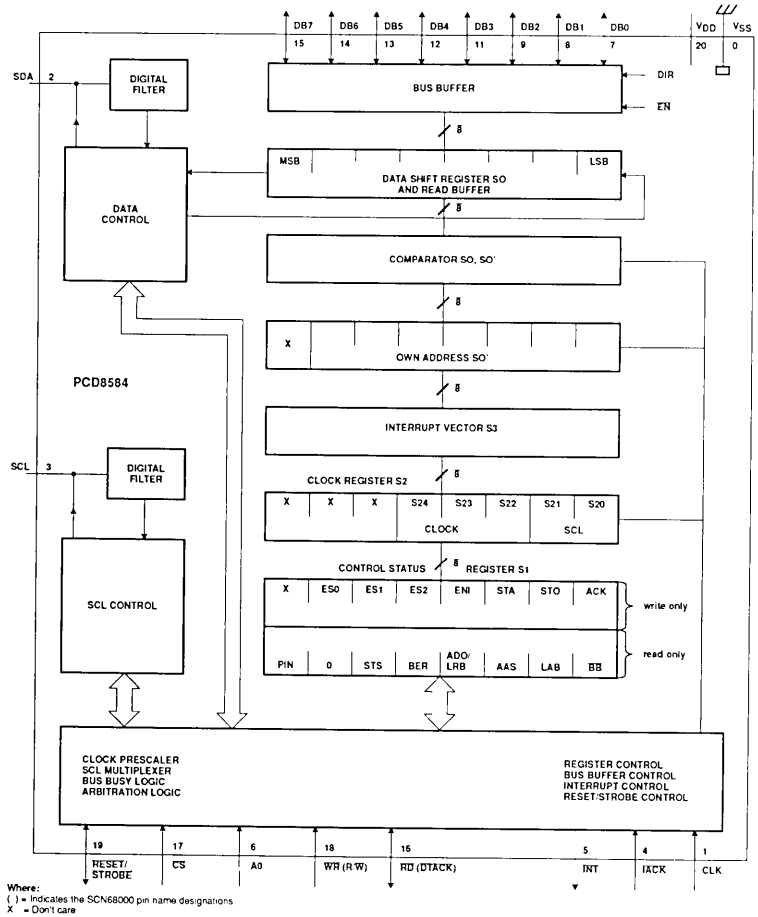
Product Spotlights

PCD8584 – I²C-Bus Controller

FEATURES

- Parallel-bus/I²C-bus protocol converter
- Compatible with most parallel-bus processors including MAB8049, MAB8051, SCN68000 and Z80
- Automatic selection of bus interface
- Programmable interrupt vector
- Multi-master capability
- I²C-bus monitor mode
- Long-distance mode
- Operating supply voltage 4.5 to 5.5V
- Operating temperature range -20 to 70°C

BLOCK DIAGRAM



Product Spotlights

PCF84C430 – CMOS 8-Bit Microcontroller with On-Chip LCD Driver

DESCRIPTION

The PCF84C430 is a derivative of the PCF84CXX family of microcontrollers and is manufactured using CMOS technology. On-chip it includes and LCD driver supporting most Liquid Crystal Displays with up to 95 segments. The display driver can handle up to 12 numeric characters, or 6 alphanumeric characters. The supply voltage ranges from 2.5 to 5.5 volts and is designed for battery-powered applications.

The PCF84C430 provides hand-held battery-powered products with an LCD display.

FEATURES

- **On-chip LCD driver with 24 outputs**
- **4K ROM bytes/128 RAM bytes**
- **I²C-bus hardware interface for serial data transfer on two separate lines**
- **8-bit programmable timer/event counter**
- **Clock frequency 100kHz to 10MHz**
- **Single supply voltage from 2.5V to 5.5V**

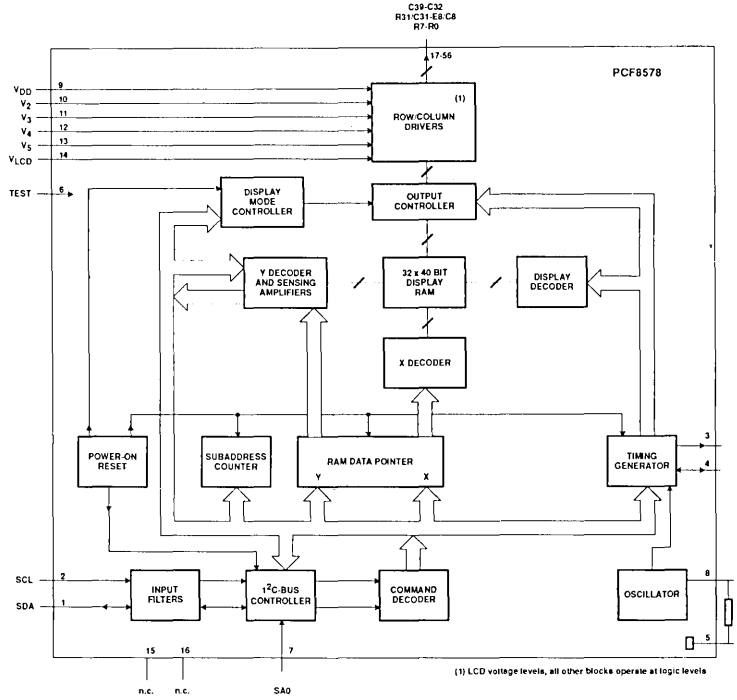
Product Spotlights

PCF8578 – LCD Row/Column Driver for Dot Matrix Graphic Displays

FEATURES

- Single chip LCD controller/driver
- Stand-alone or may be used with up to 32 PCF8579s (40,960 dots possible
- 40 driver outputs, configurable as 32/8, 24/16, 16/24 or 8/32 rows/columns
- Selectable multiplex rates; 1:8, 1:16, 1:24 or 1:32
- Externally selectable bias configuration, 5 or 6 levels
- 1280-bit RAM for display data storage and scratch pad
- Display memory bank switching
- Auto-incremented data loading across hardware subaddress boundaries (with PCF8579)
- Provides display synchronization for PCF8579
- On-chip oscillator, requires only 1 external resistor
- Power-on reset blanks display
- Logic voltage supply range 2.5V to 6.0V
- Maximum LCD supply voltage 9V
- Low power consumption
- I²C-bus interface
- TTL/CMOS compatible
- Compatible with most microcontrollers
- Optimized pinning for single plane wiring in multiple device applications (with PCF8579)
- Space saving 56-lead plastic mini-pack
- Compatible with chip-on-glass technology

BLOCK DIAGRAM



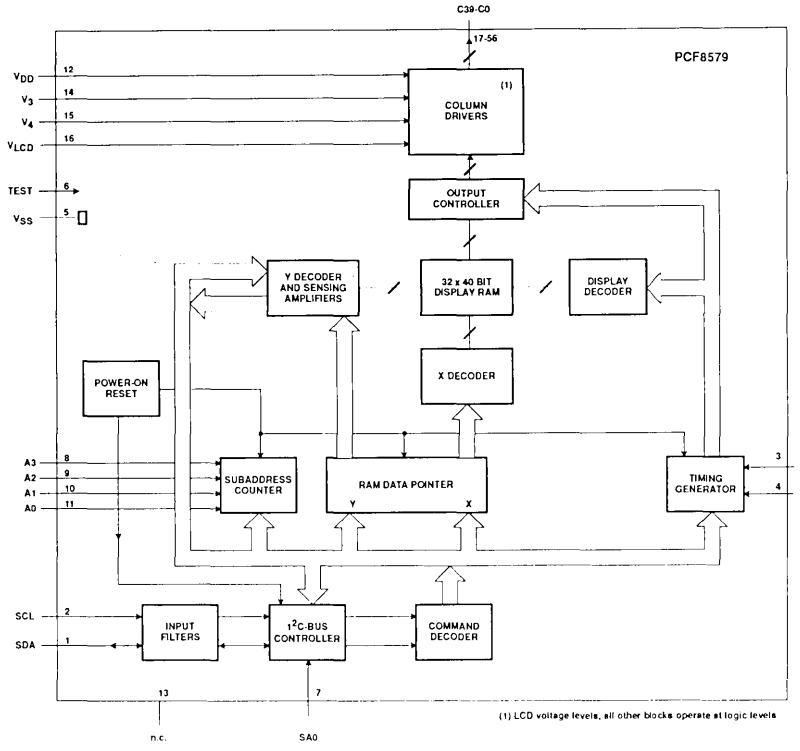
Product Spotlights

PCF8579 – LCD Row/Column Driver for Dot Matrix Graphic Displays

FEATURES

- LCD column driver
- Used in conjunction with the PCF8578, this device forms part of a chip set capable of driving up to 40,960 dots
- 40 column outputs
- Selectable multiplex rates; 1:8, 1:16, 1:24 or 1:32
- Externally selectable bias configuration, 5 or 6 levels
- Easily cascadable for large applications (up to 32 devices)
- 1280-bit RAM for display data storage
- Display memory bank switching
- Auto-incremented data loading across hardware subaddress boundaries
- Power-on reset blanks display
- Logic voltage supply range 2.5V to 6.0V
- Maximum LCD supply voltage 9V
- Low power consumption
- I²C-bus interface
- TTL/CMOS compatible
- Compatible with most microcontrollers
- Optimized pinning for single plane wiring in multiple device applications
- Space saving 56-lead plastic mini-pack
- Compatible with chip-on-glass technology

BLOCK DIAGRAM



Product Spotlights

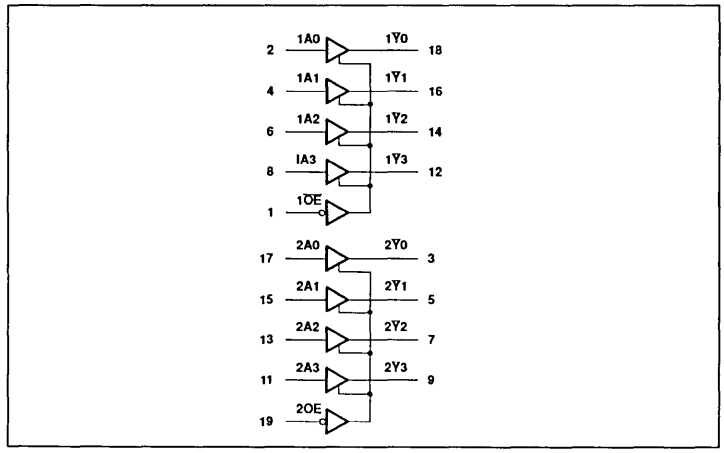
FIXED FUNCTION LOGIC

74ABT241 – Octal Buffer/Line Driver (3-State)

FEATURES

- Octal bus interface
- 3-State buffers
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 4.6ns worst case propagation delay
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM

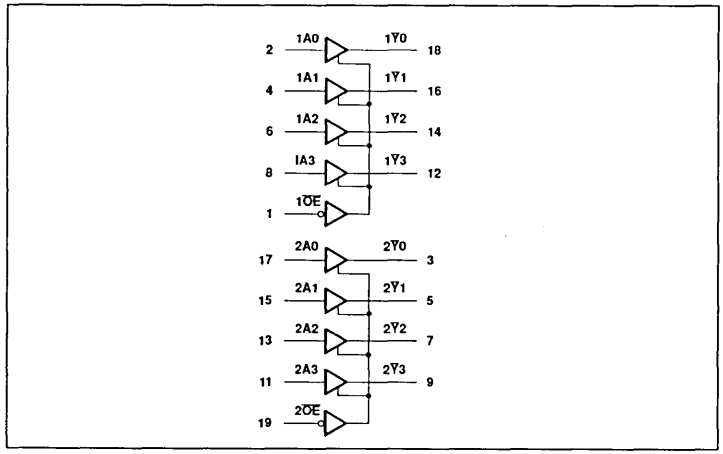


74ABT244 – Octal Buffer/Line Driver (3-State)

FEATURES

- Octal bus interface
- 3-State buffers
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 4.6ns worst case propagation delay
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



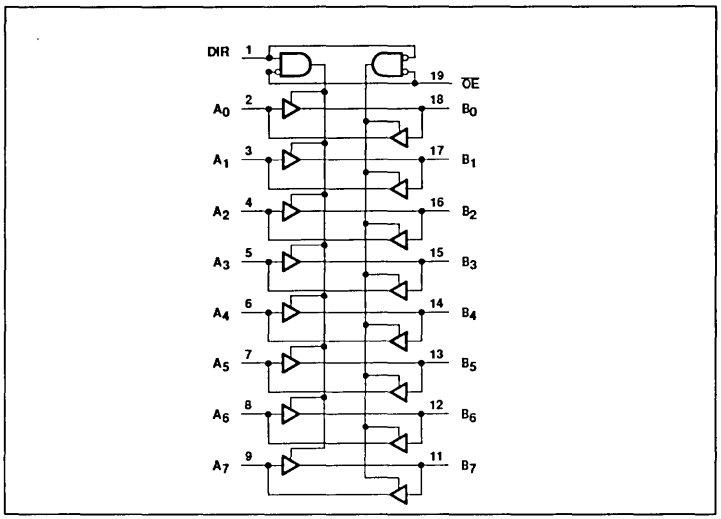
Product Spotlights

74ABT245 – Octal Transceiver with Directional Pin (3-State)

FEATURES

- Octal bus interface
- 3-State buffers
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 4.6ns worst case propagation delay
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM

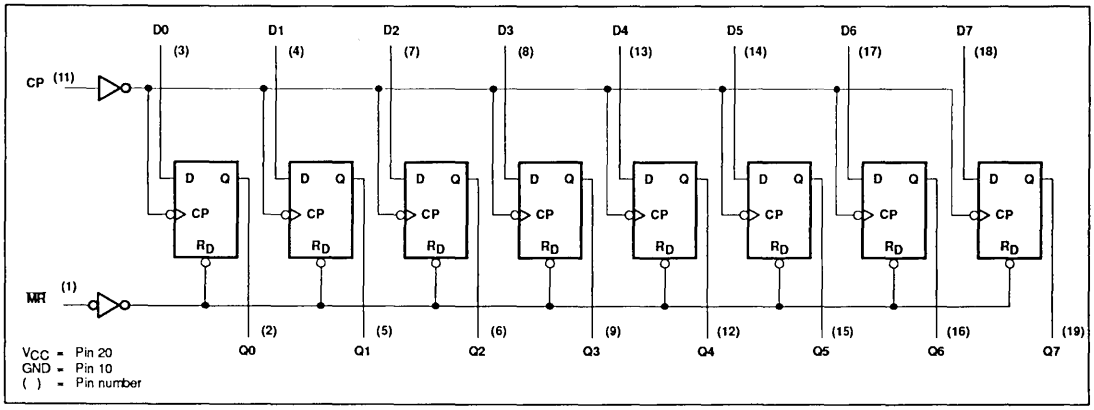


74ABT273 – Octal Transceiver with Directional Pin (3-State)

FEATURES

- Eight edge-triggered D-type flip-flops
- Buffered common clock
- Buffered asynchronous Master Reset
- See 74ABT377 for clock enable version
- See 74ABT373 for transparent latch version
- See 74ABT374 for 3-State version
- 150MHz worst case f_{MAX}
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



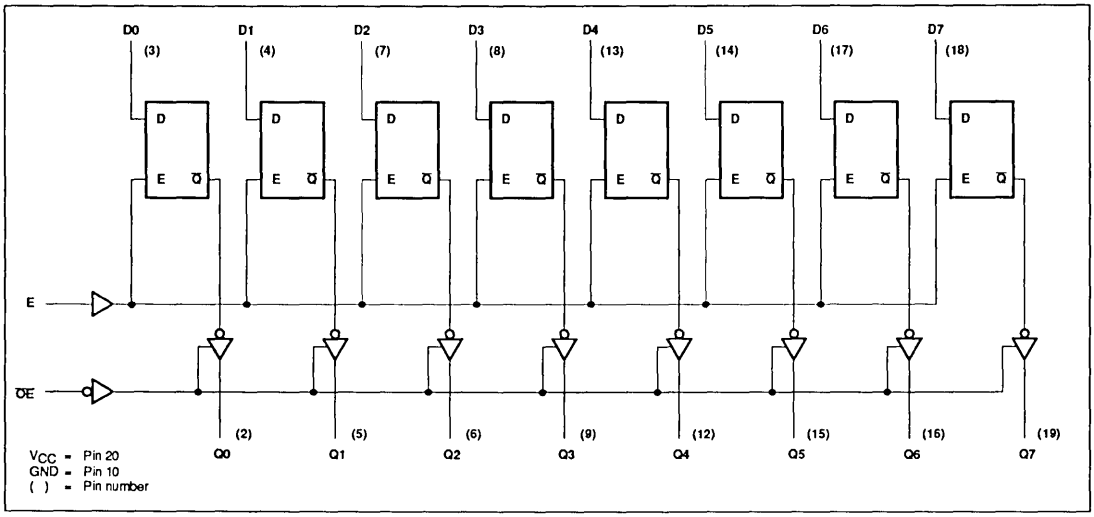
Product Spotlights

74ABT373 – Octal D-Type Transparent Latch (3-State)

FEATURES

- 8-bit transparent latch
- 3-State output buffers
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 6.2ns worst case propagation delay
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



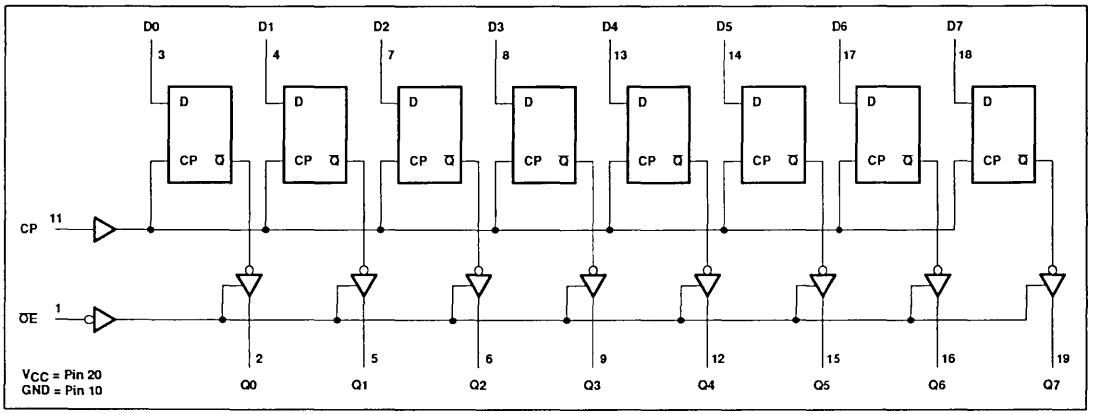
Product Spotlights

74ABT374 – Octal D-Type Flip-Flop; Positive-Edge Trigger (3-State)

FEATURES

- 8-bit positive edge triggered register
- 3-State output buffers
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 150MHz worst case f_{MAX}
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



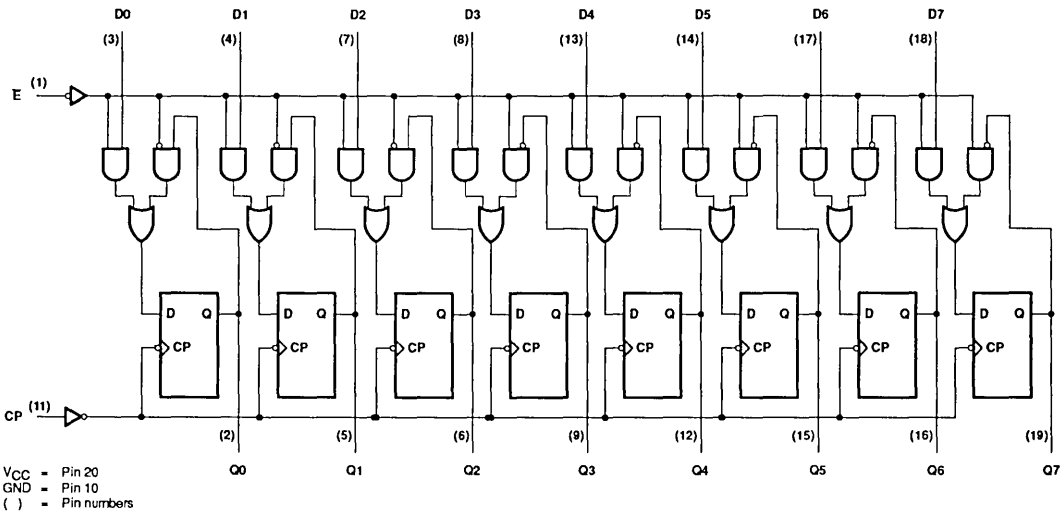
Product Spotlights

74ABT377 – Octal D-Type Flip-Flop with Enable

FEATURES

- Ideal for addressable register applications
- 8-bit positive edge triggered register
- Enable for address and data synchronization applications
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 150MHz worst case f_{MAX}
- 50µA worst case I_{CCZ}

LOGIC DIAGRAM



For LLCC Pin Assignments see JEDEC Standard No. 2

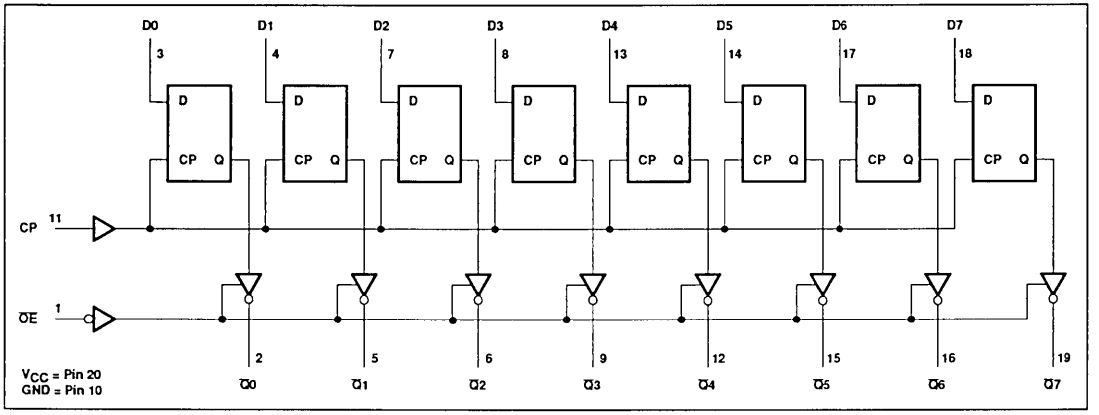
Product Spotlights

74ABT534 – Octal D-Type Flip-Flop, Inverting (3-State)

FEATURES

- 8-bit positive edge triggered register
- 3-State output buffers
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 125MHz worst case f_{MAX}
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM

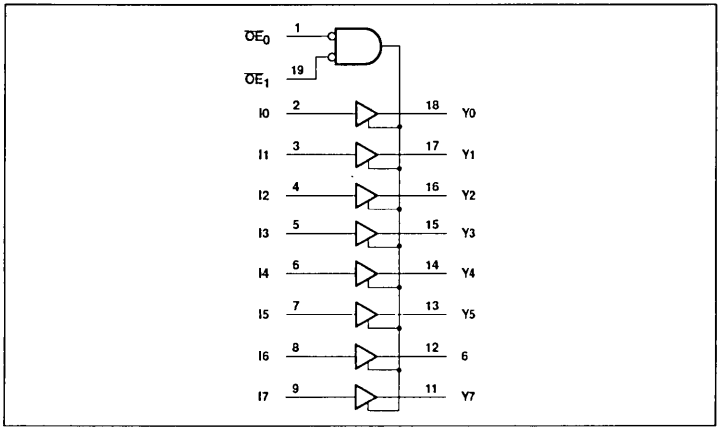


74ABT541 – Octal Buffer/Line Driver (3-State)

FEATURES

- Octal bus interface
- Functions similar to the 74ABT241
- Provides ideal interface and increases fan-out of MOS Microprocessors
- Efficient pinout to facilitate PC board layout
- 3-State buffer outputs sink 64mA and source 32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 125MHz worst case f_{MAX}
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



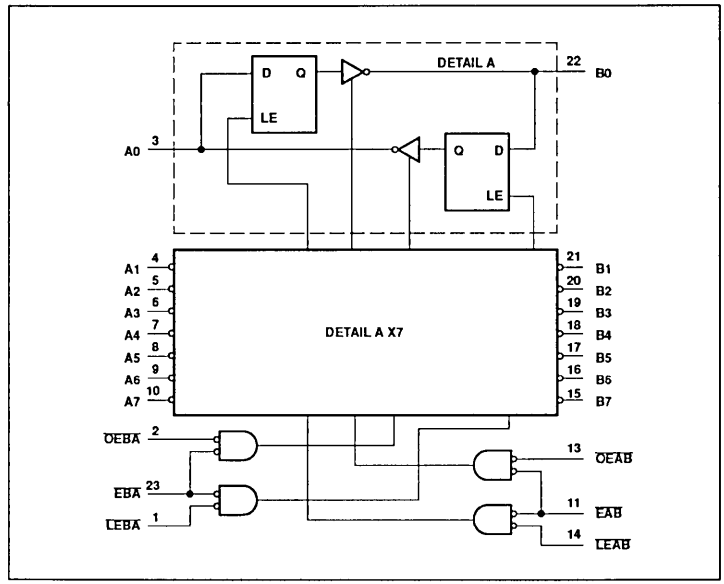
Product Spotlights

74ABT543 – Octal Buffer/Line Driver (3-State)

FEATURES

- Combines 74ABT245 and 74ABT373 type functions in one device
- 8-bit octal transceiver with D-type latch
- Back-to-back registers for storage
- Separate controls for data flow in each direction
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per Jedec JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- Worst case propagation delay is 6.9ns
- Worst case I_{CCZ} is 50μA

LOGIC DIAGRAM

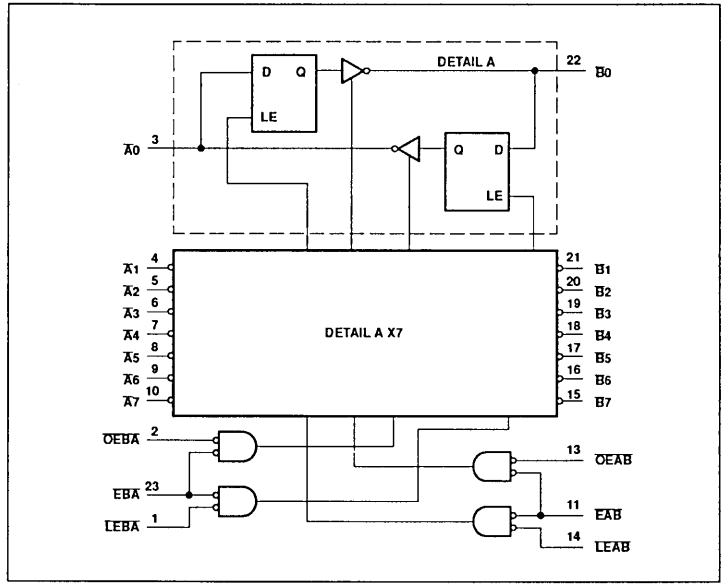


74ABT544 – Octal Latched Transceiver with Dual Enable, Inverting

FEATURES

- Combines 74ABT245 and 74ABT373 type functions in one device
- 8-bit octal transceiver with D-type latch
- Back-to-back registers for storage
- Separate controls for data flow in each direction
- 3-State buffer outputs sink 64mA and source 32mA
- Latch-up protection exceeds 500mA per Jedec JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- Worst case propagation delay is 6.4ns
- Worst case I_{CCZ} is 50μA

LOGIC DIAGRAM



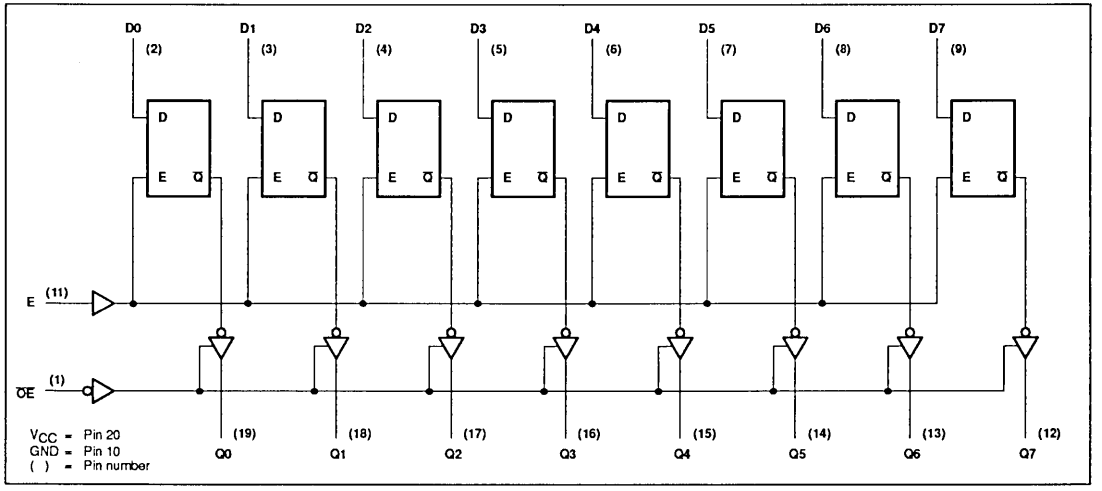
Product Spotlights

74ABT573 – Octal D-Type Transparent Latch (3-State)

FEATURES

- 74ABT373 is a broadside pinout version of 74ABT373
- Inputs and outputs on opposite side of package allow easy interface to microprocessors
- 3-State outputs for bus interfacing common output enable
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 6.2ns worst case propagation delay
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



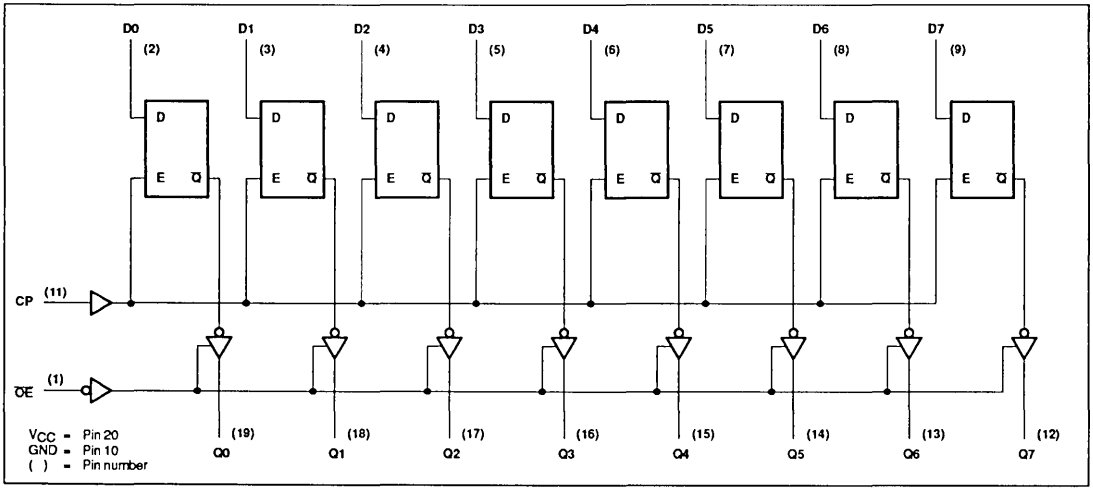
Product Spotlights

74ABT574 – Octal D Flip-Flop (3-State)

FEATURES

- 74ABT574 is a broadside pinout version of 74ABT374
- Inputs and outputs on opposite side of package allow easy interface to microprocessors
- Useful as an input or output port for microprocessors
- 3-State outputs for bus interfacing common output enable
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 150MHz worst case f_{MAX}
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



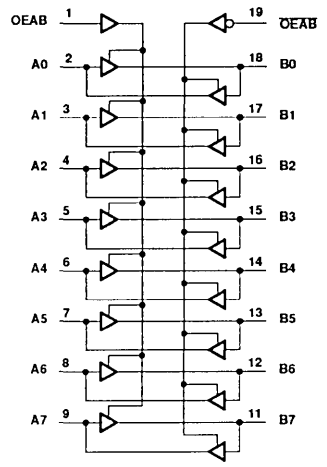
Product Spotlights

74ABT623 – Octal Transceiver with Dual Enable, Non-Inverting (3-State)

FEATURES

- Octal bidirectional bus interface
- 3-State buffers
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 4.6ns worst case propagation
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM

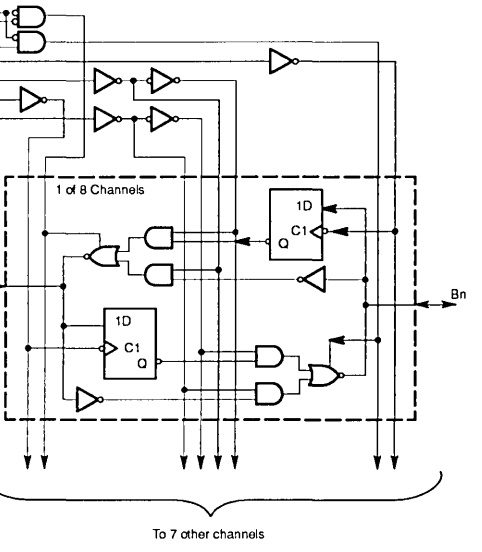


74ABT646 – Octal Bus Transceiver/Register (3-State)

FEATURES

- Combines 74ABT245 and 74ABT374 type functions in one device
- Independent registers for A and B buses
- Multiplexed real-time and stored data
- Output sink 64mA and source 32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 6.9ns worst case propagation
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



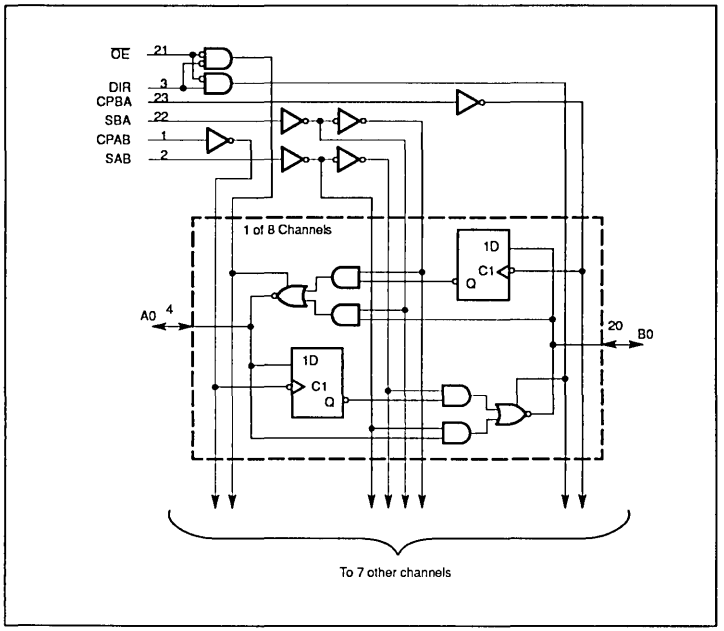
Product Spotlights

74ABT648 – Octal Bus Transceiver/Register, Inverting (3-State)

FEATURES

- Combines 74ABT245 and 74ABT374 type functions in one device
- Independent registers for A and B buses
- Multiplexed real-time and stored data
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 6.2ns worst case propagation
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



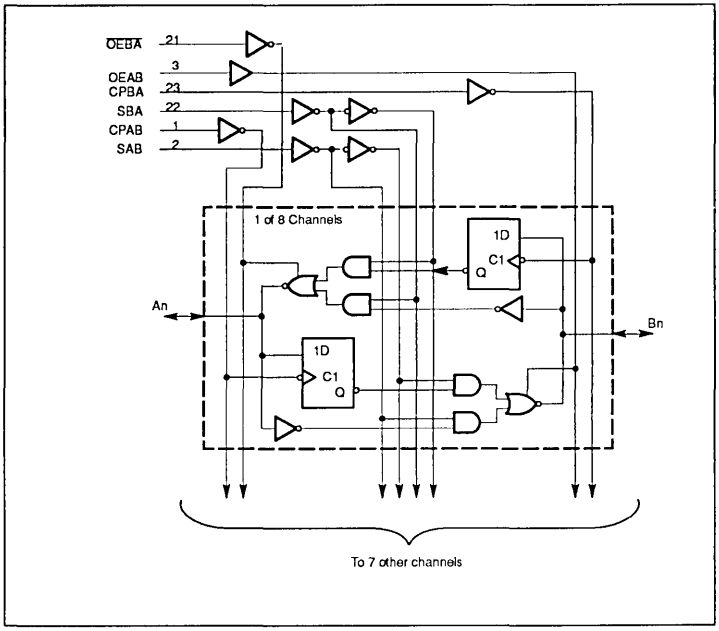
Product Spotlights

74ABT652 – Transceiver/Register, Non-Inverting (3-State)

FEATURES

- Independent registers for A and B buses
- Multiplexed real-time and stored data
- 3-State outputs
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 6.7ns worst case propagation
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



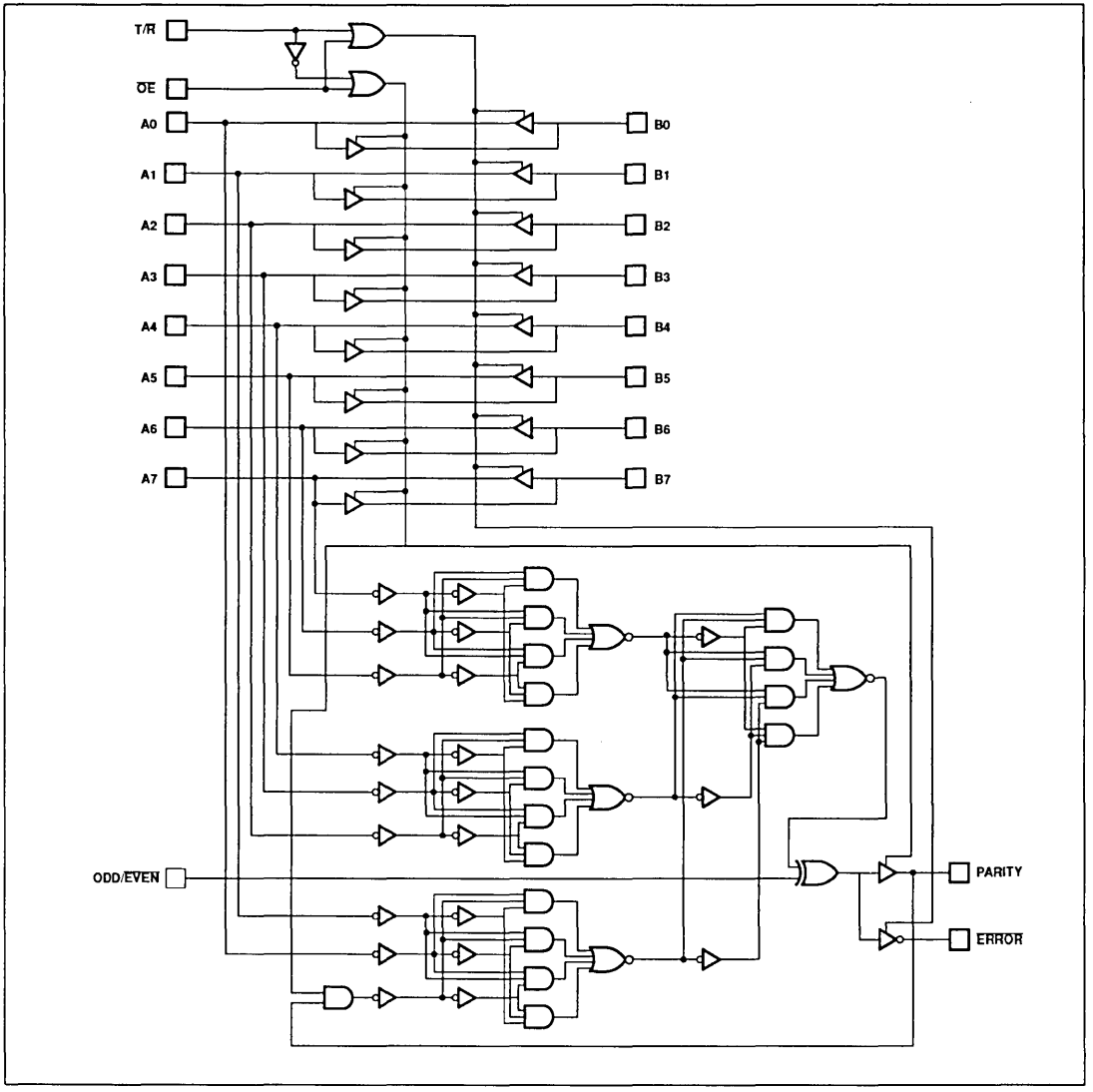
Product Spotlights

74ABT657 – Octal Transceiver with Parity Generator/Checker (3-State)

FEATURES

- Combinational functions in one package
- Low static and dynamic power dissipation with high speed and high output drive
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 5.5ns worst case propagation
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



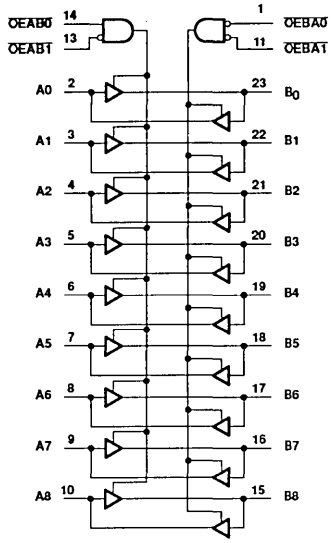
Product Spotlights

74ABT863 – 9-Bit Bus Transceiver (3-State)

FEATURES

- Provides high performance bus interface buffering for wide data/address paths or buses carrying parity
- Buffered control inputs for light loading or increased fan-in as required with MOS microprocessors
- Broadside pinout compatible with AMD AM29863
- Output capability: +64mA/-32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 6.3ns worst case propagation delay
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



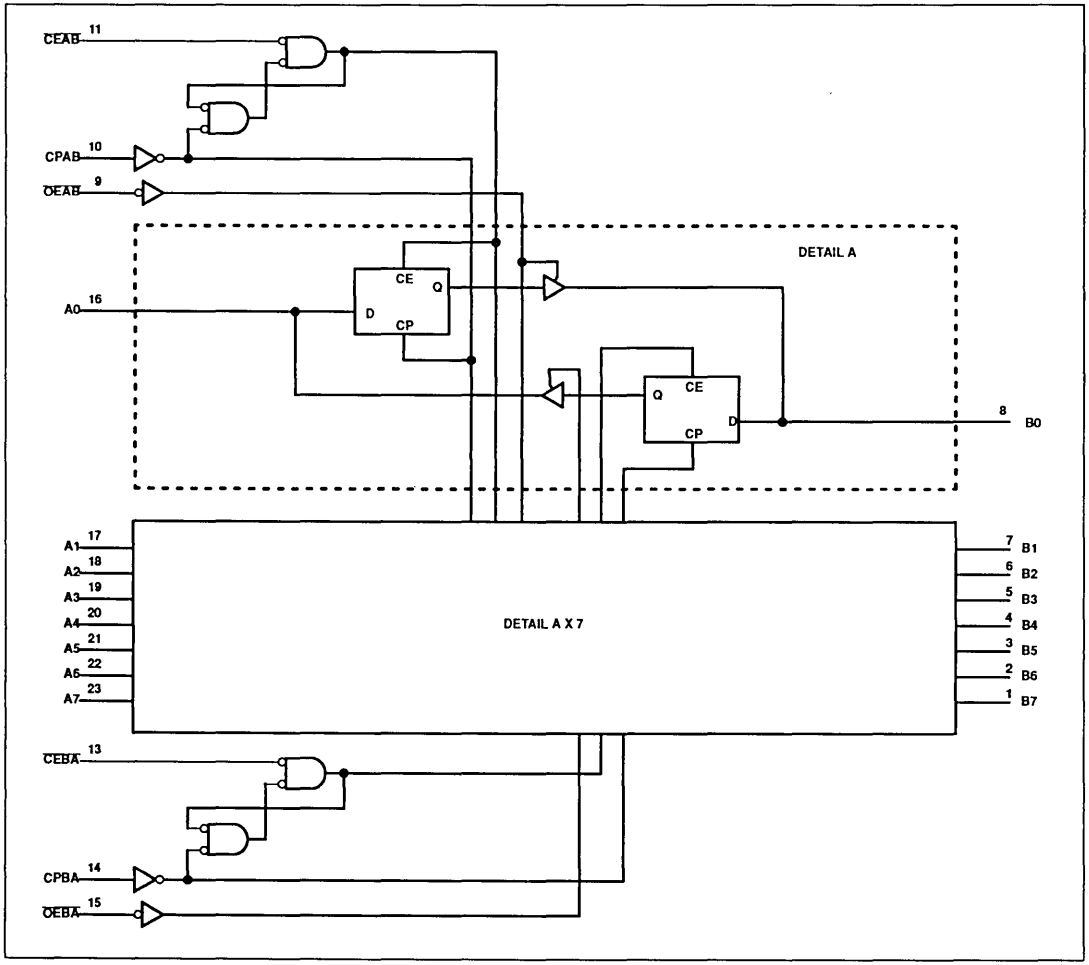
Product Spotlights

74ABT2952 – Octal Registered Transceiver (3-State)

FEATURES

- 8-bit registered transceiver
- Independent registers for A and B buses
- AM2952 functional equivalent
- Outputs sink 64mA and source 32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 8.2ns worst case propagation
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



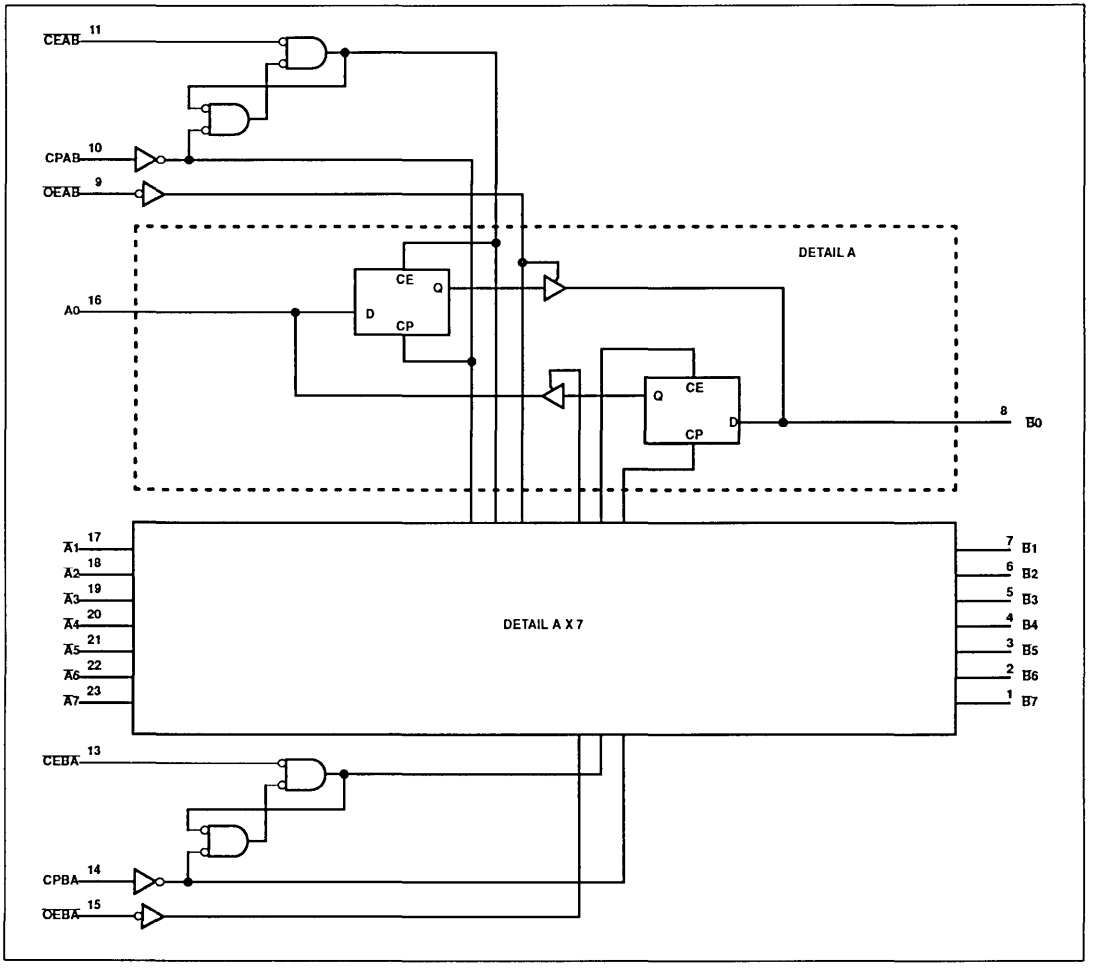
Product Spotlights

74ABT2953 – Octal Registered Transceiver, Inverting (3-State)

FEATURES

- 8-bit registered inverting transceiver
- Separate clock, clock enable and 3-State enable provided for each register
- AM2953 functional equivalent
- Outputs sink 64mA and source 32mA
- Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17
- ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model
- 8.2ns worst case propagation
- 50μA worst case I_{CCZ}

LOGIC DIAGRAM



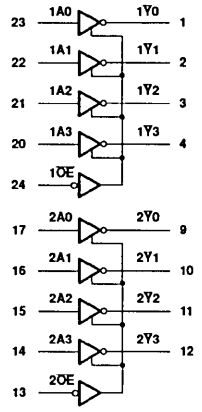
Product Spotlights

74AC/ACT11240 – Octal Buffer/Line Driver, Inverting (3-State)

FEATURES

- Octal bus interface
- 3-State buffers
- Output capability: ±24mA
- CMOS (AC) and TTL (ACT) voltage level inputs
- 50Ω incident wave switching
- Center-pin V_{CC} and ground configuration to minimize high-speed switching noise
- I_{CC} category: MSI

LOGIC DIAGRAM

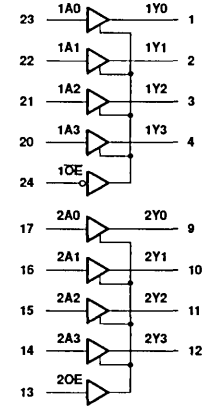


74AC/ACT11241 – Octal Buffer/Line Driver (3-State)

FEATURES

- Octal bus interface
- 3-State buffers
- Output capability: ±24mA
- CMOS (AC) and TTL (ACT) voltage level inputs
- 50Ω incident wave switching
- Center-pin V_{CC} and ground configuration to minimize high-speed switching noise
- I_{CC} category: MSI

LOGIC DIAGRAM



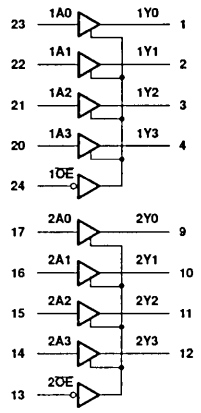
Product Spotlights

74AC/ACT11244 – Octal Buffer/Line Driver (3-State)

FEATURES

- Octal bus interface
- 3-State buffers
- Output capability: ±24mA
- CMOS (AC) and TTL (ACT) voltage level inputs
- 50Ω incident wave switching
- Center-pin V_{CC} and ground configuration to minimize high-speed switching noise
- I_{CC} category: MSI

LOGIC DIAGRAM

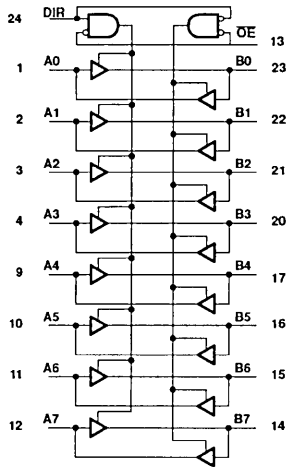


74AC/ACT11245 – Octal Transceiver with Directional Pin (3-State)

FEATURES

- Octal bidirectional bus interface
- 3-State buffers
- Output capability: ±24mA
- CMOS (AC) and TTL (ACT) voltage level inputs
- 50Ω incident wave switching
- Center-pin V_{CC} and ground configuration to minimize high-speed switching noise
- I_{CC} category: MSI

LOGIC DIAGRAM



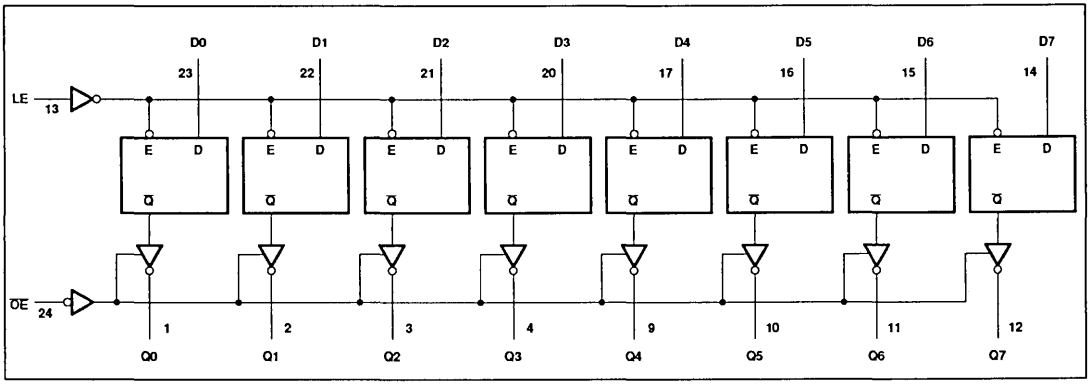
Product Spotlights

74AC/ACT11373 – Octal D-Type Transparent Latch (3-State)

FEATURES

- 8-bit transparent latch
- 3-State output buffers
- Common 3-State output enable
- Independent register and 3-State buffer operation
- Output capability: ±24mA
- CMOS (AC) and TTL (ACT) voltage level inputs
- 50Ω incident wave switching
- Center-pin V_{CC} and ground configuration to minimize high-speed switching noise
- I_{CC} category: MSI

LOGIC DIAGRAM

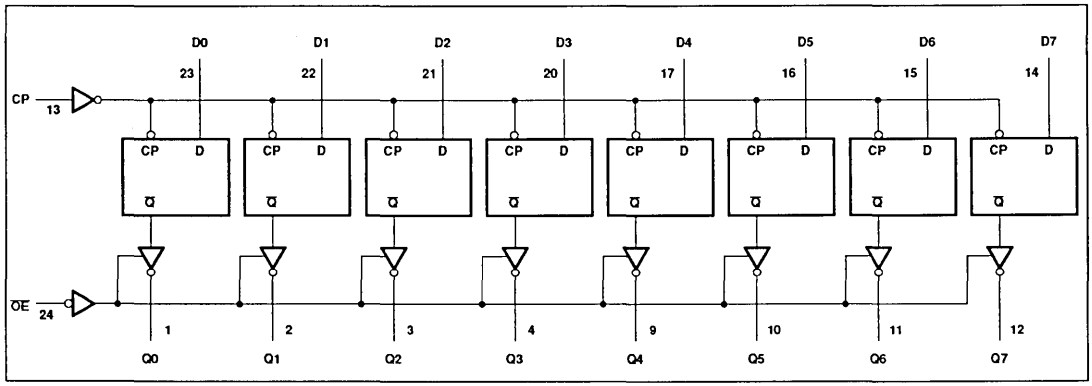


74AC/ACT11374 – Octal D-Type Flip-Flop; Positive-Edge Trigger (3-State)

FEATURES

- 3-State output buffers
- Common 3-State output enable
- Independent register and 3-State buffer operation
- Output capability: ±24mA
- CMOS (AC) and TTL (ACT) voltage level inputs
- 50Ω incident wave switching
- Center-pin V_{CC} and ground configuration to minimize high-speed switching noise
- I_{CC} category: MSI

LOGIC DIAGRAM



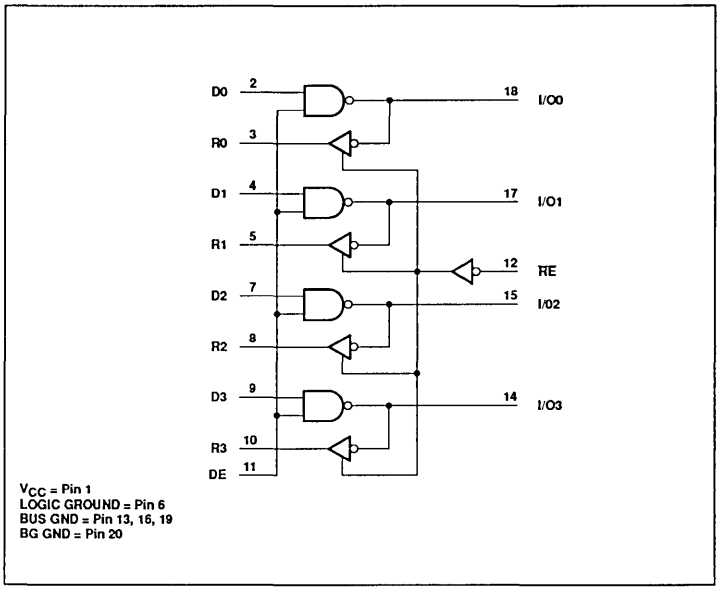
Product Spotlights

74F3893 – Quad Futurebus Backplane Transceiver (3-State + Open Collector)

FEATURES

- Quad backplane transceiver
- Drives heavily loaded backplanes with equivalent load impedances down to 10Ω
- Futurebus drivers sink 100mA
- Reduced voltage swing (1 volt) produces less noise and reduces power consumption
- High speed operation enhances performance of backplane buses and facilitates incident wave switching
- Compatible with IEEE 896 and IEEE 1194.1 Futurebus Standards
- Built-in precision band-gap (BG) reference provides accurate receiver threshold and improved noise immunity
- Glitch-free power up/power down operation on all outputs
- Pin and function compatible with NSC DS3893

LOGIC DIAGRAM



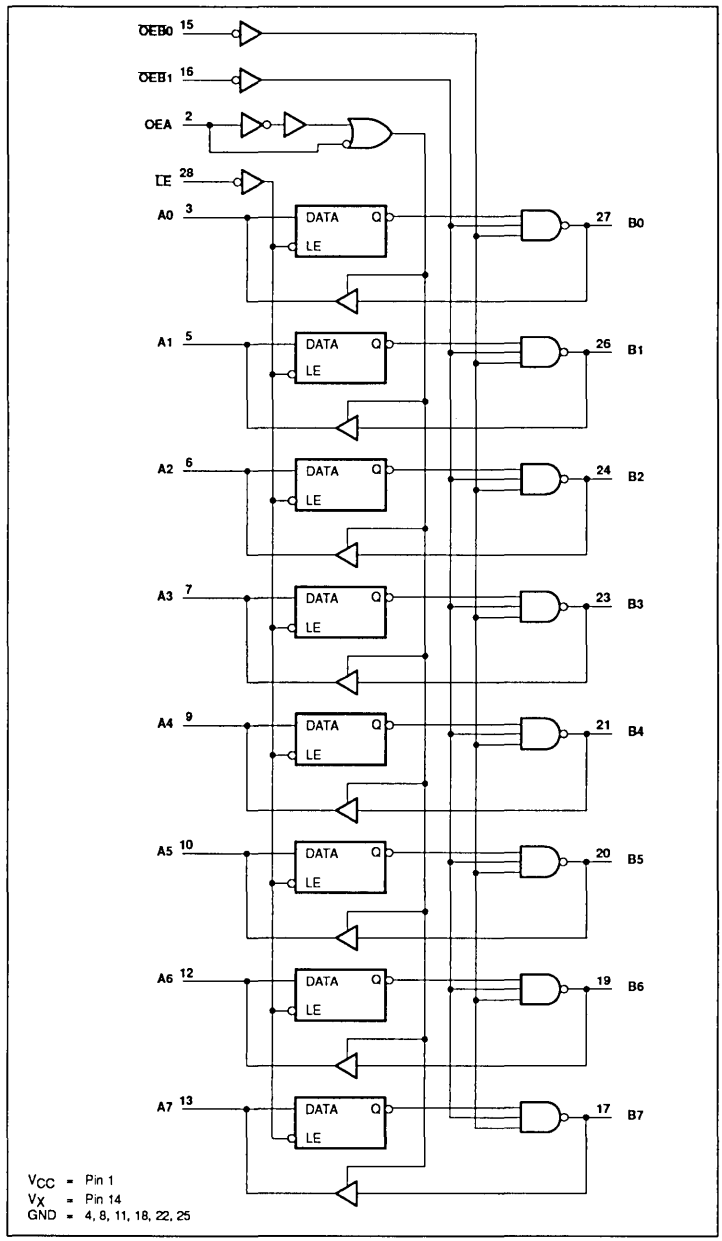
Product Spotlights

54/74F776 – Pi-Bus Transceiver

FEATURES

- Octal latched transceiver
- Drives heavily loaded backplanes with equivalent load impedances down to 10Ω
- High drive (100mA) open collector drivers on B-port
- Reduced voltage swing (1 volt) produces less noise and reduces power consumption
- High speed operation enhances performance of backplane buses and facilitates incident wave switching
- Compatible with Pi-Bus and IEEE 896 Futurebus Standards
- Built-in precision band-gap reference provides accurate receiver thresholds and improved noise immunity
- Controlled output ramp and multiple GND pins minimize ground bounce
- Glitch-free power up/power down operation
- Multiple package options
- Industrial temperature range available (-40°C to +80°C)

LOGIC DIAGRAM



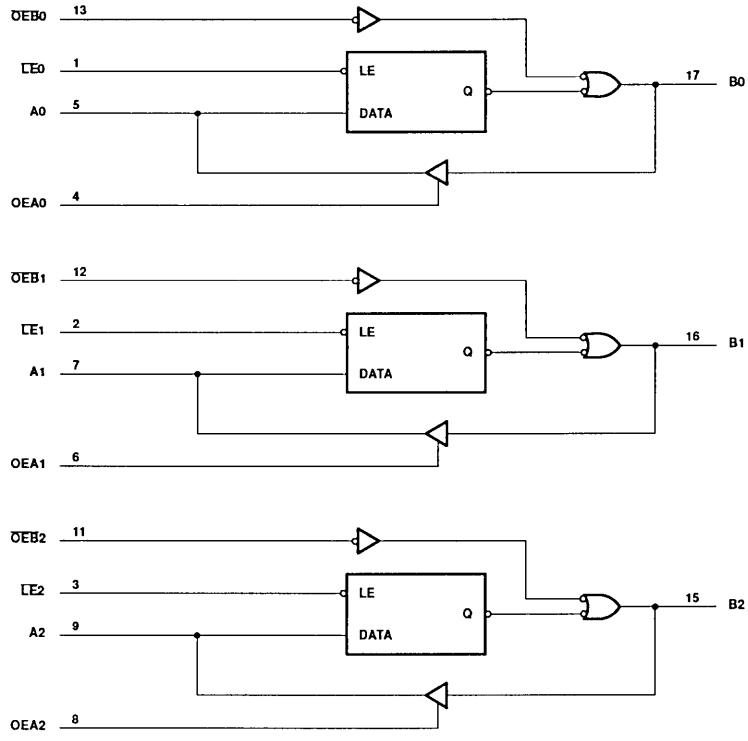
Product Spotlights

54F777 –Triple Bidirectional Latched Bus Transceiver (3-State + Open Collector)

FEATURES

- Latching transceiver
- High drive open collector output current with minimum output swing
- Compatible with Test Mode (TM) Bus specification
- Controlled output ramp
- Multiple package options

LOGIC DIAGRAM



V_{CC} = Pin 20
V_X = Pin 19
GND = Pin 10, 14, 18

Product Spotlights

74F711A/711-1, 74F712A/712-1 – Multiplexers

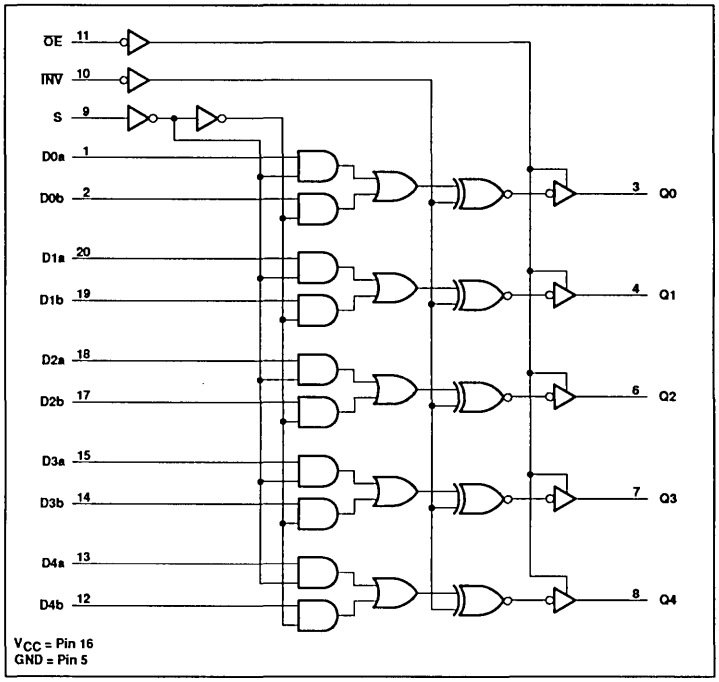
FEATURES for 74F711A/711-1

- Consists of five 2-to-1 multiplexers
- High impedance PNP base inputs for reduced loading (20μA in High and Low states)
- Designed for address multiplexing of dynamic RAM and other applications
- Output inverting/non-inverting option
- 74F711-1 offers 30Ω output impedance characteristics
- Outputs sink 64mA ('F711A only)

FEATURES for 74F712A/712-1

- Consists of five 3-to-1 multiplexers
- High impedance PNP base inputs for reduced loading (20μA in High and Low states)
- Designed for address multiplexing of dynamic RAM and other applications
- 74F712-1 offers 30Ω output impedance characteristics
- Outputs sink 64mA ('F712A only)

LOGIC DIAGRAM



Product Spotlights

74F723A/723-1, 74F725A/725-1 – Multiplexers

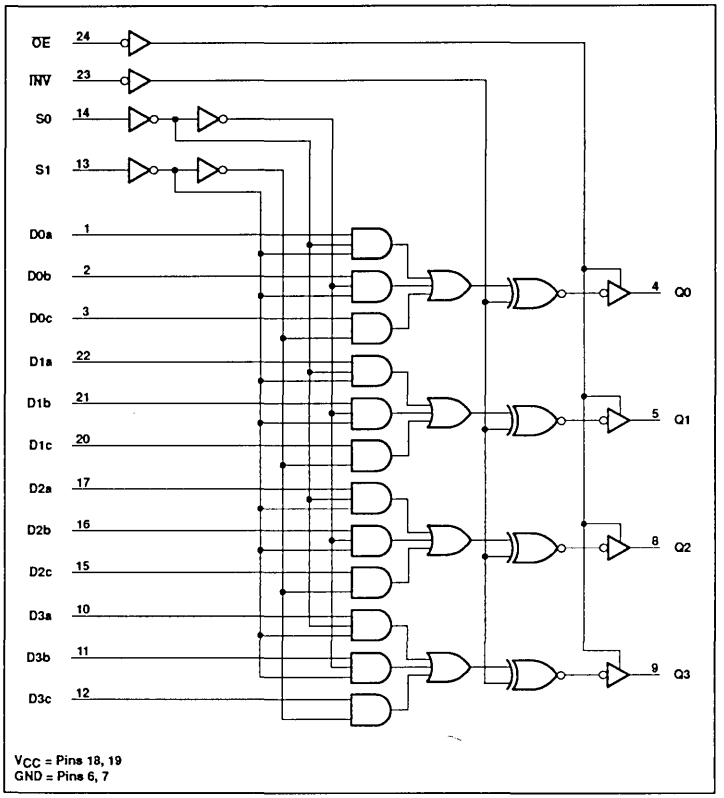
FEATURES for 74F723A/723-1

- Consists of four 3-to-1 multiplexers
- High impedance PNP base inputs for reduced loading (20μA in High and Low states
- Inverting or non-inverting data path capability by an invertint (INV) input
- Designed for address multiplexing of dynamic RAM and other applications
- Multiple side pins for V_{CC} and GND to reduce lead inductance (improves speed and noise immunity)
- 3-State outputs sink 64mA ('F723 only)
- 74F723-1 offers 30Ω output impedance characteristics

FEATURES for 74F725A/725-1

- Consists of four 4-to-1 multiplexers
- High impedance PNP base inputs for reduced loading (20μA in High and Low states
- Equivalent to two 'F253s without 3-State
- Outputs sink 48mA ('F725A only)
- 74F725-1 offers 30Ω output impedance characteristics

LOGIC DIAGRAM



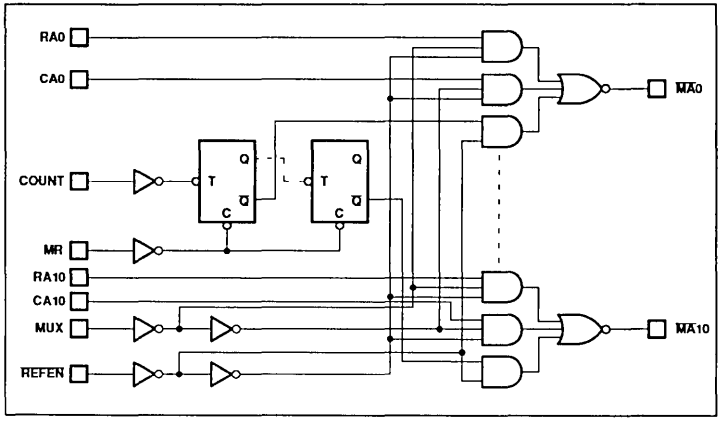
Product Spotlights

74F1762 – Memory Address Multiplexer

FEATURES

- Provides refresh and multiplexed row and column addresses for DRAMs
- Addressing up to 4MBit DRAMs
- Compatible with 74F171 DIVC and other DRAM controllers
- High-performance outputs
- High-speed adress multiplexing
- On-chip 11-bit refresh counter

LOGIC DIAGRAM

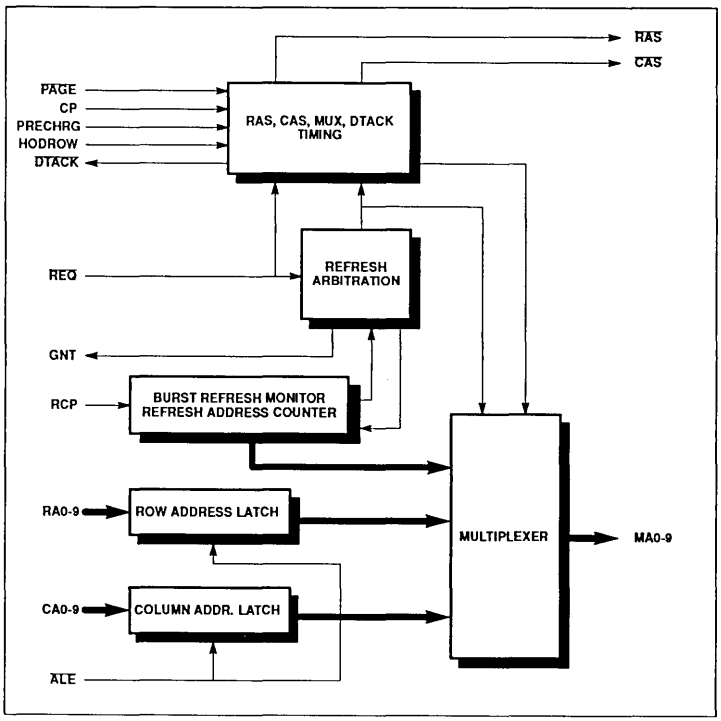


74F1763 – Intelligent DRAM Controller (IDC)

FEATURES

- DRAM signal timing generator
- Automatic refresh circuitry
- Selectable row address hold and RAS precharge times
- Facilitates page mode accesses
- Controls 1Mbit DRAMs
- Intelligent burst-mode refresh after page-mode access cycles

BLOCK DIAGRAM



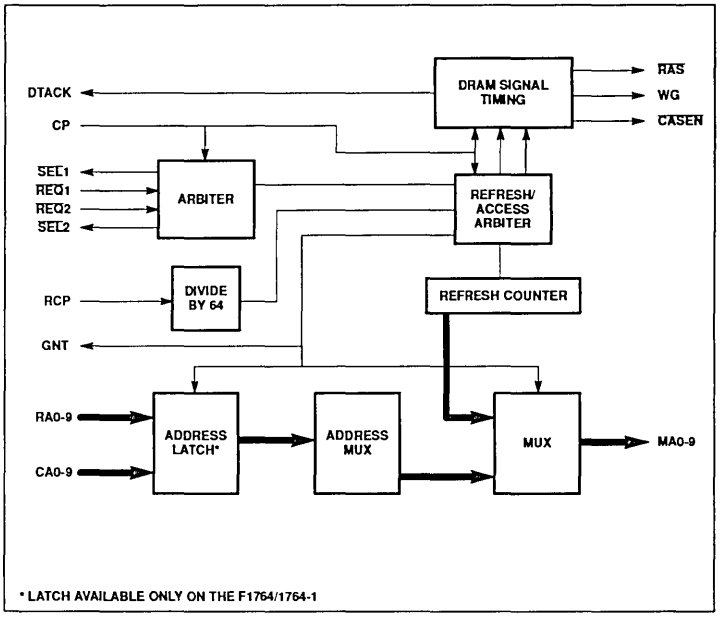
Product Spotlights

74F1764/1765 74F1764-1/1765-1 – 1Megabit DRAM Dual-Ported Controller

FEATURES

- Allows two microprocessors to access the same bank of dynamic RAM
- Performs arbitration, signal timing, addres multiplexing and refresh
- 10 address output pins allow direct control of up to 1Mbit dynamic RAMs
- External address multiplexing enables control of 4Mbit (or reater) dynamic RAMs
- Separate refresh clock allows adjustable refresh timing
- 74F1764/F1764-1 have on-chip 20-bit address input latch
- Allows control of dynamic RAMs with row access times down to 40ns
- 74F1764/F1765 output drivers designed for incident wave switching
- 74F1764-1/F1765-1 output drivers designed for first reflected wave switching

BLOCK DIAGRAM



74F5074 – Flip-Flop/Clock Driver

FEATURES

- Metastable immune characteristics
- Propagation delay skew and output to output skew guaranteed less than 1.5ns
- High source current (I_{OH} = 15mA) ideal for clock driver applications
- Pinout compatible with 74F74
- See 74F50728 for Synchronizing Cascaded D-Type Flip-Flop
- See 74F50729 for Synchronizing Dual D-Type Flip-Flop with Edge-Triggered Set and Reset
- See 74F50109 for Synchronizing Dual J-K Positive Edge-Triggered Flip-Flops

74F50109 – Flip-Flop/Clock Driver

FEATURES

- Metastable immune characteristics
- Propagation delay skew and output to output skew guaranteed less than 1.5ns
- High source current (I_{OH} = 15mA) ideal for clock driver applications
- Pinout compatible with 74F109
- See 74F5074 for Synchronizing Dual D-Type Flip-Flop
- See 74F50728 for Synchronizing Cascaded D-Type Flip-Flop
- See 74F50729 for Synchronizing Dual D-Type Flip-Flop with Edge-Triggered Set and Reset

Product Spotlights

74F50728 – Flip-Flop

FEATURES
- Metastable immune characteristics
- Propagation delay skew and output to output skew less than 1.5ns
- See 74F5074 for Synchronizing Dual D-Type Flip-Flop
- See 74F50109 for Synchronizing Dual J-$\overline{K}$ Positive Edge-Triggered Flip-Flops
- See 74F50729 for Synchronizing Dual D-Type Flip-Flop with Edge-Triggered Set and Reset
- Industrial temperature range available (-40°C to +85°C)

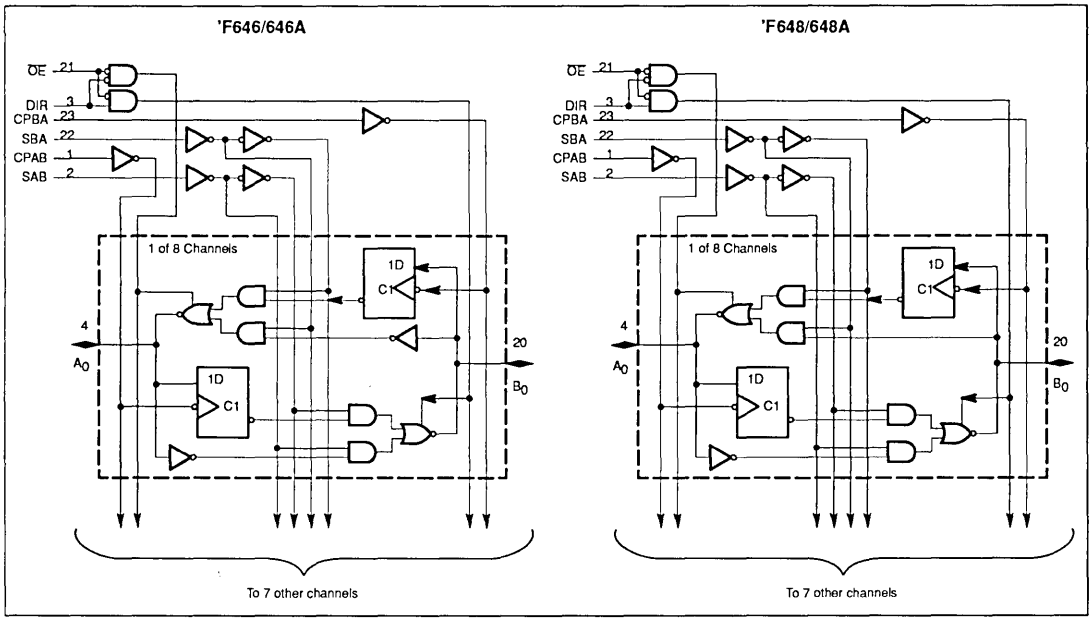
74F50729 – Flip-Flop/Clock Driver

FEATURES
- Metastable immune characteristics
- Propagation delay skew and output to output skew less than 1.5ns
- High source current (I_{OH} = 15mA) ideal for clock driver applications
- See 74F5074 for Synchronizing Dual D-Type Flip-Flop
- See 74F50109 for Synchronizing Dual J-$\overline{K}$ Positive Edge-Triggered Flip-Flops
- See 74F50728 for Synchronizing Cascaded Dual D-Type Flip-Flop

74F646/646A, 74F648/648A – Transceivers/Registers

FEATURES
- Combines 54F245 and 54F374 type functions in one chip
- High impedance base inputs for reduced loading (70μA in High and Low states)
- Independent registers for A and B buses
- Multiplexed real-time and stored data
- Choice of non-inverting and inverting data paths
- Controlled ramp outputs for 'F646A/'F648A
- 3-State outputs
- 300 mil wide 24-pin (Slim Dip) package

LOGIC DIAGRAM



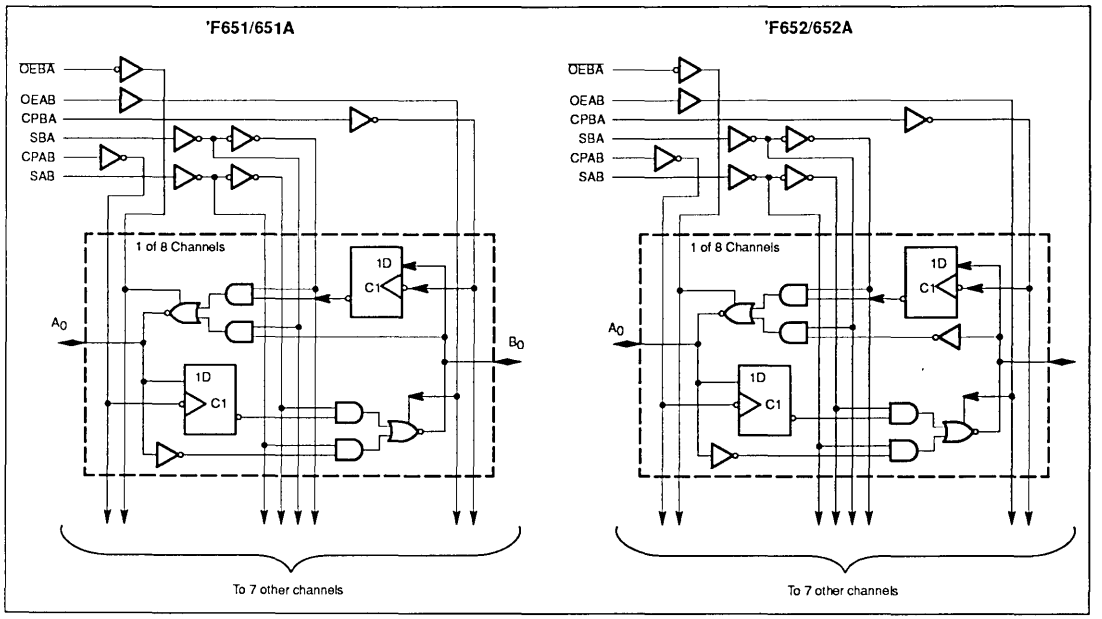
Product Spotlights

74F651/651A, 74F652/652A – Transceivers/Registers

FEATURES

- Combines 54F245 and 54F374 type functions in one chip
- High impedance base inputs for reduced loading (70μA in High and Low states)
- Independent registers for A and B buses
- Multiplexed real-time and stored data
- Choice of non-inverting and inverting data paths
- 3-State outputs

LOGIC DIAGRAM



74HC/HCT5555 – Programmable Delay Timer with Oscillator

FEATURES

- Positive and negative edge triggered
- Retriggerable or non-retriggerable
- Programmable delay
  minimum: 100ns
  maximum: depends on input frequency and division ratio
- Divide by range of 2 to 2^{24}
- Direct reset terminates output pulse
- Very low power consumption in triggered start mode
- 3 oscillator operation modes:
  RC oscillator
  Crystal oscillator
  External oscillator
- Device is unaffected by variations in temperature and V_{CC}, when using an external oscillator
- Automatic power-on reset
- Schmitt trigger action on both trigger inputs
- Direct drive for power transistor
- Output capability: 20mA
- I_{CC} category: MSI

BiCMOS Transceivers Slash Board Space

The MB2244 16-bit buffer line driver and the MB2245 16-bit transceiver pack increased functionality into half the board space previously required.

Two members of the industry's first family of Advanced BiCMOS interface logic devices featuring 16-bit word widths are now available from Signetics. The MB2244 16-bit buffer line driver and the MB2245 16-bit transceiver pack increased functionality into half the board space previously required. These MULTIBYTE™ products offer 64mA of output drive, zero static power dissipation and 4.6ns propagation times.

Such product advancements are particularly important because, as processor speeds increase and memory access times decrease, bus interface performance and function become more critical. And as bus widths increase to accelerate system performance, bus interface devices begin to crowd out other functions on the PC board.

However, the MULTIBYTE™ devices are available in 52-pin JEDEC-registered Quad Flat Packs (QFPs), which require only 174mm^2 of board space. Two equivalent 8-bit parts in DIPs need 480mm^2 and 310mm^2 is necessary for two SOLs. Surface-mount QFPs are expected to become the world-standard package of choice for high pin-count devices, due to their compact size and increased performance through uniform pin inductance.

Because MULTIBYTE™ products free valuable board real estate for other functions, they are ideal for high-density VME Bus and other applications requiring multiple bytes of functionality including high-performance personal computer applications and systems switching between 16- and 32-bit data buses. These devices can also enhance the speed and performance characteristics of the board.

The MB2244 and MB2245 will be followed by the MB2543 latched transceiver and the MB2646 16-bit registered transceiver. These parts are 16-bit BiCMOS versions of the standard '244, '245, '543, and '646 functions. A total of 20 functions are planned for introduction in the near future.

MULTIBYTE is a trademark of Signetics Company.

Product Spotlights

MB2241 – 16-Bit Buffer/Line Driver (3-State)

Preliminary Specification

FEATURES

- **16-bit bus interface**
- **Multiple V_{CC} and GND pins minimize switching noise**
- **3-State buffers**
- **Output capability: +64mA/-32mA**
- **Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17**
- **ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model**

DESCRIPTION

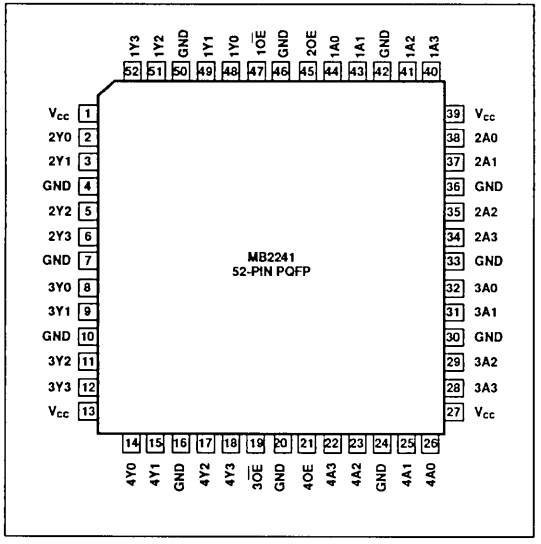
The MB2241 high-performance BiCMOS device combines low static and dynamic power dissipation with high speed and high output drive.

The MB2241 device is a 16-bit buffer that is ideal for driving bus lines. The device features four Output Enables (1$\overline{OE}$, 2OE, 3$\overline{OE}$, 4OE), each controlling four of the 3-State outputs.

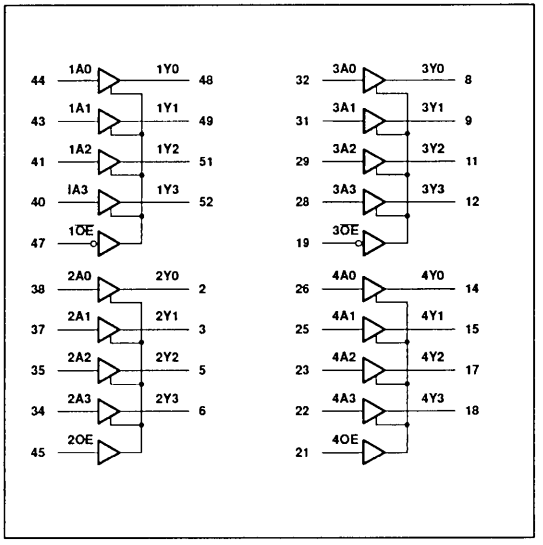
ORDERING INFORMATION

DESCRIPTION	TEMP. RANGE	ORDER CODE
52-Pin Plastic QFP	-40°C to +85°C	MB2241B

PIN CONFIGURATION



LOGIC DIAGRAM



Product Spotlights

MB2244 – 16-Bit Buffer/Line Driver (3-State)

Objective Specification

FEATURES

- **Double byte functionality**
- **3-State outputs**
- **Output capability: +64mA/-32mA**
- **High signal integrity/low ground bounce**
- **Low simultaneous switching propagation delay degradation**
- **Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17**
- **ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model**

DESCRIPTION

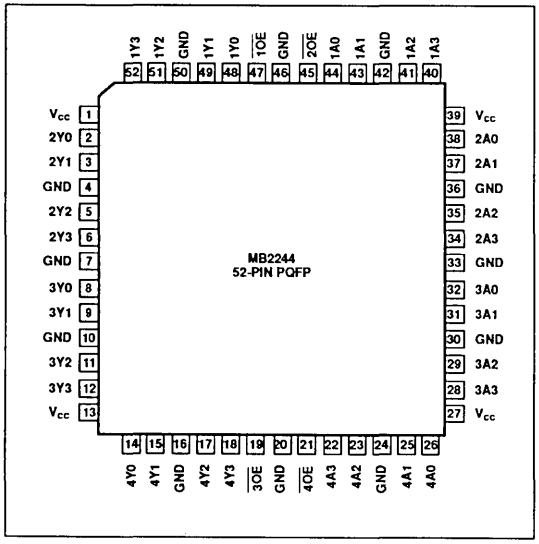
The MB2244 high-performance Advanced BiCMOS device combines high speed, high output drive and low static and dynamic power dissipation.

The MB2244 device is a 16-bit buffer which operates identical to two industry standard '244 functions. It is ideal for driving bus lines or buffering memory address registers. The device contains four Output Enables (1$\overline{OE}$, 2$\overline{OE}$, 3$\overline{OE}$, 4$\overline{OE}$), each controlling four of the 3-State outputs.

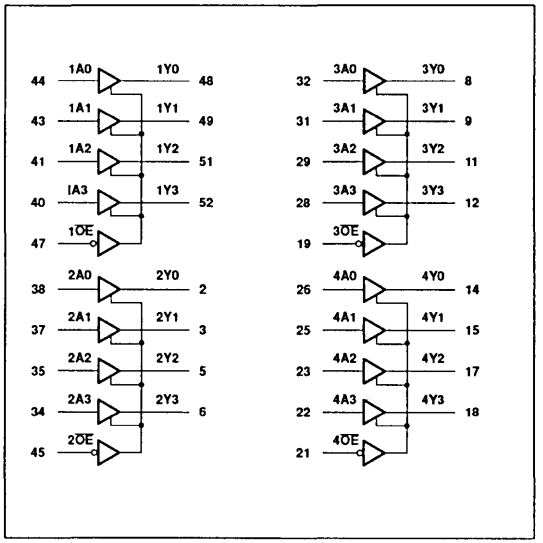
ORDERING INFORMATION

DESCRIPTION	TEMP. RANGE	ORDER CODE
52-Pin Plastic QFP	-40°C to +85°C	MB2244B

PIN CONFIGURATION



LOGIC DIAGRAM



Product Spotlights

MB2245 – Dual Octal Transceivers with Direction Pins (3-State)

Preliminary Specification

FEATURES

- **16-bit bidirectional bus interface**
- **Multiple V_{CC} and GND pins minimize switching noise**
- **3-State buffers**
- **Output capability: +64mA/-32mA**
- **Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17**
- **ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model**

DESCRIPTION

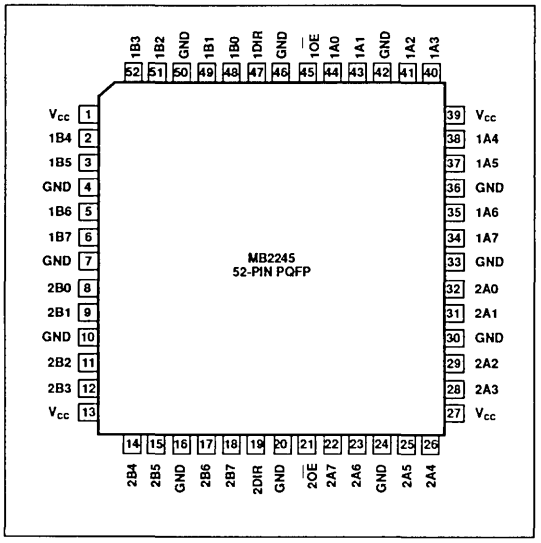
The MB224 high-performance BiCMOS device combines low static and dynamic power dissipation with high speed and high output drive.

The MB2245 device is a dual octal transceiver featuring non-inverting 3-State bus compatible outputs in both send and receive directions. The control function implementation minimizes external timing requirements. The device features two Output Enable ($1\overline{OE}$, $2\overline{OE}$) inputs for easy cascading and two Direction (1DIR, 2DIR) inputs for direction control.

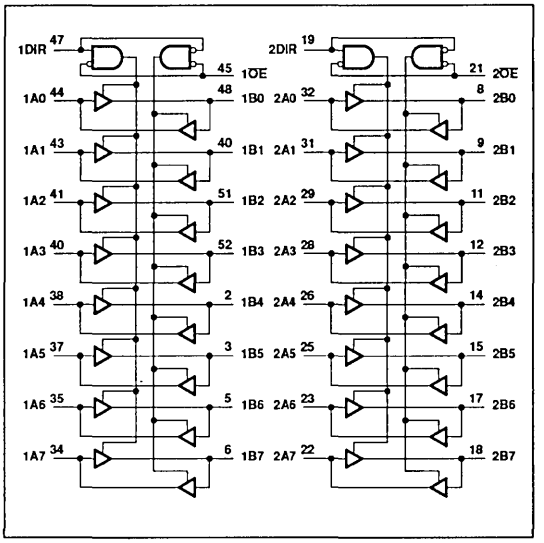
ORDERING INFORMATION

DESCRIPTION	TEMP. RANGE	ORDER CODE
52-Pin Plastic QFP	-40°C to +85°C	MB2245B

PIN CONFIGURATION



LOGIC DIAGRAM



Product Spotlights

MB2541 – Dual Octal Buffer/Line Drivers (3-State)

Preliminary Specification

FEATURES

- **16-bit bus interface**
- **Multiple V_{CC} and GND pins minimize switching noise**
- **Provides ideal interface and increases fan-out of MOS Microprocessors**
- **Efficient pinout to facilitate PC board layout**
- **3-State buffer outputs sink 64mA and source 32mA**
- **Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17**
- **ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model**

DESCRIPTION

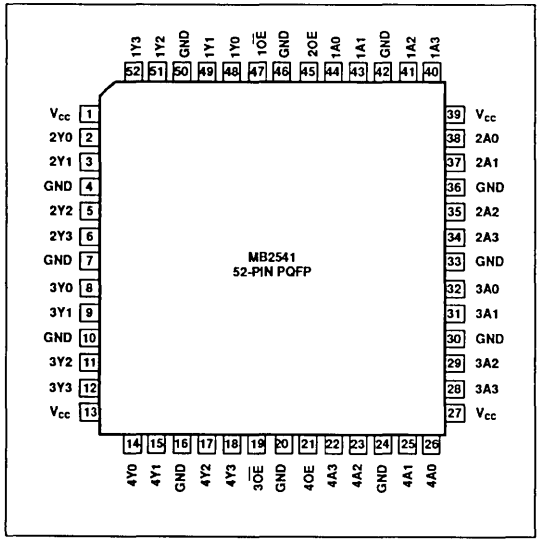
The MB2541 high-performance BiCMOS device combines low static and dynamic power dissipation with high speed and high output drive.

The MB2541 has two octal buffers that are ideal for driving bus lines. The outputs are all capable of sinking 64mA and sourcing 32mA.

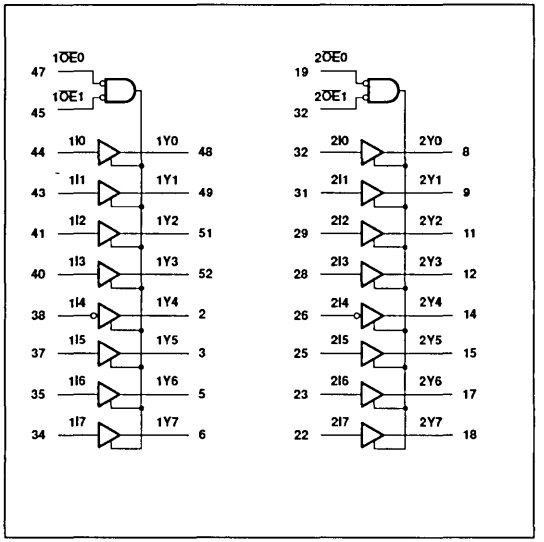
ORDERING INFORMATION

DESCRIPTION	TEMP. RANGE	ORDER CODE
52-Pin Plastic QFP	-40°C to +85°C	MB2541B

PIN CONFIGURATION



LOGIC DIAGRAM



Product Spotlights

MB2623 – Dual Octal Transceiver with Dual Enable, Non-Inverting (3-State)

Preliminary Specification

FEATURES

- **16-bit bidirectional bus interface**
- **3-State buffers**
- **Multiple V_{CC} and GND pins minimize switching noise**
- **Output capability: +64mA/-32mA**
- **Latch-up protection exceeds 500mA per JEDEC JC40.2 Std 17**
- **ESD protection exceeds 2000V per MIL STD 883C Method 3015.6 and 200V per Machine Model**

DESCRIPTION

The MB2623 high-performance BiCMOS device combines low static and dynamic power dissipation with high speed and high output drive.

The MB2623 device is a dual octal transceiver featuring non-inverting 3-State bus compatible outputs in both send and receive directions. The MB2623 is designed for asynchronous two-way communication between data buses.

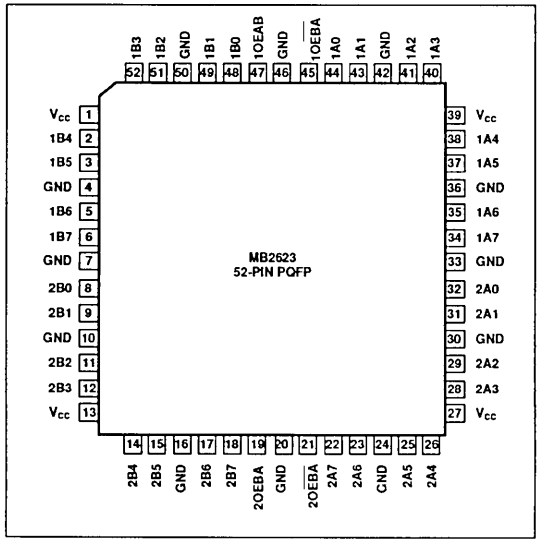
The control function implementation allows for maximum flexibility in timing.

This device allows data transmission from the A bus to the B bus or from the B bus to the A bus, depending upon the logic levels at the Enable Inputs ($n\overline{OEB}$ and nOEAB). The Enable inputs can be used to disable the device so that the buses are effectively isolated.

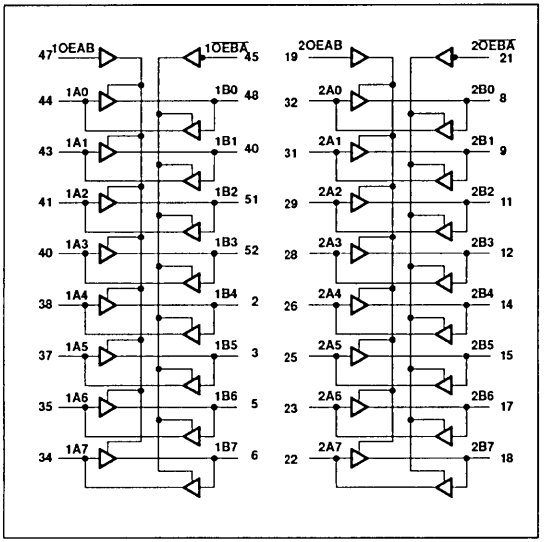
ORDERING INFORMATION

DESCRIPTION	TEMP. RANGE	ORDER CODE
52-Pin Plastic QFP	-40°C to +85°C	MB2623B

PIN CONFIGURATION



LOGIC DIAGRAM

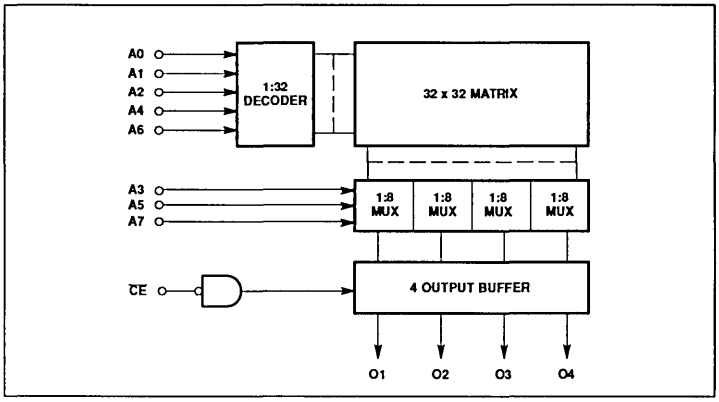


Product Spotlights

10149A – 1K-Bit ECL Bipolar PROM

FEATURES
- Address access time: 10ns max
- Power dissipation: 0.66mW/bit typ
- High-impedance inputs (50KΩ pulldown)
- One Chip Enable input
- Open emitter outputs (50Ω drive)
- On-chip address decoding
- No separate fusing pins
- Fully compatible with ECL 10K series

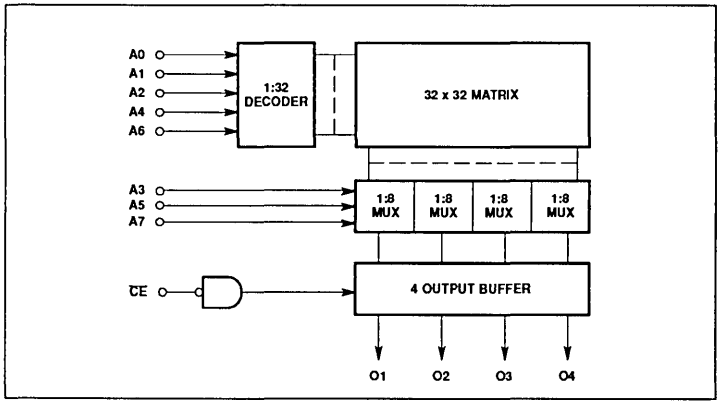
LOGIC DIAGRAM



100149A – 1K-Bit ECL Bipolar PROM

FEATURES
- Address access time: 10ns max
- Power dissipation: 0.66mW/bit typ
- High-impedance inputs (50KΩ pulldown)
- One Chip Enable input
- Open emitter outputs (50Ω drive)
- On-chip address decoding
- No separate fusing pins
- Fully compatible with ECL 100K series

LOGIC DIAGRAM



100124/100124A – Hex TTL-to-ECL Translator

FEATURES
- Typical propagation delay: 1.70ns
- Typical ECL supply current ($-I_{EE}$): 96mA for the 100124 and 71mA for the 100124A
- Typical TTL supply current (I_{TTL}): 44mA for the 100124 and 10mA for the 100124A

100125 – Hex ECL-to-TTL Translator

FEATURES
- Typical propagation delay: 2.2ns
- Typical ECL supply current ($-I_{EE}$): 65mA
- Typical TTL supply current (I_{TTL}): 75mA

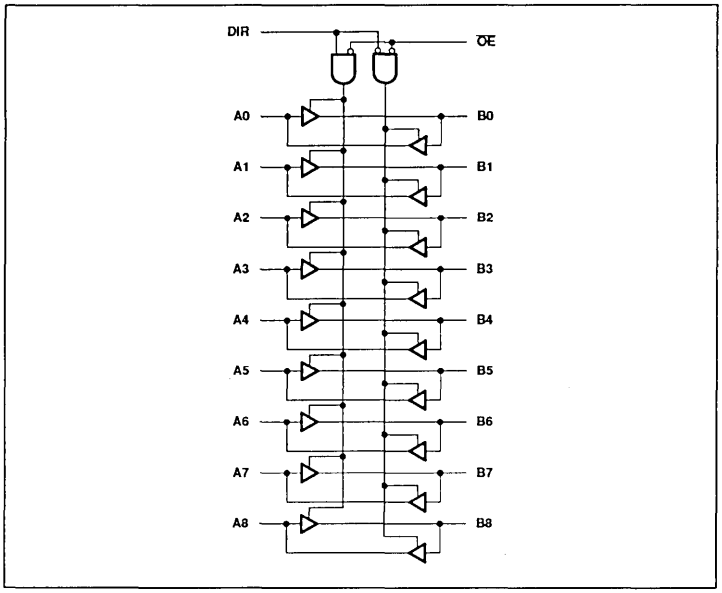
Product Spotlights

100790 – 9-Bit Transceiver

FEATURES

- Typical propagation delay from input to output: 1.3ns
- Typical supply current ($-I_{EE}$): 240mA
- 3-State outputs eliminate bus impedance discontinuities and wire-OR problems
- 9-bit data width provides optimum handling of parity bit
- Drives 25Ω loads
- 4,000 Volt ESD protection for all pins

LOGIC DIAGRAM



Product Spotlights

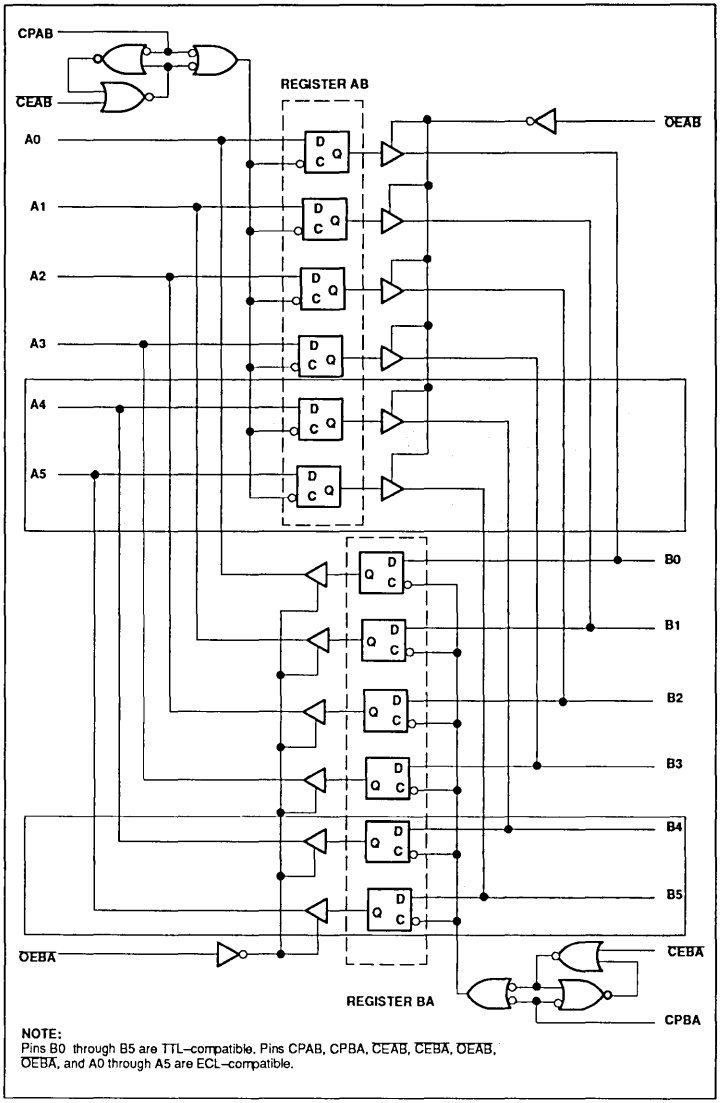
100982 – Hex ECL-TTL Translating Transceiver with Registers
100984 – Quad ECL-TTL Translating Transceiver with Registers

FEATURES

- Typical propagation delay from clock to output: 3.5ns
- Typical ECL supply current (-IECL): 110mA
- Typical TTL supply current (ITTL): 25mA
- Low logic level of ECL output doubles as a high impedance state
- ECL output drives 25Ω loads
- 4,000 Volt ESD protection for all pins
- Controlled edge rates for quieter bus operation

NOTE: *Shaded area included only in 100982*

LOGIC DIAGRAM



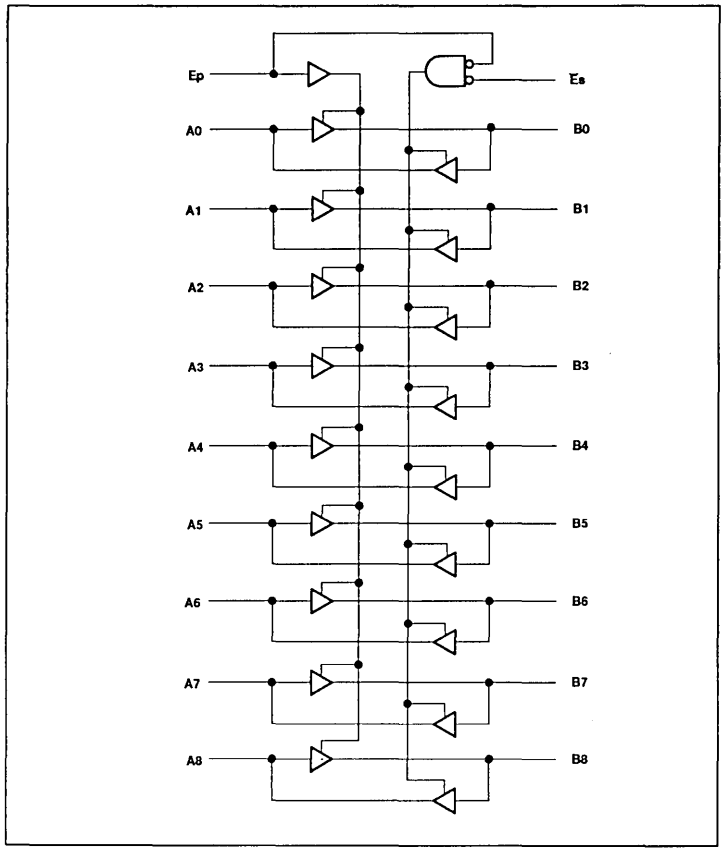
Product Spotlights

100990 – 9-Bit Transceiver

FEATURES

- Typical propagation delay from input to output: 1.3ns
- Typical supply current ($-I_{EE}$): 240mA
- 3-state outputs eliminate bus impedance discontinuities and wire-OR problems
- 9-bit data width provides optimum handling of parity bit
- Drives 25Ω loads
- 4,000 Volt ESD protection for all pins
- Controlled edge rates for quieter bus operation

LOGIC DIAGRAM



Product Spotlights

PROGRAMMABLE LOGIC

PHD16N8-5 – Programmable High-Speed Decoder Logic (16 × 16 × 8)

DESCRIPTION

The PHD16N8-5 is an ultra fast Programmable High-speed Decoder featuring a 5ns maximum propagation delay. The architecture has been optimized using Philips Components-Signetics state-of-the-art bipolar oxide isolation process coupled with titanium-tungsten fuses to achieve superior speed in any design.

The PHD16N8-5 is a single level logic element comprised of 10 fixed inputs, 8 AND gates, and 8 outputs of which 6 are bidirectional. This gives the device the ability to have as many as 16 inputs. Individual 3-State control of all outputs is also provided.

The device is field-programmable, enabling the user to quickly generate custom patterns using standard programming equipment. Proprietary designs can be protected by programming the security fuse.

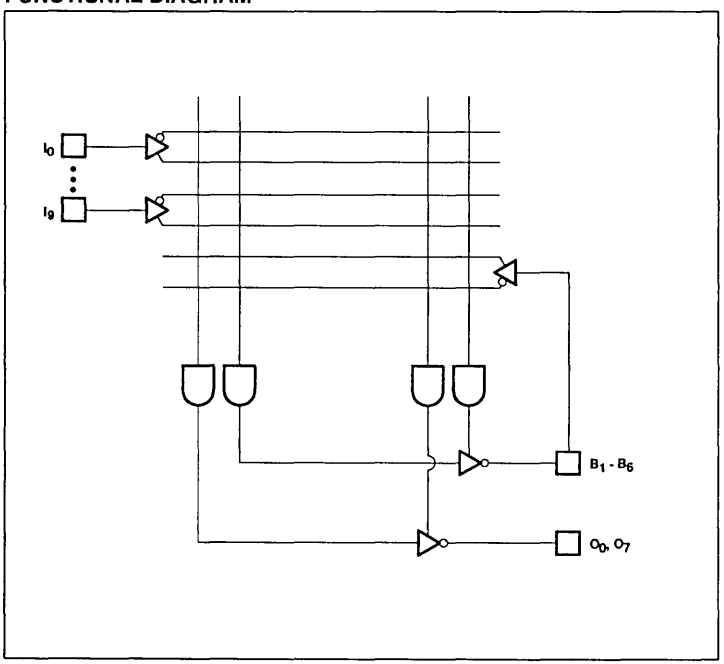
FEATURES

- **Ideal for high speed system decoding**
- **Super high speed at 5ns t_{PD}**
- **10 dedicated inputs**
- **8 outputs**
  - **6 bidirectional I/O**
  - **2 dedicated outputs**
- **Security fuse to prevent duplication of proprietary designs.**
- **Individual 3-State control of all outputs**
- **Field-programmable on industry standard programmers**
- **Available in 20-pin Plastic DIP and 20-Pin PLCC**

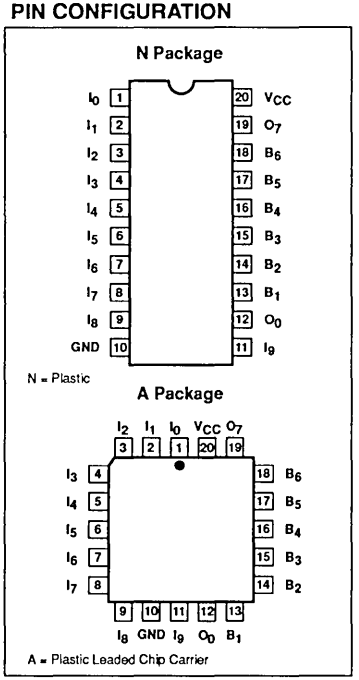
APPLICATIONS

- **High speed memory decoders**
- **High speed code detectors**
- **Random logic**
- **Peripheral selectors**
- **Machine state decoders**
- **Footprint compatible to 16L8**
- **Fuse/Footprint compatible to TIBPAD**

FUNCTIONAL DIAGRAM



PIN CONFIGURATION



Product Spotlights

PLC415-16 – CMOS Programmable Logic Sequencer (17 × 68 × 8)

DESCRIPTION

The PLC415-16 PLD is a CMOS Programmable Logic Sequencer of the Mealy type. The PLC415-16 is a pin-for-pin compatible, functional superset of the PLS105 and PLUS405 Bipolar Programmable Logic Sequencer devices.

The PLC415 is ideally suited for high density, power sensitive controller functions. The Power Down feature provides true CMOS standby power levels of less than 100µA. The EPROM-based process technology supports operating frequencies of 16 to 20MHz. The PLC415-16 has been designed to accept both CMOS and TTL input levels to facilitate logic integration in almost any system environment.

The PLC415 architecture has been tailored for state machine functions. Both arrays are programmable, thus providing full interconnectability. Any one or all of the 64 AND transition terms can be connected to any (or all) of the 8 buried state and 8 output registers.

Two clock sources enable the design of 2 state machines on one chip. The J-K flip-flops provide the added flexibility of the toggle function which is indeterminate on S-R flip-flops. The programmable initialization feature supports asynchronous initialization of the state machine to any user defined pattern. Separate INIT functions and Output Enable functions are controllable either from the array or from an external pin.

The unique Complement Array feature supports complex ELSE transition statements with a single product term. The PLC415-16 has 2 Complement Arrays which allows the user to design two independent complement functions. this is particularly useful if two state machines have been implemented on one chip.

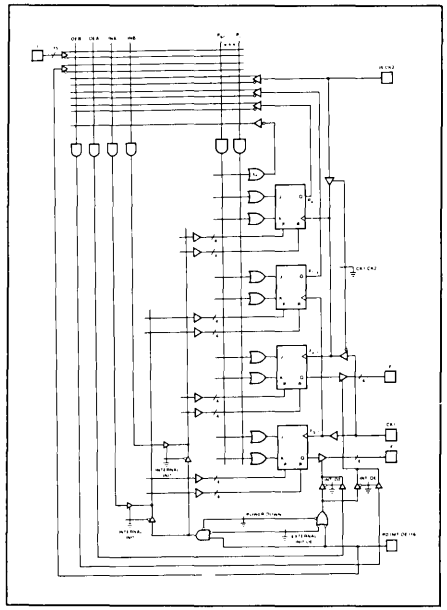
FEATURES

- **Pin-for-Pin compatible, functional superset of PLS105/A and PLUS405 Logic Sequencers**
- **Zero standby power of less than 100µA (worst case)**
  - **Power dissipation at f_{MAX} = 80mA (worst case)**
- **CMOS and TTL compatible**
- **Programmable asynchronous Initialization and OE functions**
  - **Controllable from AND array or external source**
- **17 input variables**
- **8 output functions**
- **68 product terms**
  - **64 transition terms**
  - **4 control terms**
- **8-bit State Register**
- **8-bit Output Register**
- **2 Transition Complement Arrays**
- **Multiple clocks**
- **Diagnostic test modes features for access to state and output registers**
- **Power-on preset of all registers to "1"**
- **J-K flip-flops**
  - **Automatic Hold states**
- **Security fuse**
- **3-State outputs**

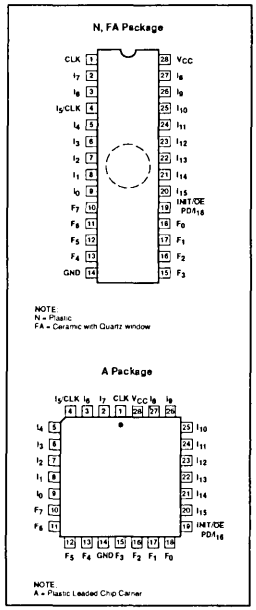
APPLICATIONS

- **Interface protocols**
- **Sequence detectors**
- **Peripheral controllers**
- **Timing generators**
- **Sequential circuits**
- **Elevator controllers**
- **Security locking systems**
- **Counters**
- **Shift registers**

FUNCTIONAL DIAGRAM



PIN CONFIGURATIONS



Product Spotlights

PLC42VA12 – CMOS Programmable Logic Sequencer (42 × 105 × 12)

DESCRIPTION

The new PLC42VA12 CMOS PLD from Signetics exhibits a unique combination of the two architectural concepts that revolutionized the PLD marketplace.

The Signetics unique Output Macro Cell (OMC) embodies all the advantages and none of the disadvantages associated with the "V" type Output Macro Cell devices. This new design, combined with added functionality of two programmable arrays, represents a significant advancement in the configurability and efficiency of multi-function PLDs.

The most significant improvement in the Output Macro Cell structure is the implementation of the register bypass function. Any of the 10 J-K/D registers can be individually bypassed, thus creating a combinatorial I/O path from the AND array to the output pin. Unlike other "V" type devices, the register in the PLC42VA12 Macro Cell remains fully functional as a buried register. Both the combinatorial I/O and buried register have separate input paths (from the AND array). In most V-type architectures, the register is lost as a resource when the cell is configured as a combinatorial I/O. This feature provides the capability to operate the buried register independently from the combinatorial I/O.

The PLC42VA12 is an EPROM-based CMOS device. Designs can be generated using Signetics SNAP 16 design software or one of several other commercially available JEDEC standard PLD design software packages.

FEATURES

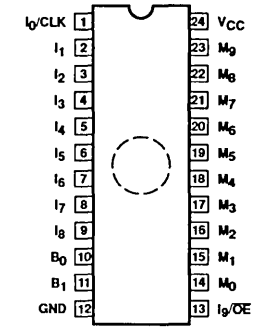
- **High-speed EPROM-based CMOS Multi-Function PLD**
  - **Super set of 22V10, 32VX10 and 20RA10 PAL® ICs**
- **Two fully programmable arrays eliminate "P-term Depletion"**
  - **Up to 64 P-terms per OR function**
- **Improved output macro cell structure**
  - **Individually programmable as:**
    - *** Registered output with feedback**
    - *** Registered input**
    - *** Combinatorial I/O with buried register**
  - **Bypassed registers are 100% functional with separate input and feedback paths**
  - **Individual Output Enable control functions**
    - *** From pin or AND array**
- **Eleven clock sources**
- **Register preload and diagnostic test mode features**
- **Security fuse**

APPLICATIONS

- **Mealy or Moore State Machines**
  - **Synchronous**
  - **Asynchronous**
- **Multiple, Independent State Machines**
- **10-bit ripple cascade**
- **Sequence recognition**
- **Bus protocol generation**
- **Industrial control**
- **A/D scanning**

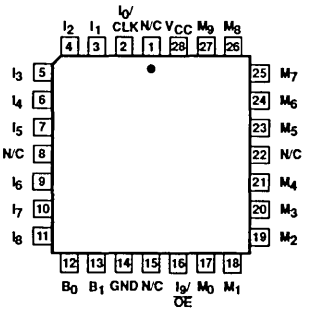
PIN CONFIGURATIONS

FA and N Packages



N = Plastic
FA = Ceramic with Quartz Window

A Package

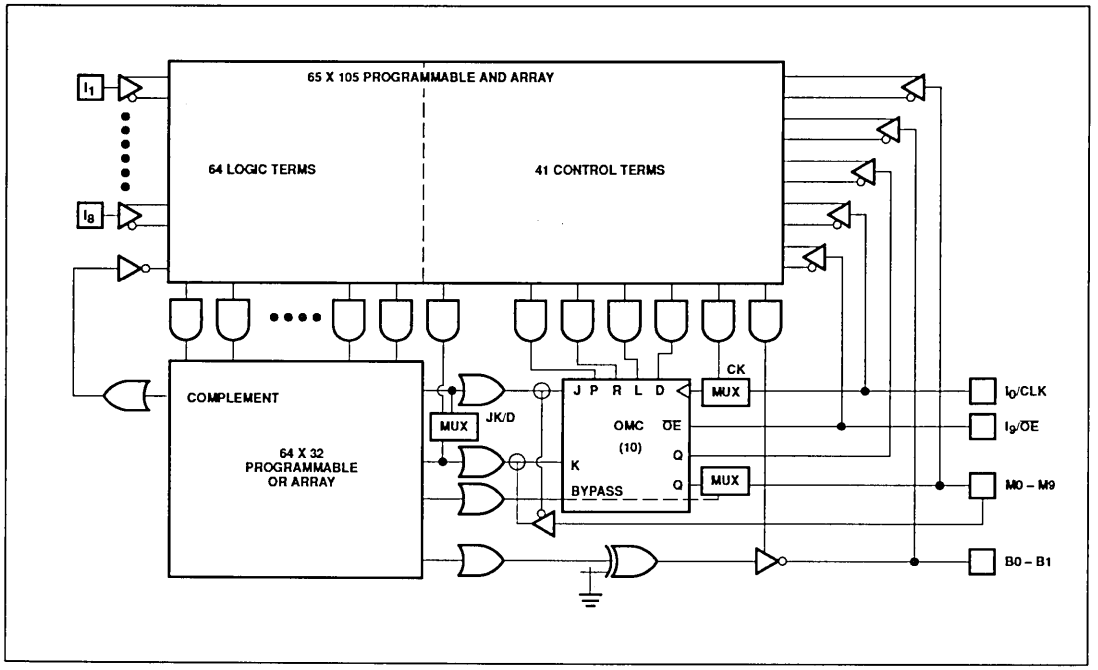


A = Plastic Leaded Chip Carrier

PAL is a registered trademark of Monolithic Memories, Inc., a wholly owned subsidiary of Advanced Micro Devices, Inc.

Product Spotlights

PLC42VA12 – BLOCK DIAGRAM



Product Spotlights

PLC18V8Z25/35/18V8ZI – Zero Standby Power Universal PAL®-Type Devices

DESCRIPTION

The PLC18V8Z35 and PLC18V8ZI are universal PAL-type devices featuring high performance and virtually zero-standby power for power sensitive applications. They are reliable, user-configurable substitutes for discrete TTL/CMOS logic. While compatible with TTL and HCT logic, the PLC18V8ZI can also replace HC logic over the V_{CC} range of 4.5 to 5.5V.

The PLC18V8Z is a two-level logic element comprised of 10 inputs, 74 AND gates (product terms) and 8 output Macro cells.

Each output features an "Output Macro Cell" which can be individually configured as a dedicated input, a combinatorial output, cr a registered output with internal feedback. As a result, the PLC18V8Z is capable of emulating all common 20-pin PAL devices to reduce documentation, inventory, and manufacturing costs.

A power-up reset function and a Register Preload function have been incorporated in the PLC18V8Z architecture to facilitate state machine design and testing.

With a standby current of less than 100µA and active power consumption of 1.5mA/MHz, the PLC18V8Z is ideally suited for power sensitive applications in battery operated/backed portable instruments and computers.

The PLC18V8Z is also processed to industrial requirements for operation over an extended temperature range of -40°C to +85°C and supply voltage of 4.5V to 5.5V.

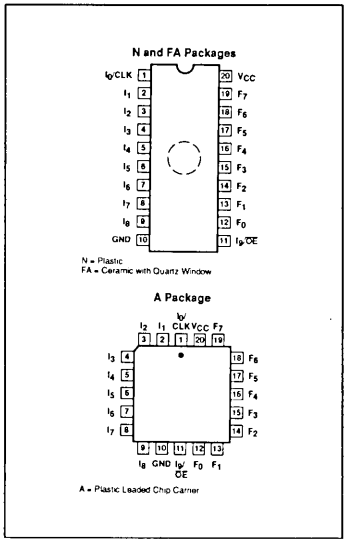
FEATURES

- **20-pin Universal Programmable Array Logic**
- **Virtually zero standby power**
- **Functional replacement for Series 20 PAL devices**
  - **I_{OL} = 24mA**
- **High-performance CMOS EPROM cell technology**
  - **Erasable**
  - **Reconfigurable**
  - **100% testable**
- **25/35ns propagation delay (comm)**
- **25/40ns propagation delay (Industrial)**
- **Up to 18 inputs and 8 input/output macro cells**
- **Programmable output polarity**
- **Power-up reset on all registers**
- **Register preload capability**
- **Synchronous Preset/Asynchronous Reset**
- **Security fuse to prevent duplication of proprietary designs**
- **Design support provided using Signetics SLICE or SIMPALII software development packages and other CAD tools for PLDS**
- **Available in 300mil-wide DIP with quartz window, plastic DIP (OTP) or PLCC (OTP)**

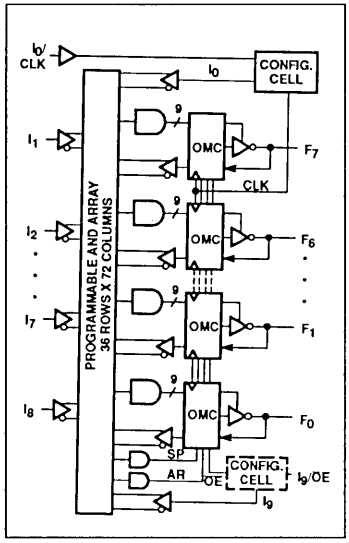
APPLICATIONS

- **Battery powered instruments**
- **Laptop and pocket computers**
- **Industrial control**
- **Medical Instruments**
- **Portable communications equipment**

PIN CONFIGURATIONS



FUNCTIONAL DIAGRAM



PAL is a registered trademark of Monolithic Memories, Inc., a wholly owned subsidiary of Advanced Micro Devices, Inc.

Product Spotlights

PLUS405-37/-45/-55 – Field-Programmable Logic Sequencers (16 × 64 × 8)

DESCRIPTION

The PLUS405 devices are bipolar, programmable state machines of the Mealy type. Both the AND and the OR array are user-programmable. All 64 AND gates are connected to the 16 external dedicated inputs (I_0 - I_{15}) and to the feedback paths of the 8 on-chip State Registers (Q_{P0} - Q_{P7}). Two complement arrays support complex IF-THEN-ELSE state transitions with a single product term (input variables C_0, $C_{1)}$.

All state transition terms can include True, False and Don't Care states of the controlling state variables. All AND gates are merged into the programmable OR array to issue the next-state and next-output commands to their respective registers. Because the OR array is programmable, any one or all of the 64 transition terms can be connected to any or all of the State and Output Registers.

All state (Q_{P0} - Q_{P7}) and output (Q_{F0} - Q_{F7}) registers are edge-triggered, clocked J-K flip-flops, with Asynchronous Preset and Reset options. The PLUS405 architecture provides the added flexibility of the J-K toggle function which is indeterminate on S-R flip-flops. Each register may be individually programmed such that a specific Preset-Reset pattern is initialized when the initialization pin is raised to a logic level "1". This feature allows the state machine to be asynchronously initialized to known internal state and output conditions prior to proceeding through a sequence of state transitions. Upon power-up, all registers are unconditionally preset to "1". If desired, the initialization input pin (INIT) can be converted to an $\overline{\text{Output Enable}}$ ($\overline{OE}$) function as an additional user-programmable feature.

Availability of two user-programmable clocks allows the user to design two independently clocked state machine functions consisting of four state and four output bits each.

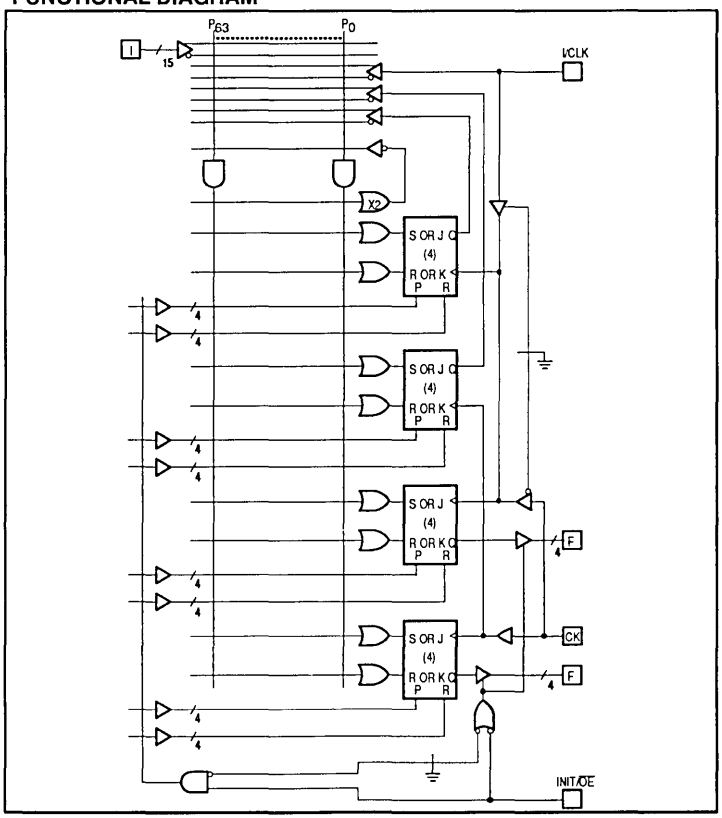
FEATURES

- **50, 58 and 62.5MHz minimum guaranteed clock rates**
- **37, 45 and 55MHz minimum guaranteed operating frequencies ($1/(t_{IS1} + t_{CKO1})$)**
- **Functional superset of PLS105/105A**
- **Field-programmable (Ti-W fusible link)**
- **16 input variables**
- **8 output functions**
- **64 transition terms**
- **8-bit State Register**
- **8-bit Output Register**
- **2 transition Complement Arrays**
- **Multiple clocks**
- **Programmable Asynchronous Initialization or $\overline{\text{Output Enable}}$**
- **Power-on preset of all registers to "1"**
- **"On-chip" diagnostic test mode features for access to state and output registers**
- **950mW power dissipation (typ.)**
- **TTL compatible**
- **J-K or S-R flip-flop functions**
- **Automatic "Hold" states**
- **3-State outputs**

APPLICATIONS

- **Interface protocols**
- **Sequence detectors**
- **Peripheral controllers**
- **Timing generators**
- **Sequential circuits**
- **Elevator contollers**
- **Security locking systems**
- **Counters**
- **Shift registers**

FUNCTIONAL DIAGRAM



Product Spotlights

PLUS173B/D/-10 – Programmable Logic Arrays (22 × 42 × 10)

DESCRIPTION

The PLUS173 PLDs are high speed, combinatorial Programmable Logic Arrays. The Signetics state-of-the-art Oxide Isolated Bipolar fabrication process is employed to produce propagation delays as short as 10ns.

The 24-pin PLUS173 devices have a programmable AND array and a programmable OR array. Unlike PAL ® devices, 100% product term sharing is supported. Any of the 32 logic product terms can be connected to any or all of the 10 output OR gates. Most PAL ICs are limited to 7 AND terms per OR function; the PLUS173 devices can support up to 32 input wide OR functions.

The polarity of each output is user-programmable as either Active-High or Active-Low, thus allowing AND-OR or AND-NOR logic implementation. This feature adds an element of design flexibility, particularly when implementing complex decoding functions.

The PLUS173 devices are user-programmable using one of several commercially available, industry standard PLD programmers.

FEATURES

- **I/O propagation delays (worst case)**
  - **PLUS173B – 15ns max.**
  - **PLUS173D – 12ns max.**
  - **PLUS173-10 – 10ns max.**
- **Functional superset of 20L10 and most other 24-pin combinatorial PAL devices**
- **Two programmable arrays**
  - **Supports 32 input wide OR functions**
- **12 inputs**
- **10 bidirectional I/O**
- **42 AND gates**
  - **32 logic product terms**
  - **10 direction control terms**
- **Programmable output polarity**
  - **Active-High or Active-Low**
- **Security fuse**
- **3-State outputs**
- **PLUS 173B/D – Power dissipation: 750mW (typ.)**
- **PLUS 173-10 – Power dissipation: 850mW (typ.)**
- **TTL compatible**

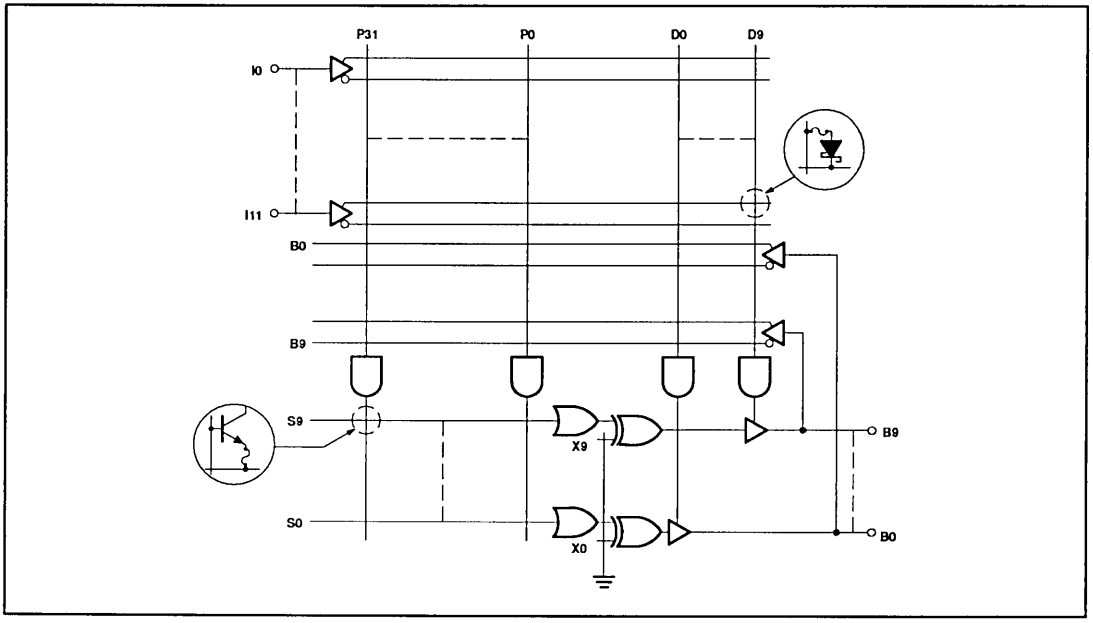
APPLICATIONS

- **Random logic**
- **Code converters**
- **Fault detectors**
- **Function generators**
- **Address mapping**
- **Multiplexing**

®PAL is a registered trademark of Advanced Micro Devices Corporation.

Product Spotlights

PLUS173B/D/-10 – FUNCTIONAL DIAGRAM



Product Spotlights

PML2552 – Programmable Macro Logic

FEATURES

- Full connectivity
- Scan test
- Power down mode
- Power on reset
- 100% testable
- High-Speed and Standard versions
- SNAP development system
  - Supports third-party schematic entry formats
  - Macro library
  - Versatile netlist format for design portability
  - Logic, timing, and fault simulation
- TTL compatible
- Power dissipation (TTL) = 630mW
- Power dissipation (CMOS) = 525mW
- Security fuse
- Reprogrammable

STRUCTURE

- 112 possible foldback NAND gates:
  - 96 internal NAND
  - 16 from the I/O macros
- 114 additional logic terms
- 53 possible inputs (with programmable polarity)
  - 29 dedicated inputs
  - 24 bidirectional I/Os
- 24 bidirectional pins
- 52 flip-flops
- 24 possible outputs with individual Output Enable control (8 with programmable polarity)
- Multiple independent clocks
- 20 Buried JK-type flip-flops with foldback (JKFFs):
  - 10 JKFFs with one shared preset signal and one shared clocked signal originating from the clock array.
  - 10 JKFFs with 10 independent clock signals originating from the clock array and 10 independent clear signals
- 258 inputs per NAND gate
- Bypassable input D-type flip-flop (DFFs)/Combinatorial inputs:
  - 16 DFFs/combinatorial inputs
  - DFFs clocked in two groups of eight
  - DFFs not bypassed in unprogrammed state
  - Independent bypass fuse on each DFF
- Inputs/bypassable D-type flip-flop outputs/foldback NAND gates:
  - 16 output DFFs/combinatorial inputs/outputs with individual Output Enable control
  - DFFs clocked in two groups of eight
  - DFFs not bypassed in unprogrammed state
  - Independent bypass fuse on each DFF
  - The DFF can be used as an internal DFF or an internal foldback NAND gate.
- Combinatorial inputs:
  - 9 dedicated inputs to the NAND array
  - 3 inputs optional to NAND array and/or clock array
  - 1 input optional to NAND array and/or clock array, and/or clock of Input D Flip-Flops (Group B)
- Separate clock array:
  - Separate clock array for JKFFs clock inputs
  - 4 inputs to clock array originate from NAND array
  - 4 inputs (with programmable polarity) directly from input pins
  - 10 inputs from Q outputs of JKFFs with clear
- Dedicated clocks:
  - One dedicated clock for input DFFs (Group A)
  - Two dedicated clocks for output DFFs
- Scan test feature:
  - Scan chain is implemented through the 20 buried JKFFs and 16 output DFFs
  - Pins SCI, SCM, and CKE1 are used to operate the scan test
- Power down mode
  - Dedicated pin (PD) freezes the circuit when brought to logic "1". The circuit remains in the same state prior to the logic "0" to logic "1" transition of the "PD" pin.
  - When in the power down mode, the SCI pin acts as the 3-State pin for the 24 outputs.
- Power on reset:
  - All flip-flops (16 input DFFs, 20 buried JKFFs, and 16 output DFFs) are reset to logic "0" after V_{CC} power on.

PROPAGATION DELAYS

- Delay per internal NAND gate = 15ns (typ)

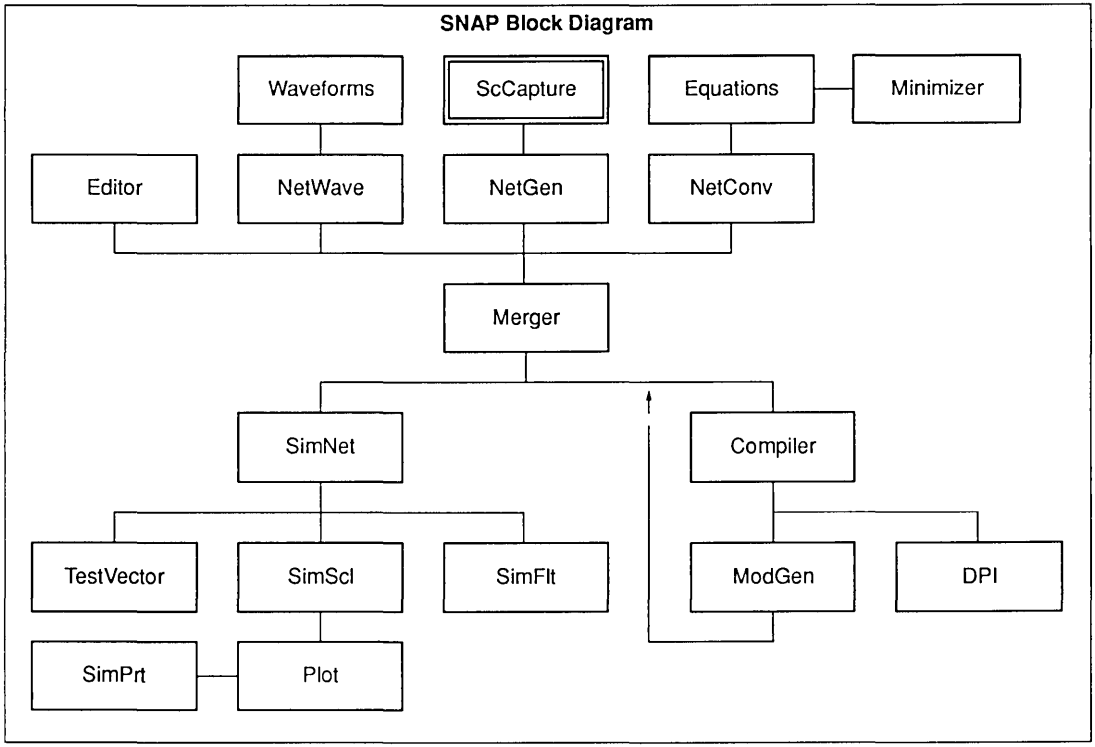
PML is a trademark of Signetics.

Product Spotlights

SNAP 16 – Programmable Logic Development Software

FEATURES

- Schematic entry available using Data I/O SNAP-DASH™* or OrCAD SDT III™
- State equation entry
- Boolean equation entry
- Netlist entry
- Capability to design in one or any combination of formats
- Device independent, netlist based design platform
- Full support for the PML product line
- Philips LESIM 5-State gate array simulator:
  - Logic and fault simulation
  - Model extraction and timing simulation
  - Synthetic logic analyzer format
  - Stimuli entry in waveform format
- Freezing of selected Critical paths
- Cell library for PML functions
- Capability to create user defined macros
- Full documentation of design and simulation results in waveform format
- JEDEC fusemap compiler and device programmer interface



SNAP-DASH is a trademark of Data I/O Corporation
OrCAD STD III is a trademark of OrCAD, Inc.

Product Spotlights

TELECOMMUNICATIONS/RF

Cellular Radio Chip Set

UMA1000/10/12/14 NE605/5750/5751 PCF8282/8XC552 (UMA1010/1012 1990 only)

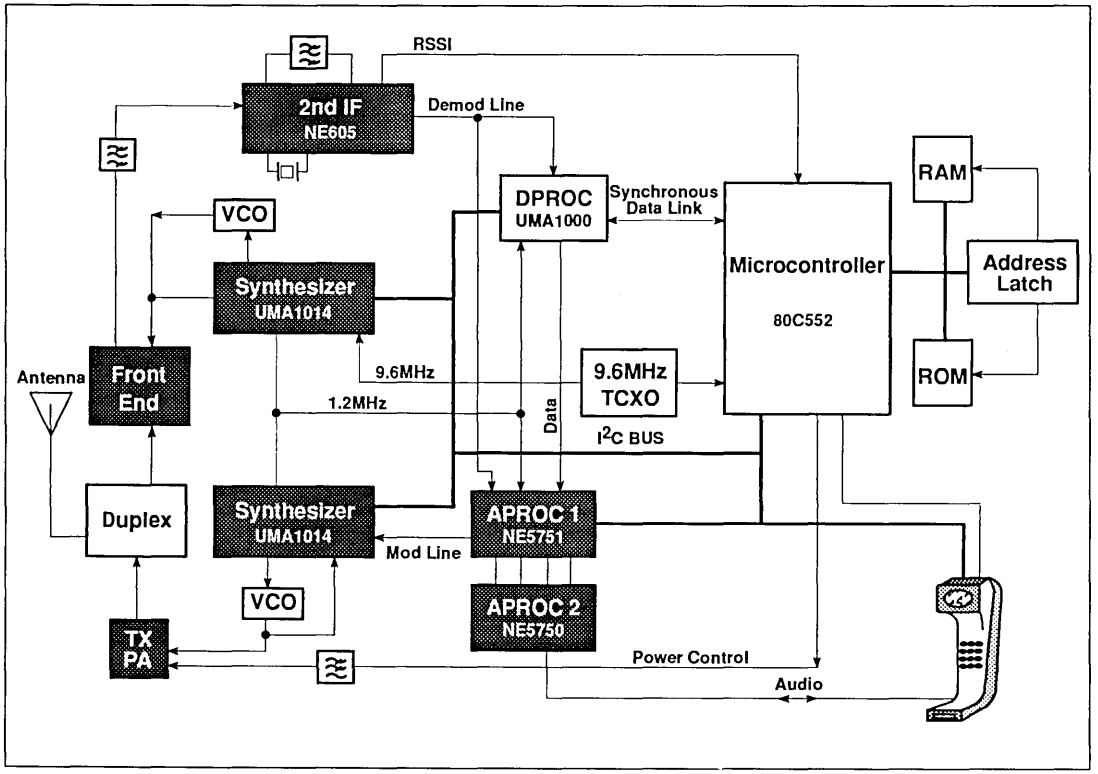
COMPONENTS

- NE605 – Low Power Single Chip FM System
- NE5750 – Audio Processor - Companding and Amplifier
- NE5751 – Audio Processor - Filter and Control Section
- UMA1000 – Data Processor for Cellular Radio
- UMA1014 – Low-Power Universal Synthesizer for Radio Communication
- S80C552 – Single Chip 8-Bit Microcontroller with A/D, Capture/ Compare Timer, with High-Speed Outputs, PWM

FEATURES

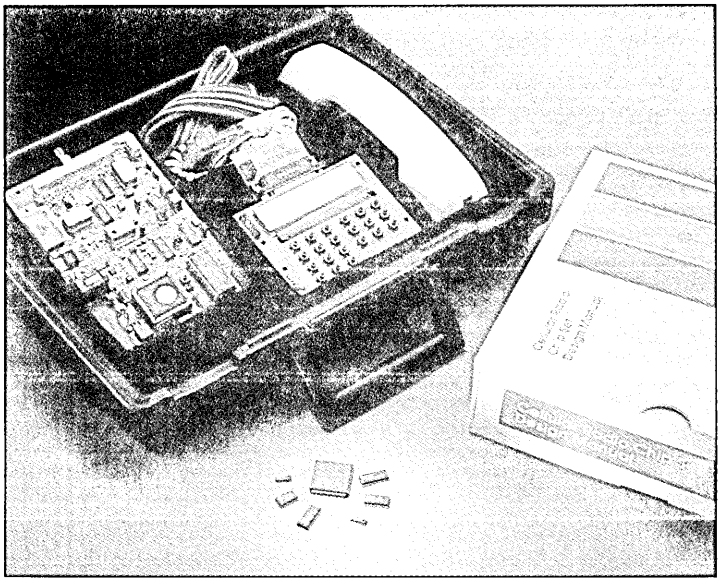
- 6 key ICs for maximum integration
- Integrated filters, amplifiers, and compandors to reduce off-chip components
- Designed for minimum current consumption, i.e., maximum use of standby modes, low current IC design
- I^2C serial control bus

CELLULAR RADIO CHIP SET SCHEMATIC



Product Spotlights

Cellular Chip Set Demo Kit



FEATURES

- **Highly Integrated Solution**
- **Low Current**
- **Extensive Application Support**
  - **Demo Boards**
  - **Software**
  - **Manuals**
  - **Schematics**
- **Simple Architecture**
  - **I^2C Serial Control Bus**
  - **Double Sided Board**
  - **Board can be folded in half**
- **Complete Solution**
  - **Mark 2A Board**
  - **Keyboard/Display**
  - **Handset**
  - **RS232 Interface**

APPLICATIONS

- **Cellular Telephone**
- **Cellular Radio**
- **Cellular Modem**
- **Mobile FAX**
- **Surveillance/Security**
- **Medical Communications**
- **Laptop Computers**

ORDERING INFORMATION

DESCRIPTION	ORDER CODE
Signetics Cellular Chip Set Phone Mark 2A	PSCCSPH2A-MSC

The Signetics Cellular Chip Set is the world's first complete chip set commercially available. This complete system, in conjunction with your design, revolutionizes the cellular radio marketplace. The board can virtually be copied onto your system as a complete cellular solution. Whether your application is in portable RF Modems and FAX's or you need remote diagnostics capabilities this kit can help you design. It significantly reduces your design and development cycle and at a fraction of the cost.

The complete Cellular Demo Kit contains a chip set of 12 ICs, a tested demo board with all the hardware and firmware, documentation, schematics, RS-232 interface board, keyboard, handset and display. The chip set handles the processing of data, audio, the receiver, the switching of channels and the transmitter. The following is a list of the parts and the functions they perform:

- **UMA1000DT DPROC**- Handles data processing
- **UMA1014DT Synthesizer** - Handles the channel selection on both the receiver and transmitter (Two per system, TX and RX)
- **NE605DK FM IF System** - Handles the receiver portion of the system
- **NE5750D APROC** - Handles audio processing
- **NE5751D APROC** - Handles audio processing
- **PCB80C552 Microcontroller** - Controls the complete cellular board
- **27C512 EPROM** – Stores the "Test Harness" program along with the firmware for the phone functions.
- **FCB61C65 8K × 8 Static Ram** – Stores scratch pad information
- **NE5234D Quad Op-Amp** – Controls the TX power amp level
- **74HC573D Latch** – Memory address latch

To obtain your Signetics Cellular Chip Set Demo Kit call 800-227-1817, Ext. 900 today for your local sales office or for more information on Signetics RF Communication products, see our BRC in the back of the directory.

Product Spotlights

NE/SA606 – Low Voltage High-Performance Mixer FM IF System

DESCRIPTION

The NE/SA606 is a high performance monolithic low-power FM IF system incorporating a mixer/oscillator, two limiting intermediate frequency amplifiers, quadrature detector, logarithmic received signal strength indicator (RSSI), voltage regulator, audio and RSSI op amps. The NE/SA606 is available in 20-lead dual-in-line plastic, 20-lead SOL (surface-mounted miniature package) and 20-lead SSOP package.

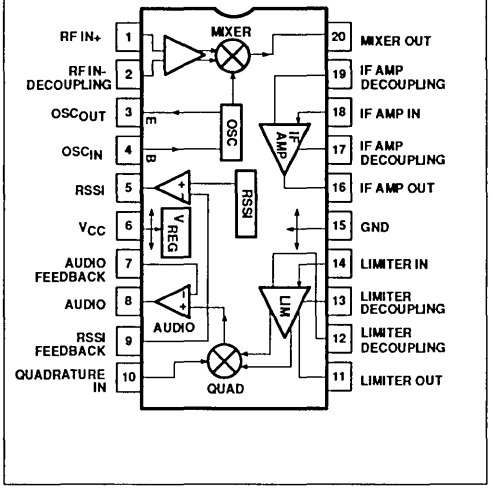
The NE606 was designed for portable communication applications and will function down to 2.85V. The RF section is similar to the famous NE605. The audio and RSSI outputs have amplifiers with access to the feedback path. This enables the designer to level adjust the outputs or add filtering.

FEATURES

- **Low power consumption: 3.5mA typical at 3V**
- **Mixer input to >150MHz**
- **Mixer conversion power gain of 12dB at 45MHz**
- **XTAL oscillator effective to 150MHz (L.C. oscillator or external oscillator can be used at higher frequencies)**
- **102dB of IF Amp/Limiter gain**
- **2MHz limiter small signal bandwidth**
- **Temperature compensated logarithmic Received Signal Strength Indicator (RSSI) with a 90dB dynamic range**
- **Low external component count; suitable for crystal/ceramic/LC filters**
- **Excellent sensitivity: 0.31μV into 50Ω matching network for 12dB SINAD (Signal to Noise and Distortion ratio) for 1kHz tone with RF at 45MHz and IF at 455kHz**
- **SA606 meets cellular radio specifications**
- **Audio output internal op amp**
- **RSSI output internal op amp**
- **Internal op amps with rail-to-rail outputs**

PIN CONFIGURATION

D, DK and N Packages



APPLICATIONS

- **Portable cellular radio FM IF**
- **Cordless telephones**
- **RF level meter**
- **Spectrum analyzer**
- **Instrumentation**
- **FSK and ASK data receivers**
- **Log amps**
- **High performance communication receiver**
- **Single conversion VHF receivers**
- **Wireless systems**

Product Spotlights

NE/SA607 – Low Voltage High-Performance Mixer FM IF System

DESCRIPTION

The NE/SA607 is a high performance monolithic low-power FM IF system incorporating a mixer/oscillator, two limiting intermediate frequency amplifiers, quadrature detector, logarithmic received signal strength indicator (RSSI), voltage regulator, audio and RSSI op amps. The NE/SA607 is available in 20-lead dual-in-line plastic, 20-lead SOL (surface-mounted miniature package) and 20-lead SSOP package.

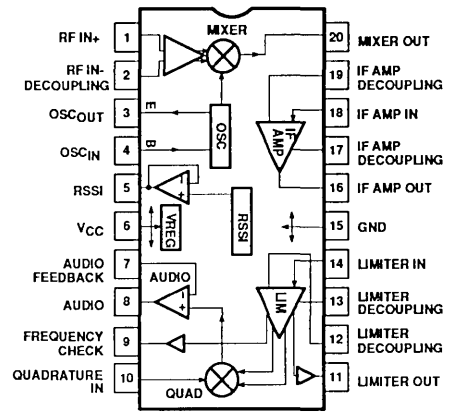
The NE607 was designed for portable communication applications and will function down to 2.85V. The RF section is similar to the famous NE605. The audio output has an internal amplifier with the feedback pin accessible. The RSSI output is buffered. The NE607 also has an extra limiter output. This signal is buffered from the output of the limiter and can be used to perform frequency check. This is accomplished by comparing a reference frequency with the frequency check signal using a comparator to a varactor or PLL at the oscillator inputs.

FEATURES

- Low power consumption: 3.5mA typical at 3V
- Mixer input to >150MHz
- Mixer conversion power gain of 12dB at 45MHz
- XTAL oscillator effective to 150MHz (L.C. oscillator or external oscillator can be used at higher frequencies)
- 102dB of IF Amp/Limiter gain
- 2MHz limiter small signal bandwidth
- Temperature compensated logarithmic Received Signal Strength Indicator (RSSI) with a 90dB dynamic range
- Low external component count; suitable for crystal/ceramic/LC filters
- Excellent sensitivity: 0.31μV into 50Ω matching network for 12dB SINAD (Signal to Noise and Distortion ratio) for 1kHz tone with RF at 45MHz and IF at 455kHz
- SA607 meets cellular radio specifications
- Audio output internal op amp
- RSSI output internal op amp
- Internal op amps with rail-to-rail outputs
- Buffered frequency check output

PIN CONFIGURATION

D, DK and N Packages



APPLICATIONS

- Portable cellular radio FM IF
- Cordless telephones
- RF level meter
- Spectrum analyzer
- Instrumentation
- FSK and ASK data receivers
- Log amps
- Low voltage high performance communication receiver
- Single conversion VHF receivers
- Wireless systems

Product Spotlights

NE/SA575 – Low Voltage Compandor

FEATURES

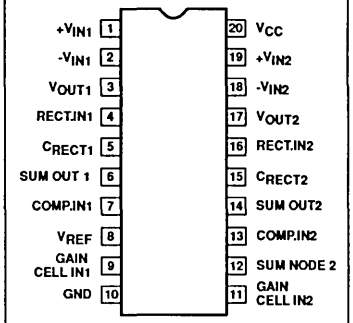
- Operating voltage range from 3V to 7V
- Reference voltage of 100mV$_{RMS}$ = 0dB
- One dedicated summing op amp per channel and two extra uncommitted op amps
- 600Ω drive capability
- Single or split operation
- Wide input/output swing capability
- Available in SSOP

APPLICATIONS

- Portable communications
- Cellular radio
- Cordless telephone
- Consumer audio
- Portable broadcast mixers
- Wireless microphones
- Modems
- Electric organs
- Hearing aids

PIN CONFIGURATION

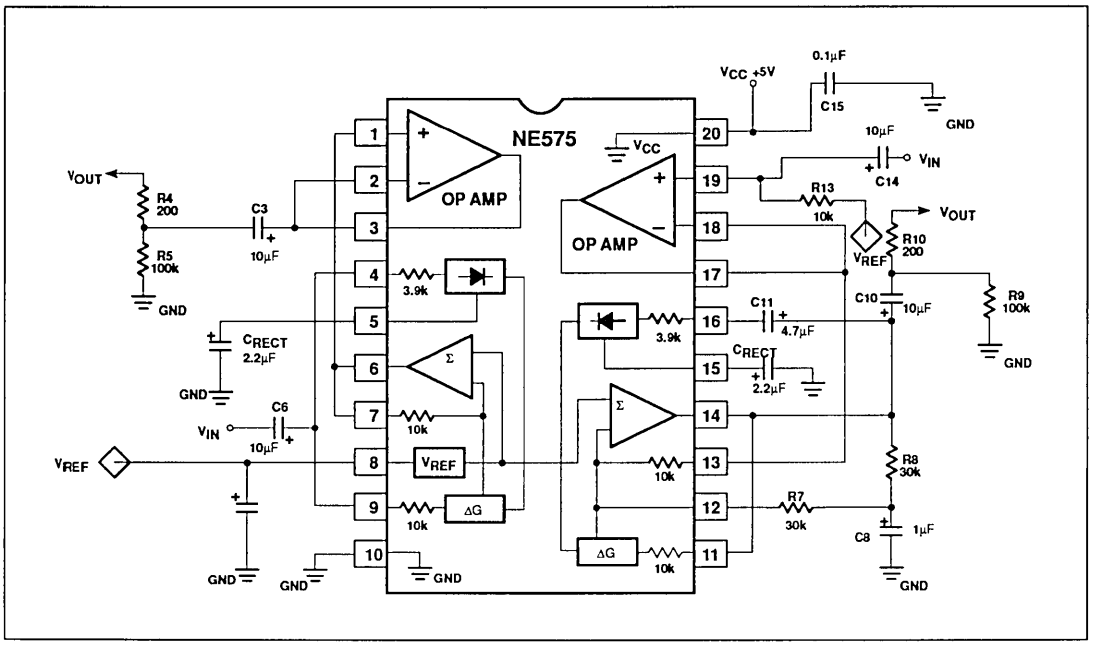
D[1], D[2], DK[2] and N Packages



NOTES:
1. Available in large SOL package.
2. Available in Shrink Small Outline Package (SSOP).

Product Spotlights

NE/SA575 – BLOCK DIAGRAM AND TEST CIRCUIT



NE577 & NE578 Industry's Lowest-Power Compandors

Signetics recently announced two new power saving compandors for portable communication equipment such as cellular radios, cordless telephones and wireless microphones. The new compandors, named the NE577 and NE578, typically draw 50% less power than any other compandor currently available in the world.

In audio and communications products, a compandor's function is to maintain a signal's integrity so that it remains clear when it emerges on the other end. Essentially, the compandor prevents noise distortion introduced by the medium the signal passes through during transmission, translation or recording.

To maintain signal integrity, a compandor combines two processing functions – compression and expansion – into one device. The compressor portion of a compandor reduces the size of the original signal so that it can be transmitted, translated or recorded, as required by its particular application. The expander works in reverse, restoring a compressed signal to its original range, while reducing noise.

The NE577 and the NE578 are the latest additions to Signetics' family of six compandor ICs. They were developed to meet the low-voltage low-power operating requirements necessitated by today's increasing demand for battery-powered consumer audio products.

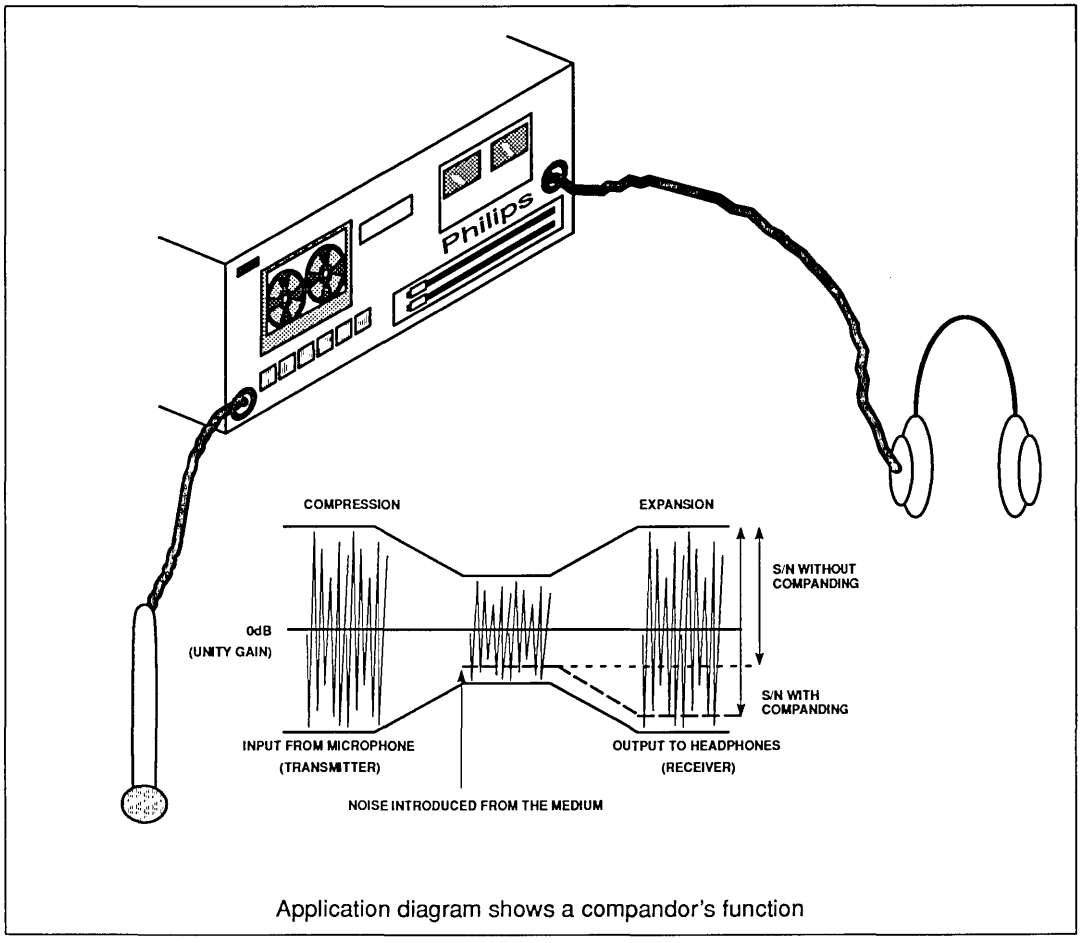
"In addition to low power consumption, Signetics' customers will find that these new compandors can also reduce the number of external components and improve the performance of their products," explained Michael Sera, Product Marketing Manager. "The net result is smaller, lighter, and more efficient mobile communication systems."

Both products are available in production quantities in either DIP or SO surface mounted packages.

Popular Applications

Look for the low-power compandors in the following types of equipment:

- *High-performance portable communications systems*
- *Cellular radios*
- *Cordless telephones*
- *Consumer audio, such as automotive CD players*
- *Wireless microphones*
- *Modems*
- *Electrical organs/musical instruments*
- *Hearing aids*



Application diagram shows a compandor's function

Product Spotlights

NE/SA577 – Unity Gain Level Programmable Low Power Compandor

DESCRIPTION

The NE/SA577 is a unity gain level programmable compandor designed for low power applications. The NE577 is internally configured as an expandor and a compressor to minimize external component count.

The NE577 is available in a 14-pin plastic DIP and an SO package.

FEATURES

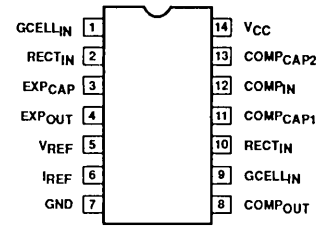
- **Operating voltage range: 1.8V to 7V**
- **Low power consumption (1.4mA @ 3.6V)**
- **0dB level programmable(10mV$_{RMS}$ to 1.0V$_{RMS}$)**
- **Over 90dB of dynamic range**
- **Wide input/output swing capability (rail-to-rail)**
- **Low external component count**
- **SA577 meets cellular radio specifications**
- **ESD hardened**

APPLICATIONS

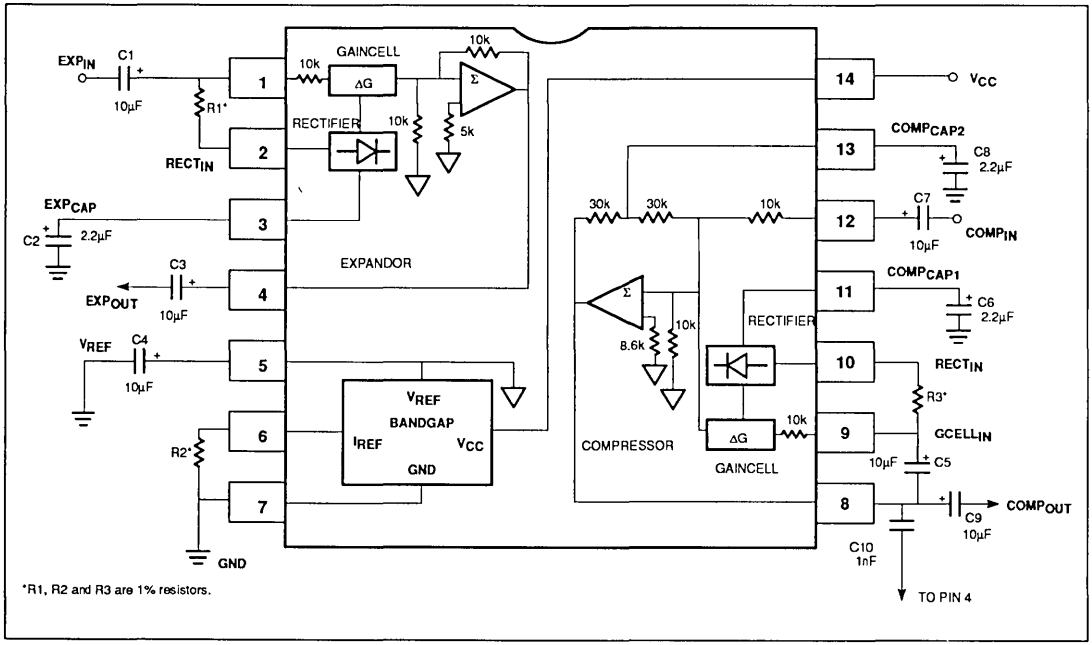
- **High performance portable communications**
- **Cellular radio**
- **Cordless telephone**
- **Consumer audio**
- **Wireless microphones**
- **Modems**
- **Electric organs**
- **Hearing aids**
- **Automatic level control (ALC)**

PIN CONFIGURATION

D and N Packages



BLOCK DIAGRAM AND TEST CIRCUIT



Product Spotlights

NE/SA578 – Unity Gain Level Programmable Low Power Compandor

DESCRIPTION

The NE/SA578 is a unity gain level programmable compandor designed for low power applications. The NE578 is internally configured as an expandor and a compressor to minimize external component count.

The summing amplifiers of the NE578 have 600Ω drive capability and the inverting input of the compressor amplifier is accessible through Pin 9 for summing multiple external signals. Power Down/Mute function is active low and requires an open collector output logic configuration at Pin 8. If Power Down/Mute is not needed, Pin 8 should be left open. When the part is muted, supply current drops to 170μA at 3.6V. The NE578 is available in a 16-pin plastic DIP and an SO package.

FEATURES

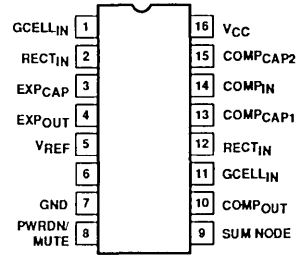
- **Operating voltage range: 1.8V to 7V**
- **Low power consumption (1.4mA @ 3.6V)**
- **0dB level programmable(10mV$_{RMS}$ to 1.0V$_{RMS}$)**
- **Over 90dB of dynamic range**
- **Wide input/output swing capability**
- **Low external component count**
- **SA578 meets cellular radio specifications**
- **ESD hardened**
- **Power Down mode (I$_{CC}$ = 170μA @ 3.6V)**
- **Mute function**
- **Multiple external summing capability**
- **600Ω drive capability**

APPLICATIONS

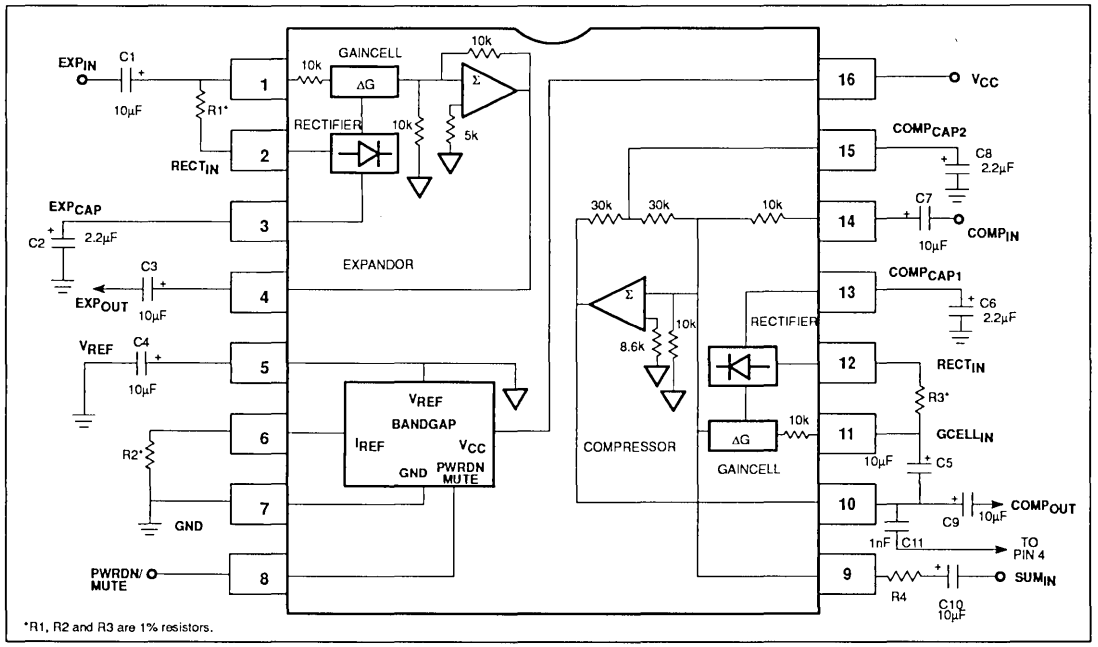
- **High performance portable communications**
- **Cellular radio**
- **Cordless telephone**
- **Consumer audio**
- **Wireless microphones**
- **Modems**
- **Electric organs**
- **Hearing aids**
- **Automatic level control (ALC)**

PIN CONFIGURATION

D and N Packages



NE/SA578 – BLOCK DIAGRAM AND TEST AND APPLICATION CIRCUIT



*R1, R2 and R3 are 1% resistors.

Product Spotlights

NE/SA5209 – Wideband Variable Gain Amplifier

DESCRIPTION

The NE5209 represents a breakthrough in monolithic amplifier design featuring several innovations. This unique design has combined the advantages of a high speed bipolar process with the proven Gilbert architecture.

The NE5209 is a linear broadband RF amplifier whose gain is controlled by a single DC voltage. The amplifier runs off a single 5 volt supply and consumes only 40mA. The amplifier has high impedance (1kW) differential inputs. The output is 50W differential. Therefore, the 5209 can simultaneously perform AGC, impedance transformation, and the balun functions.

The dynamic range is excellent over a wide range of gain setting. Furthermore, the noise performance degrades at a comparatively slow rate as the gain is reduced. This is an important feature when building linear AGC systems.

FEATURES

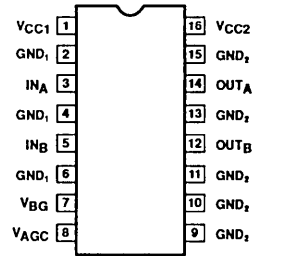
- **Gain to 1.5GHz**
- **850MHz bandwidth**
- **High impedance differential input**
- **50Ω differential output**
- **Single 5V power supply**
- **0 - 1V gain control pin**
- **>60dB gain control range at 200MHz**
- **26dB maximum gain differential**
- **Exceptional $V_{CONTROL}/V_{GAIN}$ linearity**
- **7dB noise figure minimum**
- **Full ESD protection**
- **Easily cascadable**

APPLICATIONS

- **Linear AGC systems**
- **Very linear AM modulator**
- **RF balun**
- **Cable TV multi–purpose amplifier**
- **Fiber optic AGC**
- **RADAR**
- **Cellular communications**
- **User programmable fixed gain block**
- **Video**
- **Satellite receivers**

PIN CONFIGURATION

N, D PACKAGES



Product Spotlights

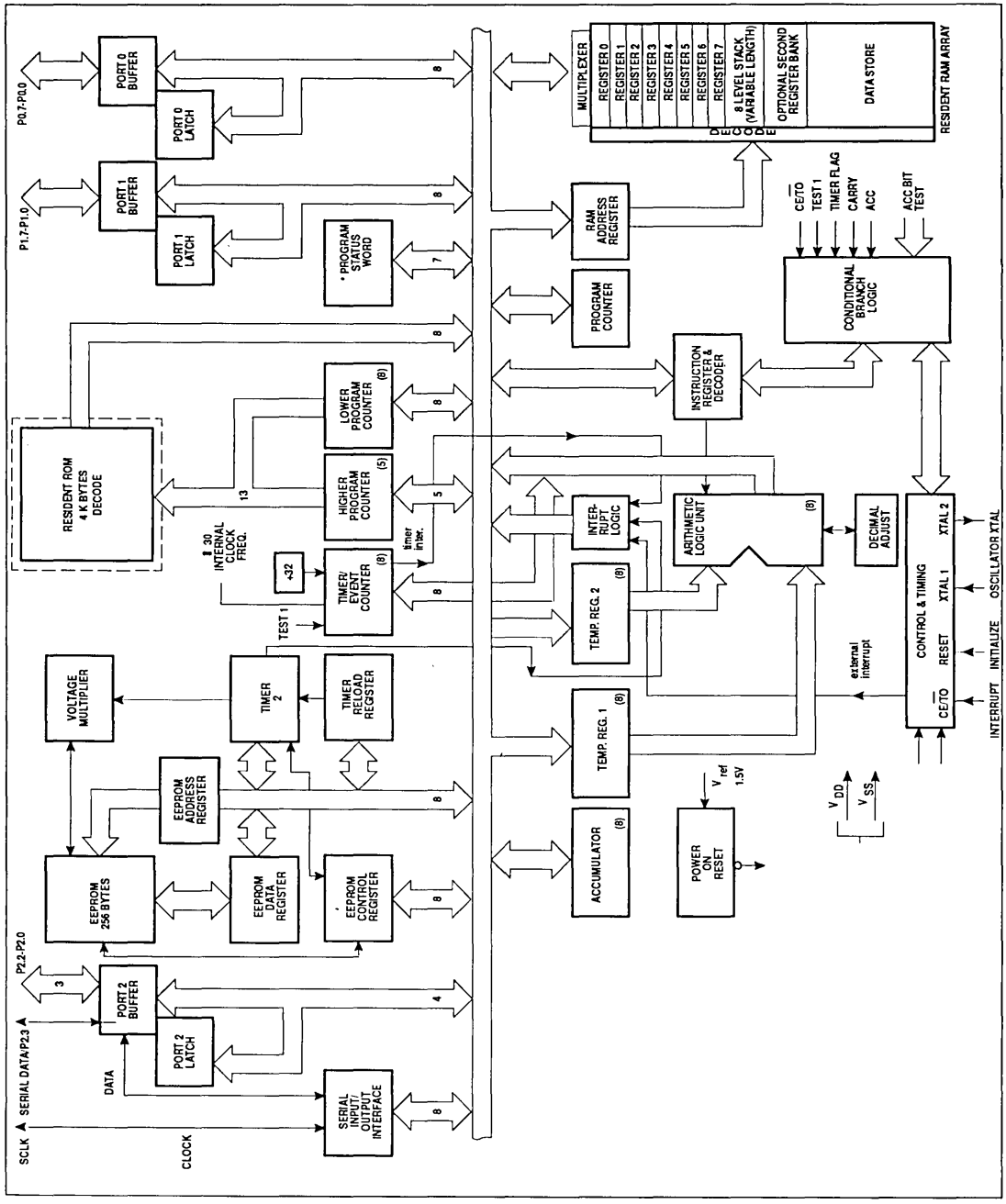
PCD3346 – Single Chip 8-Bit Microcontroller

FEATURES

- 8-bit CPU, ROM, EEPROM, RAM, I/O in a single 28-lead DIL or SO package
- 4K ROM bytes
- 128 RAM bytes
- 256 bytes EEPROM
- 20 quasi-bidirectional I/O port lines
- 2 x 8-bit programmable timers
- Two test inputs: one of which is also the external interrupt input (CE/$\overline{TO}$)
- Single-level vectored interrupts: external, tiemr/event counter, serial I/O data via an existing port line and clock via a dedicated line)
- Clock frequency 450kHz to 10MHz
- Over 80 instructions (based on MAB8048) all of 1 or 2 cycles
- Single supply voltage from 2.5V to 6.0V
- STOP and IDLE mode
- On-chip oscillator with output drive capability for peripherals (e.g. PCD3312 DTMF generator)
- Individual mask configuration of all port lines for: pull-up, push-pull or open drain
- Power-on reset circuit and low supply voltage detection
- Individual mask selection of reset state for all ports
- Operating temperature range: -25 to +70°C

Product Spotlights

PCD3346 – BLOCK DIAGRAM



Product Spotlights

PCD3349 – CMOS 8-Bit Microcontroller with On-Chip DTMF Generator

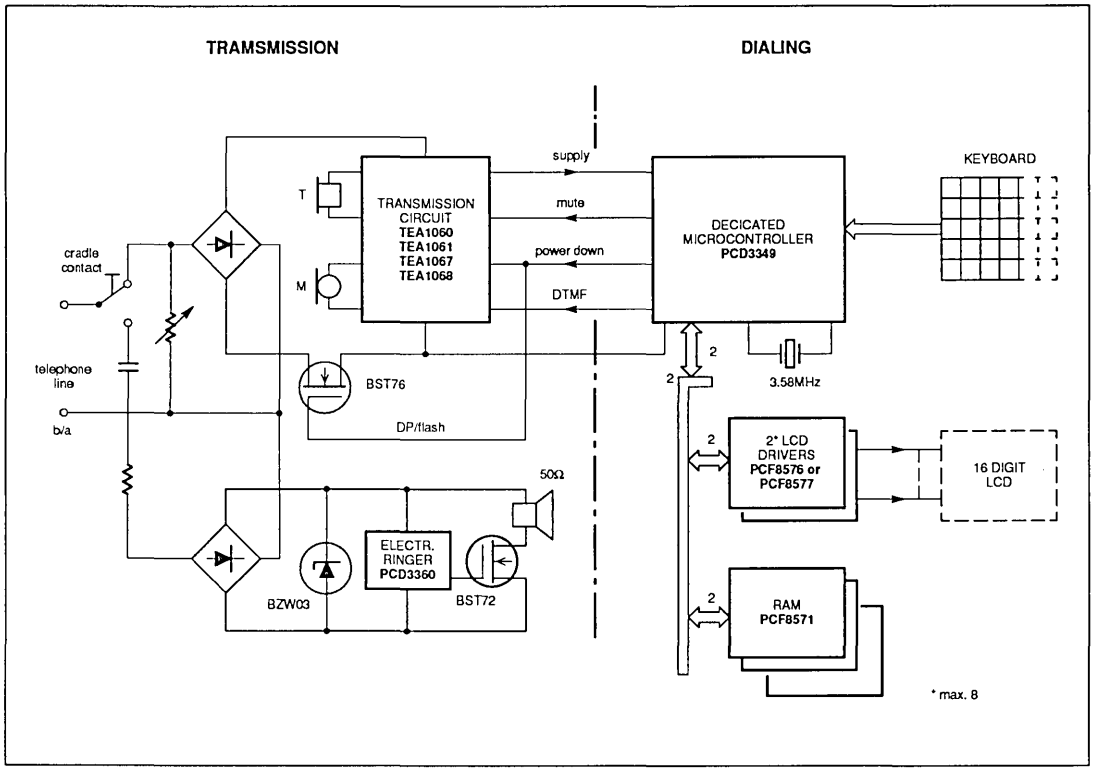
GENERAL DESCRIPTION

The PCD3349 is a single-chip 8-bit microcontroller fabricated in CMOS and is a member of the PCD3343 family. It has an on-chip dual tone multi-frequency (DTMF) generator and other features for application in telephone sets.

FEATURES

- **Single supply voltage from 2.5 to 6.0 volts**
- **Low standby voltage and current**
- **8048-based instruction**
- **On-chip DTMF tone generator**
- **4096 ROM bytes**
- **224 RAM bytes**
- **Single-level vectored interrupts: external, timer/event counter**
- **Clock frequency 3.58MHz**
- **20 quasi-bidirectional I/O port lines**
- **8-bit programmable timer/event counter**
- **28-lead DIL or SO package**

BLOCK DIAGRAM – ELECTRONIC FEATUREPHONE WITH COMMON LINE INTERFACE



10BASE-T Transceiver Surpasses the Competition

Signetics has added a premier new product to its Ethernet line, an advanced CMOS 10BASE-T transceiver called the NE86C92. It implements the IEEE 802.3 10BASE-T standard, which specifies a 10Mb/sec Ethernet LAN using unshielded twisted-pair wiring.

The NE86C92 offers advanced features over competitive products without the corresponding price increase one would expect. It requires the lowest operating power consumption and the least external support components of any similar device on the market.

The NE86C92 offers advanced features over competitive products without the corresponding price increase one would expect.

This new product allows for automatic selection between the 10BASE-T transceiver and the AUI (Attachment Unit Interface). This eliminates the need for end users to remove interface cards to change jumpers when switching between the twisted-pair wiring and a remote MAU (Medium Access Unit).

Additional NE86C92 features include polarity detection with automatic correction, smart squelch on both the receiver and the transmitter, on-chip LED drivers for all status indicating signals (transmit, receive, polarity reversal, collision, jabber), and a highly reliable crystal controlled oscillator.

Users can easily upgrade their products without having to alter board layout.

The NE86C92 fits into AT&T sockets so it can be used as an upgrade to AT&T's T7220 transceiver. In many cases current T7220 users can easily upgrade their products to incorporate the advanced features of the NE86C92 without having to alter board layout. Because of its reduced power consumption and component count, the NE86C92 will also serve as a preferred choice over AT&T's upcoming T7220A.

Product Spotlights

DATA COMMUNICATIONS

Ethernet Transceivers NE8392A, NE86C92

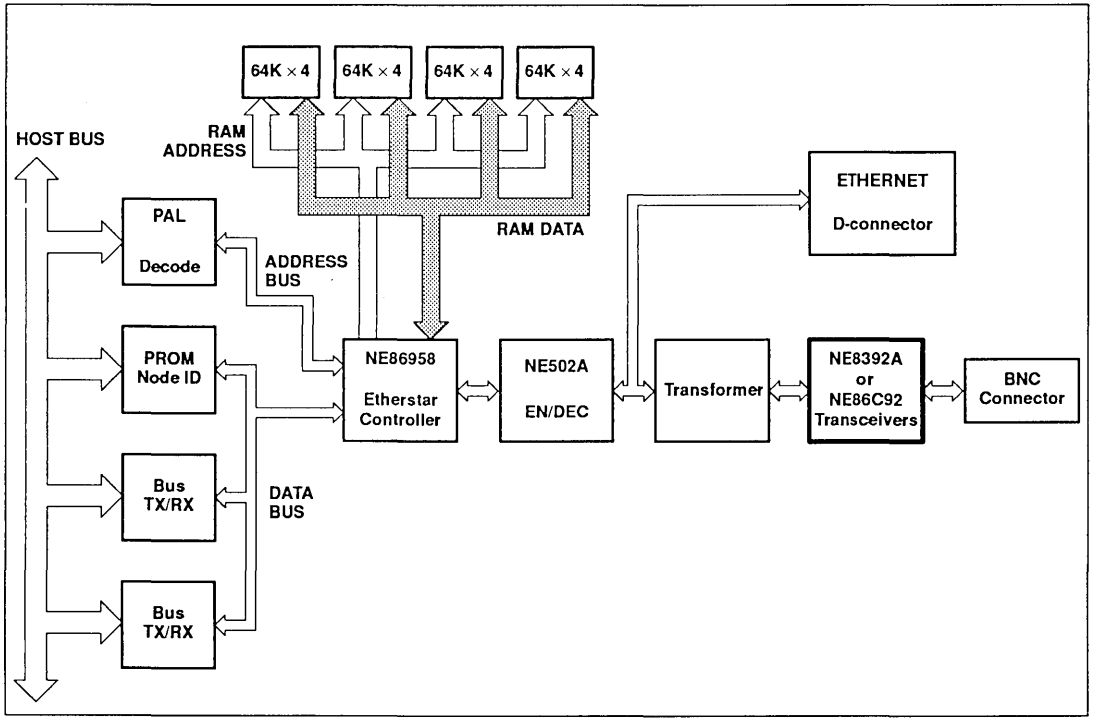
NE8392A – COAXIAL TRANSCEIVER INTERFACE

- Compatible with Ethernet II, IEEE 802.3 10base5 and 10base2, and ISO 8802/3 interface specifications
- Integrates all transceiver electronics except signal and power isolation
- Heartbeat generator can be externally disabled for operation as IEEE 802.3 compatible repeaters
- Full ESD protection
- Power-on reset prevents glitches on coaxial cable during power up.
- Standard 16-pin DIP with special lead frame minimizes the operating die temperature

NE86C92 – TWISTED-PAIR TRANSCEIVER INTERFACE

- Compatible with IEEE 802.3 10BASE-T specifications
- Integrates all transceiver functions, with selectable heartbeat and link test generators
- Twisted-pair polarity detection and automatic correction
- Smart squelch on all data inputs
- Internal transmitter pre-distortion generator
- Supports automatic selection between AUI and RJ-45 connections
- Five LED status signals with on-chip drivers for transmit, receive and link integrity, collision, jabber status and twisted pair polarity reversal
- Advanced CMOS process uses single 5V supply
- Extremely low power operation: 24mA typical idle current

TYPICAL BOARD COMPONENTS FOR ETHERNET CARD



Product Spotlights

SCN68562/SCN26562 – Dual Universal Serial Communications Controller (DUSCC)

FEATURES

General Features

- SCN26562 is fully compatible with Intel
- SCN68562 is fully compatible with Motorola
- Dual full-duplex synchronous/ asynchronous receiver and transmitter
- Multiprotocol operation
  - BOP: HDLC/ADCCP, SDLC, SDLC loop, X.25 or X.75 link level, etc.
  - COP: BISYNC, DDCMP
  - ASYNC: 5 - 8 bits plus optional parity
- Four character receiver and transmitter FIFOs
- 0 to 4MHz data rate
- Programmable bit rate for each receiver and transmitter selectable from:
  - 16 fixed rates: 50 to 38.4k baud
  - One user-defined rate derived from programmable counter/timer
  - External 1X or 16X clock
  - Digital phase-locked loop
- Programmable data transfer mode: polled, interrupt, DMA, wait
- DMA interface
  - Compatibe with Signetics' SCB68430 Direct Memory Access Interface (DMAI) and other DMA controllers
  - Half- or full-duplex operation
  - Single or dual address data transfers
  - Automatic frame termination on counter/timer terminal count or DMA DONE
- Interrupt capabilities
  - Daisy chain option
  - Vector output (fixed or modified by status)
  - Programmable internal priorities
  - Maskable interrupt conditions
- Multifunction programmable 16-bit counter/timer
  - Bit rate generator
  - Event counter
  - Count received or transmitted characters
  - Delay generator
  - Automatic bit length measurement
- Modem controls
  - RTS, CTS, DCD, and up to four general purpose I/O pins per channel
  - CTS and DCD programmable autoenables for Tx and Rx
  - Programmable interrupt on change of CTS or DCD

Asynchronous Mode Features

- Character length: 5 to 8 bits
- Odd or even parity, no parity, or force parity
- Up to two stop bits programmable in 1/16-bit increments
- 1X or 16X Rx and Tx clock factors
- Parity, overrun, and framing error detection
- False start bit detection
- Start bit search 1/2 bit time after framing error detection
- Break generation with handshake for counting break characters
- Detection of start and end of received break

Character-Oriented Protocol Features

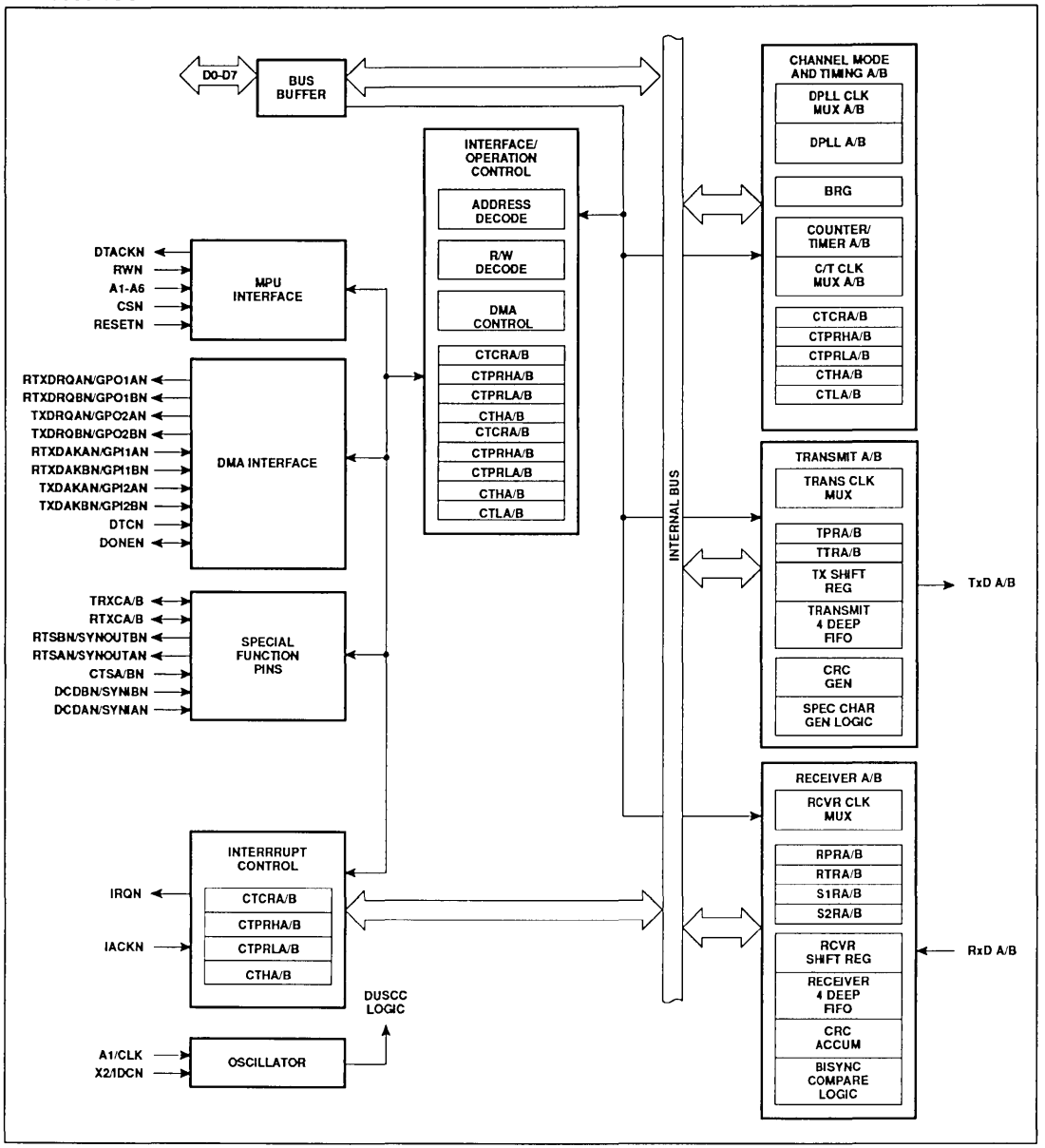
- Character length: 5 to 8 bits
- Odd or even parity, no parity, or force parity
- LRC or CRC generation and checking
- Optional opening PAD transmission
- SYN detection and optional stripping
- SYN or MARK linefill on underrun
- Parity, FCS, overrun, and underrun error detection
- BISYNC Features
  - EBCDIC or ASCII header, test and control messages
  - SYN, DLE stripping
  - EOM (End Of Message) detection and transmission
  - Auto transparency mode switching
  - Auto hunt after receipt of EOM sequence (with closing PAD check after EOT or NAK)

Bit-Oriented Protocol Features

- Character length: 5 to 8 bits
- Detection and transmission of residual character: 0 - 7 bits
- Automatic switch to programmed character length for 1 field
- Zero insertion and deletion
- Optional opening PAD transmission
- ABORT, ABORT-FLAGs, or FCS-FLAGs line fill on underrun
- Extended address and control fields
- CRC generation and checking
- SDLC loop mode capability

Product Spotlights

SCN68562/SCN26562 – BLOCK DIAGRAM



Product Spotlights

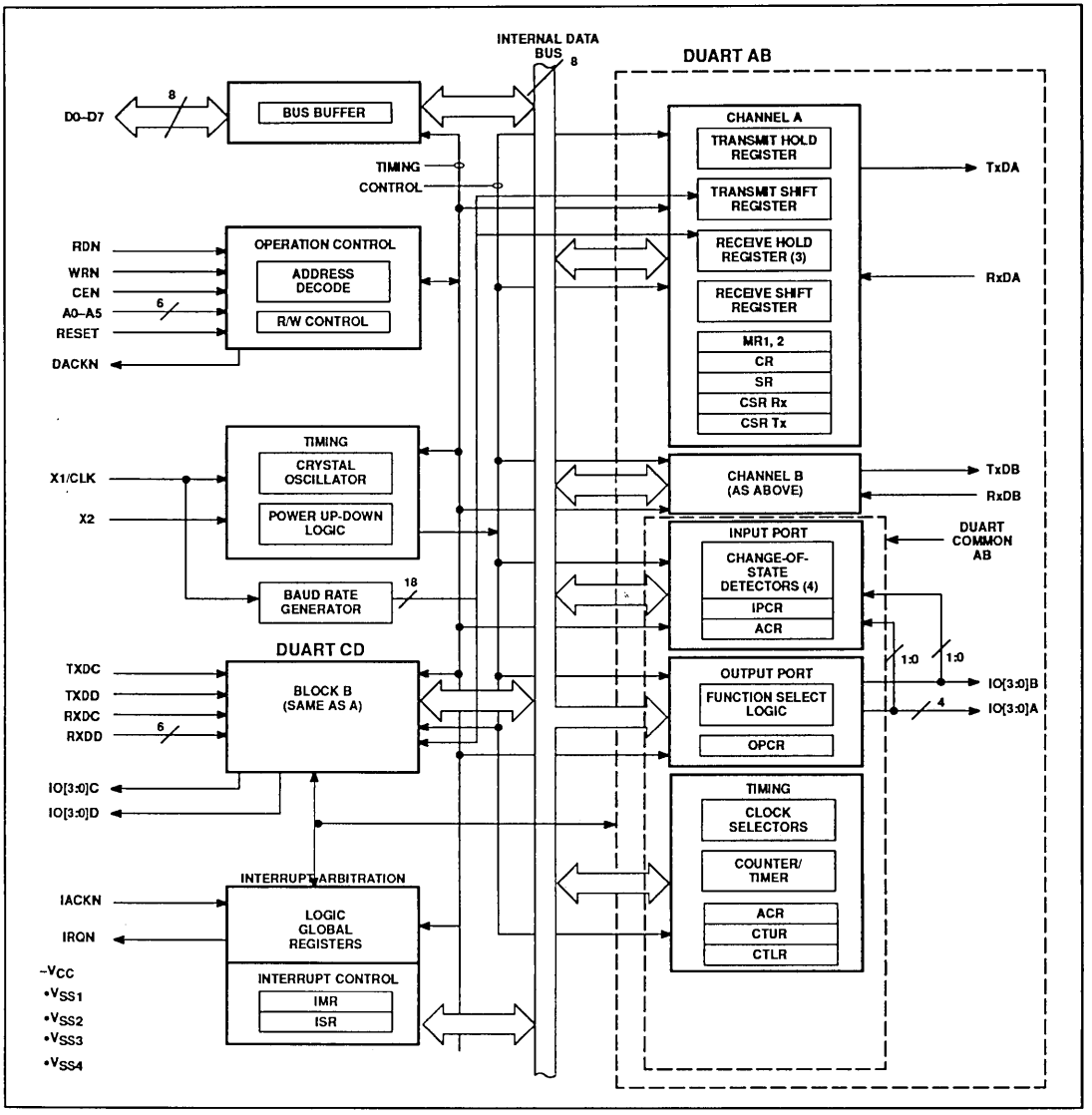
SC26C94/68C94 – Quad Universal Asynchronous Receiver/Transmitter (QUART)

FEATURES

- Four Signetics industry-standard UARTs
- Eight byte receive FIFOs for each UART
- Programmable data format:
  - 5 to 8 data bits plus parity
  - Odd, even, no parity or force parity
  - 1, 1.5 or 2 stop bits programmable in 1/16-bit increments
- Baud rate for the receiver and transmitter selectable from:
  - 18 fixed rates: 50 to 38.4K baud Non-standard rates to 230.4K baud
  - User-defined rates from the programmable counter/timer associated with each of two blocks
  - External 1x or 16x clock
- Parity, framing, and overrun error detection
- False start bit detection
- Line break detection and generation
- Programmable channel mode
  - Normal (full-duplex), automatic echo, local loop back, remote loopback
- Eight byte transmit FIFOs for each UART
- Programmable interrupt priorities
- Identification of highest priority interrupt
- Global interrupt register set provides data from interrupting channel
- Vectored interrupts with programmable vector format
- IACKN and DTACKN signals
- Built-in baud rate generator with choice of 18 rates
- Four I/O pins per UART for modem controls, clocks, etc.
- Power down mode
- High-speed CMOS technology
- 52-pin PLCC and 48-pin DIP
- Commercial and industrial temperature ranges available
- On-chip crystal oscillator
- TTL compatible
- Single +5V power supply with low power mode
- Two multifunction programmable 16-bit counter/timers
- 1MHz 16x mode operation
- 30ns data bus release time
- "Watch Dog" timer for each receiver

Product Spotlights

SC26C94/68C94 – BLOCK DIAGRAM



Product Spotlights

SCC68692 – Dual Asynchronous Receiver/Transmitter (DUART)

DESCRIPTION

The Signetics SCC68692 Dual Universal Asynchronous Receiver/Transmitter (DUART) is a single-chip CMOS-LSI communications device that provides two full-duplex asynchronous receiver/transmitter channels in a single package. It is compatible with other S68000 family devices and can also interface easily with other microprocessors. The DUART can be used in a polled or interrupt driven systems.

The operating mode and data format of each channel can be programmed independently. Additionally, each receiver and transmitter can select its operating speed as one of eighteen fixed baud rates, a 16X clock derived from a programmable counter/timer, or an external 1X or 16X clock. The baud rate generator and counter/timer can operate directly from a crystal or from external clock inputs. The ability to independently program the operating speed of the receiver and transmitter make the DUART particularly attractive for dual-speed channel applications such as clustered terminal systems.

Each receiver is quadruple buffered to minimize the potential of receiver overrun or to reduce interrupt overhead in interrupt driven systems. In addition, a flow control capability is provided to disable a remote DUART transmitter when the receiver buffer is full.

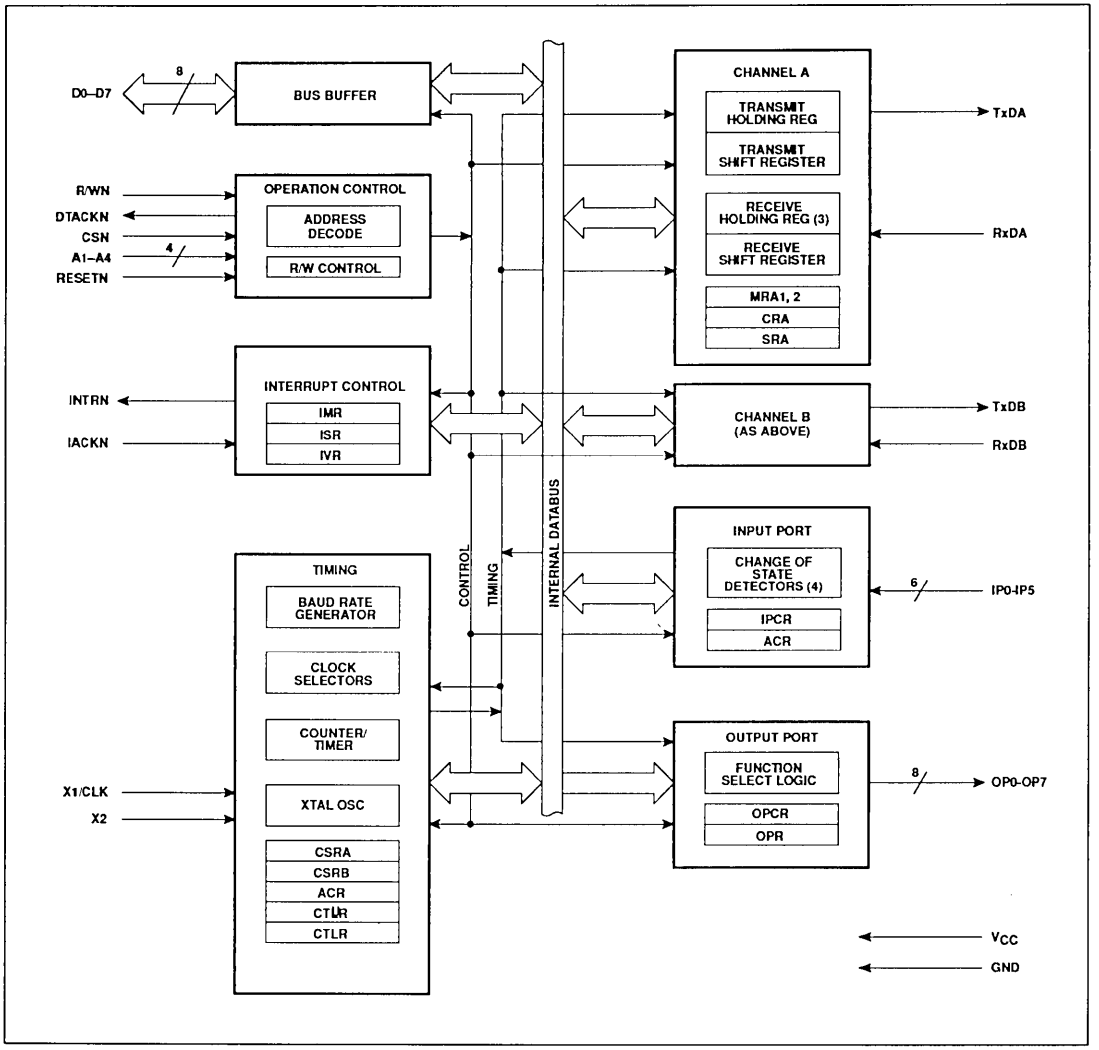
Also provided on the SCC68692 are a multipurpose 6-bit input port and a multipurpose 8-bit output port. These can be used as general purpose I/O ports or can be assigned specific functions (such as clock inputs or status/interrupt outputs) under program control.

FEATURES

- S68000 bus compatible
- Dual full-duplex asynchronous receiver/transmitters
- Quadruple buffered receiver data register
- Programmable data format:
  - 5 to 8 data bits plus parity
  - Odd, even, no parity or force parity
  - 1, 1.5 or 2 stop bits programmable in 1/16-bit increments
- Programmable baud rate for each receiver and transmitter selectable from:
  - 18 fixed rates: 50 to 38.4K baud
  - One user-defined rate derived from programmable counter/timer
  - External 1X or 16X clock
- Parity, framing, and overrun error detection
- False start bit detection
- Line break detection and generation
- Programmable channel mode
  - Normal (full-duplex)
  - Automatic echo
  - Local loopback
  - Remote loopback
- Multi-function 6-bit input port
  - Can serve as clock or control inputs
  - Change of state detection on four inputs
- Multi-function 8-bit output port
  - Individual bit set/reset capability
  - Outputs can be programmed to be status/interrupt signals
- Versatile interrupt system
  - Single interrupt output with eight maskable interrupting conditions
  - Interrupt vector output on interrupt acknowledge
  - Output port can be configured to provide a total of up to six separate wire-ORable interrupt outputs
- Maximum data transfer rates: 1X – 1Mb/s, 16X – 125Kb/s
- Automatic wake-up mode for multidrop applications
- Start-end break interrupt/status
- Detects break which originates in the middle of a character
- On-chip crystal oscillator
- Power down mode
- Receiver timeout mode
- Commercial and Industrial temperature range versions
- TTL compatible
- Single +5V power supply

Product Spotlights

SCC68692 – BLOCK DIAGRAM



Product Spotlights

SCC2692 – Dual Asynchronous Receiver/Transmitter (DUART)

DESCRIPTION

The Signetics SCC2692 Dual Universal Asynchronous Receiver/Transmitter (DUART) is a single-chip CMOS-LSI communications device that provides two full-duplex asynchronous receiver/transmitter channels in a single package. It interfaces directly with microprocessors and may be used in a polled or interrupt driven system.

The operating mode and data format of each channel can be programmed independently. Additionally, each receiver and transmitter can select its operating speed as one of eighteen fixed baud rates, a 16X clock derived from a programmable counter/timer, or an external 1X or 16X clock. The baud rate generator and counter/timer can operate directly from a crystal or from external clock inputs. The ability to independently program the operating speed of the receiver and transmitter make the DUART particularly attractive for dual-speed channel applications such as clustered terminal systems.

Each receiver is quadruply buffered to minimize the potential of receiver overrun or to reduce interrupt overhead in interrupt driven systems. In addition, a flow control capability is provided to disable a remote DUART transmitter when the receiver buffer is full.

Also provided on the SCC2692 are a multipurpose 7-bit input port and a multipurpose 8-bit output port. These can be used as general purpose I/O ports or can be assigned specific functions (such as clock inputs or status/interrupt outputs) under program control.

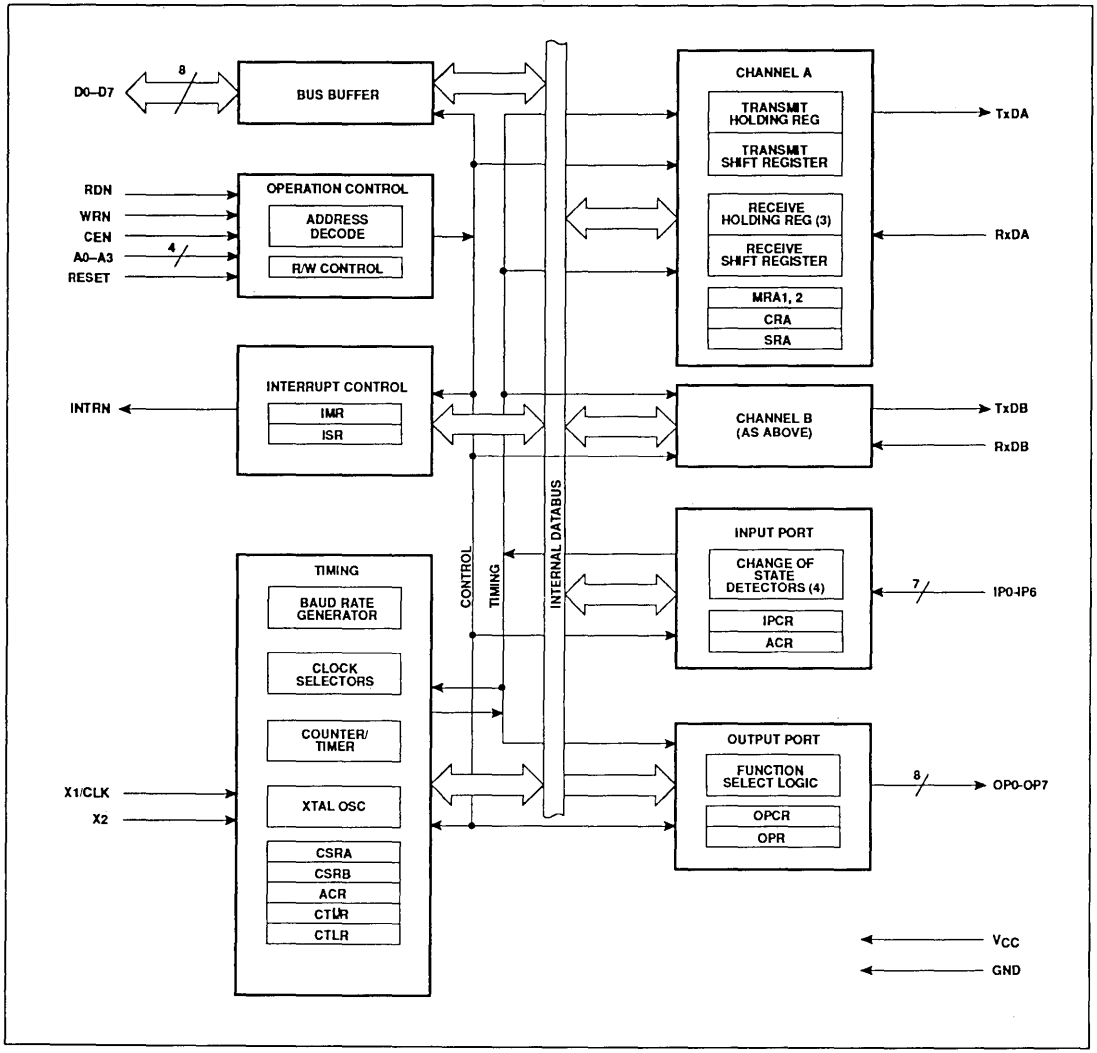
The SCC2692 is available in three package versions: 40-pin and 28-pin, 0.6" wide, DIPs and a 44-pin PLCC.

FEATURES

- **Dual full-duplex asynchronous receiver/transmitters**
- **Quadruple buffered receiver data register**
- **Programmable data format**
  - **5 to 8 data bits plus parity**
  - **Odd, even, no parity or force parity**
  - **1, 1.5 or 2 stop bits programmable in 1/16-bit increments**
- **Programmable baud rate for each receiver and transmitter selectable from:**
  - **18 fixed rates: 50 to 38.4k baud**
  - **One user-defined rate derived from programmable counter/timer**
  - **External 1X or 16X clock**
- **Parity, framing, and overrun error detection**
- **False start bit detection**
- **Line break detection and generation**
- **Programmable channel mode**
  - **Normal (full-duplex)**
  - **Automatic echo**
  - **Local loopback**
  - **Remote loopback**
- **Multi-function 7-bit input port**
  - **Can serve as clock or control inputs**
  - **Change of state detection on four inputs**
- **Multi-function 8-bit output port**
  - **Individual bit set/reset capability**
  - **Outputs can be programmed to be status/interrupt signals**
- **Versatile interrupt system**
  - **Single interrupt output with eight maskable interrupting conditions**
  - **Output port can be configured to provide a total of up to six separate wire-ORable interrupt outputs**
- **Maximum data transfer rates: 1X - 1Mb/s, 16X - 125Kb/s**
- **Automatic wake-up mode for multidrop applications**
- **Start-end break interrupt/status**
- **Detects break which originates in the middle of a character**
- **On-chip crystal oscillator**
- **Power down mode**
- **Receiver timeout mode**
- **Commercial and industrial temperature range versions**
- **TTL compatible**
- **Single +5V power supply**

Product Spotlights

SCC2692 – BLOCK DIAGRAM



Product Spotlights

SCC2698B – Enhanced Octal Universal Asynchronous Receiver/Transmitter (DUART)

DESCRIPTION

The SCC2698B Enhanced Octal Universal Asynchronous Receiver/ Transmitter (Octal UART) is a single chip MOS-LSI communications device that provides eight full-duplex asynchronous receiver/transmitter channels in a single package. It is fabricated with CMOS technology which combines the benefits of high density and low power consumption.

The operating speed of each receiver and transmitter can be selected independently as one of eighteen fixed baud rates, a 16X clock derived from a programmable counter/timer, or an external 1X or 16X clock. The baud rate generator and counter/timer can operate directly from a crystal or from external clock inputs. The ability to independently program the operating speed of the receiver and transmitter make the Octal UART particularly attractive for dual-speed channel applications such as clustered terminal systems.

The receiver is quadruple buffered to minimize the potential of receiver overrun or to reduce interrupt overhead in interrupt driven systems. In addition, a handshaking capability is provided to disable a remote UART transmitter when the receiver buffer is full.

The UART provides a power-down mode in which the oscillator is frozen but the register contents are stored. This results in reduced power consumption on the order of several magnitudes. The Octal UART is fully TTL compatible and operates from a single +5V power supply.

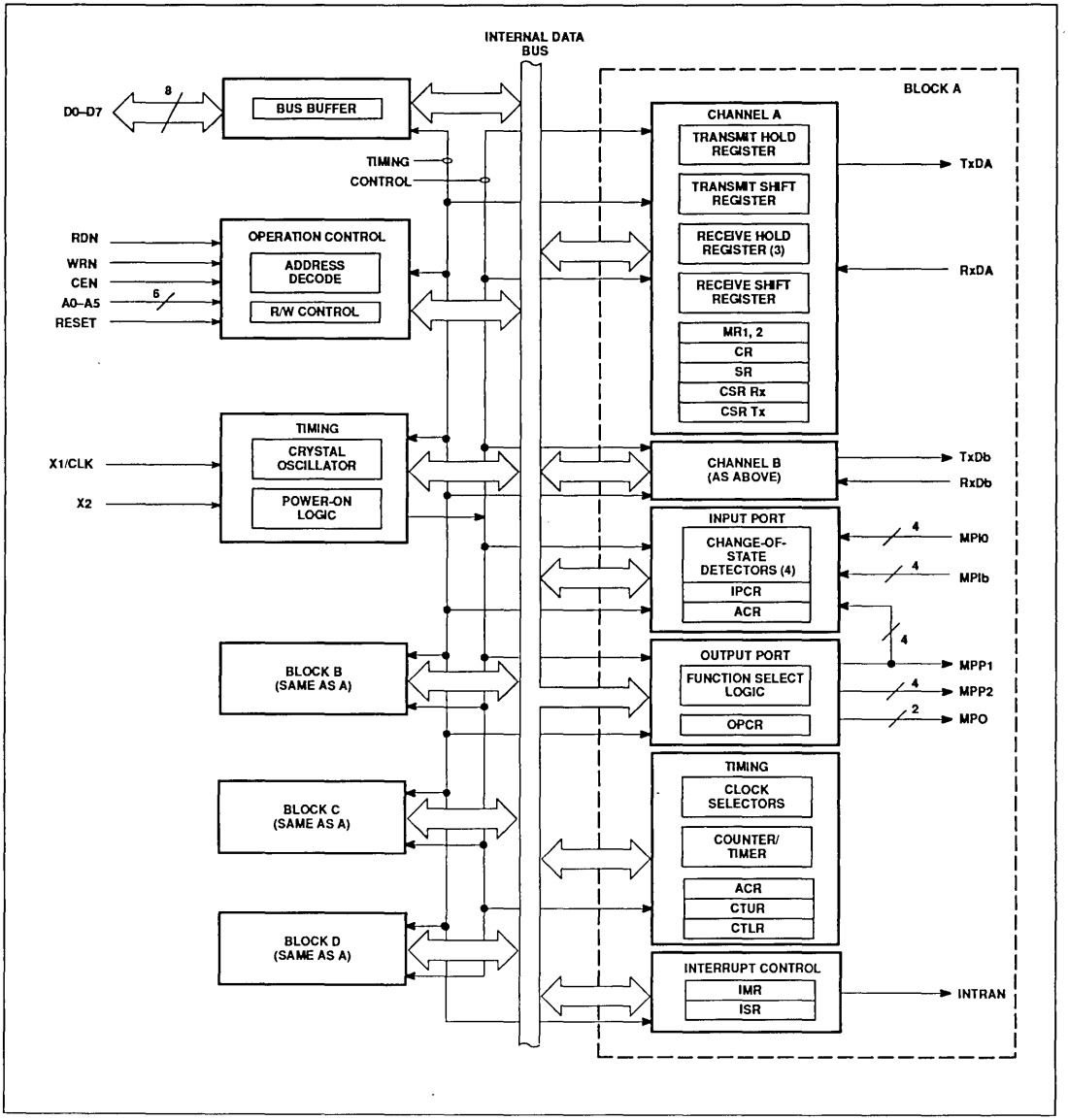
The SCC2698B is an upwardly compatible version of the 2698A Octal UART. In PLCC packaging, it is enhanced by the addition of receiver ready or FIFO full status outputs, and transmitter empty status outputs for each channel on 16 multipurpose I/O pins. The multipurpose I/O pins of the SCC2698B were inputs only on the SCC2698A.

FEATURES

- **Eight full-duplex asynchronous receiver/transmitters**
- **Quadruple buffered receiver data register**
- **Programmable data format:**
  - **5 to 8 data bits plus parity**
  - **Odd, even, no parity or force parity**
  - **1, 1.5 or 2 stop bits programmable in 1/16-bit increments**
- **Baud rate for the receiver and transmitter selectable from:**
  - **18 fixed rates: 50 to 38.4K baud Non-standard rates to 115.2K baud**
  - **User-defined rates from the programmable counter/timer associated with each of four blocks**
  - **External 1X or 16X clock**
- **Parity, framing, and overrun error detection**
- **False start bit detection**
- **Line break detection and generation**
- **Programmable channel mode**
  - **Normal (full-duplex), automatic echo, local loop back, remote loopback**
- **Four multi-function programmable 16-bit counter/timers**
- **Four interrupt outputs with eight maskable interrupting conditions for each output**
- **Receiver ready/FIFO full and transmitter ready status available on 16 multi-function pins in PLCC package**
- **On-chip crystal oscillator**
- **TTL compatible**
- **Single +5V power supply with low power mode**

Product Spotlights

SCC2698B – BLOCK DIAGRAM



Product Spotlights

INDUSTRIAL

NE/SA5234 – Matched Quad High-Performance Low-Voltage Operational Amplifier

DESCRIPTION

The NE/SA5234 is a matched, low voltage, high performance quad operational amplifier. Among its unique input and output characteristics is the capability for both input and output rail-to-rail operation, particularly critical in low voltage applications. The output swings to less than 50mV of both rails across the entire power supply range.

The NE/SA5234 is capable of delivering 5.5V peak-to-peak across a 600Ω load and will typically draw only 700μA per amplifier. The bandwidth is 2.5MHz and the 1% settling time is 1.4μs.

FEATURES

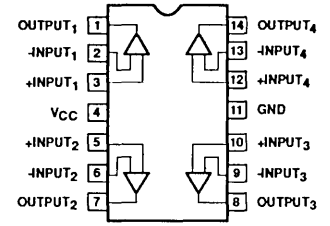
- **Wide common-mode input voltage range: 250mV beyond both rails**
- **Output swing within 50mV of both rails**
- **Functionality to 1.8V typical**
- **Low current consumption: 700μA per amplifier**
- **±15mA output current capability**
- **Unity gain bandwidth 2.5MHz**
- **Slew rate: 0.8V/μS**
- **Low noise: 25nV/√Hz**
- **Electrostatic discharge protection**
- **Short-circuit protection**
- **Output inversion prevention**

APPLICATIONS

- **Automotive electronics**
- **Signal conditioning and sensing amplification**
- **Portable instrumentation**
  - **Test and measurement**
  - **Medical monitors and diagnostics**
  - **Remote meters**
- **Audio equipment**
- **Security systems**
- **Communications**

PIN CONFIGURATION

N, and D PACKAGES



Product Spotlights

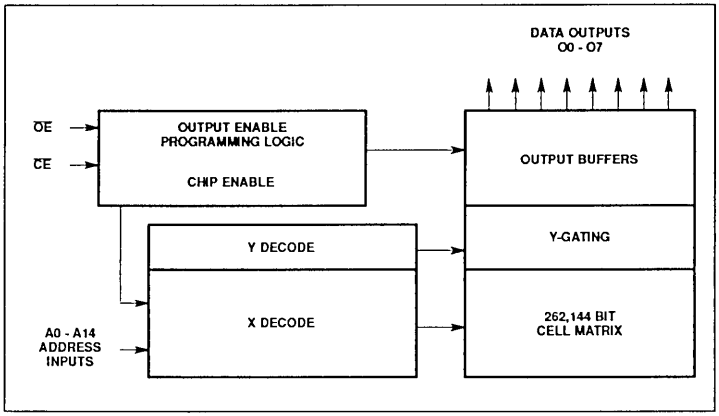
MEMORY – (Military)

27C256 – 256K CMOS UV Erasable PROM (32K × 8)

FEATURES

- CMOS/NMOS microcontroller and microprocessor compatible
  - -Universal 28- or 32-Pin memory site, 2-line control
- Low power consumption
- Noise Immunity features
  - -±10% V_{CC} tolerance
  - -Maximum latch-up immunity through epitaxial processing
- Fast, reliable intelligent programming
  - -12.5V V_{PP}, HCMOS 11-E compatible

LOGIC DIAGRAM

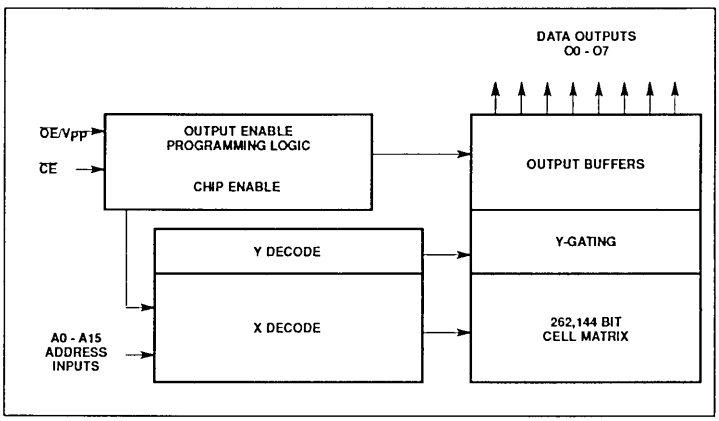


27C512 – 512K CMOS UV Erasable PROM (64K × 8)

FEATURES

- CMOS/NMOS microcontroller and microprocessor compatible
  - -Universal 28-pin memory site, 2-line control
- Low power consumption
- Noise Immunity features
  - -±10% V_{CC} tolerance
  - -Maximum latch-up immunity through epitaxial processing
- Fast, reliable intelligent programming
  - -12.5V V_{PP}, HCMOS 11-E compatible

LOGIC DIAGRAM



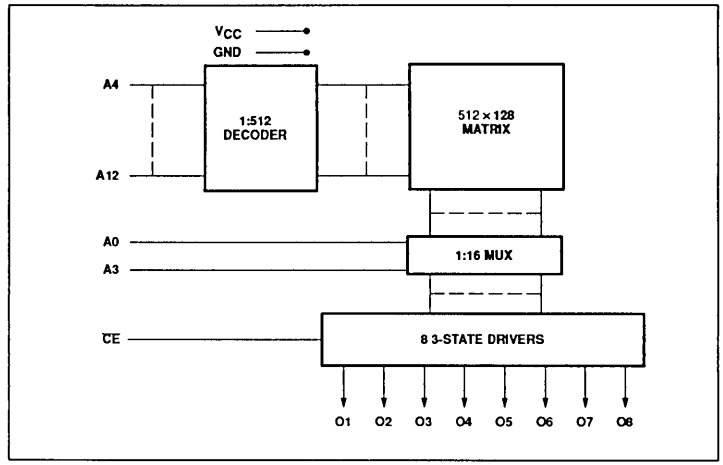
Product Spotlights

27HC641 – 64K-Bit CMOS PROM (8K × 8)

FEATURES

- Address access times 55ns and 70ns
- Max operating I_{CC} of 110mA
- 3-State outputs
- Direct replacement of Bipolar PROMs
- Programmed on industry standard EPROM programmers
- Fully TTL compatible

LOGIC DIAGRAM



Product Information

Index

Product Information

PACKAGE CODES	DESCRIPTION	PACKAGE CODES	DESCRIPTION
A	Plastic Leaded Chip Carriers (PLCC)	M	Module, Memories Programmer, Misc.
B	Plastic Quad Flat Pack	N	Plastic Dual In-Line
C	Chips	P	Pin Grid Array – Hermetic
D	Plastic SO		(PA = Cavity Up, PB = Cavity Down)
E	Hermetic TO46	Q	Hermetic Ceramic Flat Pack
F	Ceramic Dual In-Line	S	Microprocessors/Systems
G	Ceramic Leadless Chip Carrier	U	Plastic Single In-Line
H	Headers	V	Plastic Pin Grid Array
I	Hermetic Sidebraze Ceramic Dual In-Line	W	Ceramic Flat Pack
K	Cerquad J Bend	Y	Ceramic Square Quad Flat Pack
L	Ceramic Leaded Chip Carrier		

A list of Signetics' products that are processed to Military specifications can be found within the alphanumeric listing that begins on page 5-23.

Audio Products

DEVICE TYPE	DESCRIPTION	PACKAGE CODES
DIGITAL AUDIO		
SAA7220	Digital Filter & Interpolator for Digital Audio Processing	N
SAA7310GP	Compact Disk Decoder	A
SAA7322GP	Digital Filter & Bitstream DAC's + Filters	A
SAA7323GP	Digital Filter & Bitstream DAC's + Filters	A
SAA7350GP	20-Bit Bitstream DAC	A
SAA7369	16- or 18-Bit Bitstream Analog-to-Digital Converter	B
TDA1541A	Dual 16-Bit DAC	N
TDA1542	Low Pass Filter	N
TDA1543	Low Cost Dual 16-Bit DAC	N
TDA1543A	Low Cost Dual 16-Bit DAC (Japan Format)	N
TDA1545	Continuous Calibration Dual 16-Bit DAC	D,N
TDA1547	Bitstream Bit DAC	N

DEVICE TYPE	DESCRIPTION	PINS	PACKAGE CODES
POWER AMP			
TDA1010A	6W Audio Power Amplifier	9	U
TDA1011	4W Audio Power Amp with Preamplifier	9	U
TDA1013B	4W Audio Amp with Voltage Control	9	U
TDA1015A	1W to 4W Audio Power Amp	9	U
TDA1015T	0.5W Audio Power Amp	8	D
TDA1016	2W Audio Power Amplifier with Preamplifier	16	N
TDA1020	12W Audio Power Amplifier with Preamplifier	9	U
TDA1512A	7W Audio Power Amplifier	9	U
TDA1514A	50W Hi-Fi Audio Amplifier	9	U
TDA1515B	24W BTL Power Amplifier	13	U
TDA1516Q	Power Amplifier 2 x 11 Watts	13	U
TDA1517	2 x 6W Audio Amplifier	9	U
TDA1518Q	22W Power Amplifier	13	U
TDA1519	2 x 6 Stereo Car Radio 40dB Gain	9	U
TDA1519A	2 x 6 or (22W BTL) Stereo Car Radio 40dB Gain	9	U

Product Information

Audio Products (Cont.)			
DEVICE TYPE	**DESCRIPTION**	**PINS**	**PACKAGE CODES**
POWER AMP (Cont.)			
TDA1520B	20 Watt Hi-Fi Audio Amplifier	9	U
TDA1521	Audio Power Amp (2 x 12W)	9	U
TDA1521A	Audio Power Amp (2 x 12W)	9	U
TDA2611A	2-6W Audio Amplifier	9	U
TDA2613	6W Power Amp	9	U
TDA7050	Low Voltage Mono/Stereo Amp	8	U
TDA7050T	Low Voltage Mono/Stereo Amp	8	D
TDA7052	1W Low Voltage Power Amp	8	N
TDA7052A	1W Low Voltage Power Amp w/ DC Voltage Control	8	N
TDA7053	2 x 1W Low Voltage Power Amp	16	N
TDA7056	3W Audio Power Amp	9	U
TONE CONTROLLER AND PROCESSING			
TDA1029	Audio Switch 1	16	N
TDA1074A	Quad Electr. Potentiometer	18	N
TDA1524A	Stereo-Tone/Volume Control Circuit	18	N
TDA8421	TV Audio Processor (I^2C)	28	N
TDA8425	Audio Processor (I^2C)	20	N
TEA6300T	I^2C Active Tone Controller with Source Inputs & Fader	28	D
TEA6310T	I^2C Active Tone Controller & Fader	24	D
TEA6360	5-Band Equalizer (I^2C)	32	N

CRT Products			
DEVICE TYPE	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
SCN2672	Programmable Video Timing Controller (PVTC)	40-pin Plastic DIP 44-pin PLCC	SCN2672BC4N40 SCN2672BC4A44
SCN2672T	Programmable Video Timing Controller (Turbo-PVTC)	40-pin Plastic DIP 44-pin PLCC	SCN2672TC5N40 SCN2672TC5A4
SCN2674	Advanced Video Display Controller (AVDC)	40-pin Plastic DIP 44-pin PLCC	SCN2674BC4N40 SCN2674BC4A44
SCN2674T	Advanced Video Display Controller (Turbo-AVDC)	40-pin Plastic DIP 44-pin PLCC	SCN2674TC5N40 SCN2674TC5A44
SCB2675	Color/Monochrome Attributes Controller (CMAC)	40-pin Plastic DIP 44-pin PLCC 40-pin Plastic DIP 44-pin PLCC	SCB2675BC5N40 SCB2675BC5A44 SCB2675CC5N40 SCB2675CC5A44
SCC63484	Advanced CRT Controller (ACRTC)	64-pin Plastic DIP 68-pin PLCC	SCC63484C8N64 SCC63484C8A68

Product Information

Data Communications Products

DEVICE TYPE	DESCRIPTION	PACKAGE CODES
CONTROLLERS		
SCN2641	Asynchronous Communications Interface (ACI)	A28, N24
SCN2651	Programmable Communications Interface (PCI)	F28, N28
SCN2652/68652	Multi Protocol Communications Controller (MPCC)-dual numbering for same part	A44, F40, N40
SCN2661/68661	Enhanced Programmable Communications Interface (EPCI)-dual numbering for same part	A28, F28, N28
SCN2681A	Dual Universal Asynchronous Receiver/Transmitter (DUART)-standard version	A44, F28, N24, N28, N40
SCN2681T	Dual Universal Asynchronous Receiver/Transmitter (DUART)-fast (Turbo) version	A44, N40
SCN68681	Dual Universal Asynchronous Reciever/Transmitter (DUART) -68000 Series bus interface	A44, N40
SCC2691	Universal Asynchronous Receiver/Transmitter (UART)-CMOS	A28, D24, N24
SCC2692	Dual Universal Asynchronous Receiver/Transmitter (DUART)-CMOS	A44, F28, F40, N28, N40
SCC68692	Dual Universal Asynchronous Receiver/Transmitter(DUART)-CMOS, 68000 series bus interface	A44, F40, N40
SC26C94	Quad Universal Asynchronous Receiver/Transmitter	N48, A52
SC68C94	Quad Universal Asynchronous Receiver/Transmitter	N48, A52
SCC2698B	Enhanced Octal Universal Asynchronous Receiver/Transmitter (Octal-DUART)-CMOS	A84, N64
SCN26542	Dual Multiprotocol Serial Controller (DMSC)-general purpose bus interface	A52, N40
SCN26562	Dual Universal Serial Communications Controller (DUSCC)-general purpose bus interface	A52, N48
SCN68542	Dual Multiprotocol Serial Controller (DMSC)-68000 Series bus interface	A52, N40
SCN68562	Dual Universal Serial Communications Controller (DUSCC)-68000 Series bus interface	A52, N48
FIBER OPTIC RECEIVERS		
NE/SA/SE5205	Wideband High Frequency Amplifier	D, FE, N
NE/SE521	High-Speed Dual Differential Comparator/Sense Amp	D, F, N
NE/SE522	High-Speed Dual Differential Comparator/Sense Amp	D, F, N
NE/SE527	Voltage Comparator	D, N
NE/SE529	Voltage Comparator	D, N
NE/SE5539	Ultra High Frequency Operational Amplifier	D, F, N
NE/SE564	Phase-Locked Loop	D, F, N
NE/SA568A	150MHz Phase-Locked Loop	D, N
NE/SE592	Video Amplifier	D8, D14, N8, N14, F14
NE5204	Wideband High Frequency Amplifier	D, N
NE5210	Transimpedance Amplifier (280 MHz)	D
NE/SA5211	Transimpedance Amplifier (150 MHz)	D
NE5212A	Transimpedance Amplifier (140 MHz)	D
NE/SA5214	Fiber Optic Postamplifier with Link Status Indicator	D
NE/SA5217	Fiber Optic Postamplifier with Link Status Indicator	D
NE/SA5224	Fiber Optic Postamplifier with Link Status Indicator 100K ECL	D
NE/SA5225	Fiber Optic Postamplifier with Link Status Indicator 10K ECL	D
LAN		
NE8392A	Ethernet Coaxial Transceiver	N
NE86C92	10BASE-T Transceiver	D, N

Product Information

Data Communications Products (Cont.)		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
LINE DRIVERS AND RECEIVERS		
AM26LS30	Dual (RS-422) or Quad (RS-423) Line Driver	D, N
AM26LS31	Quad High-Speed Differential Line Driver	D, N
AM26LS32/33	Quad (RS-422/423) Line Receivers	D, N
AM26LS32B	Quad (RS-422/423) Line Receiver	D, N
MC145406	CMOS Triple Driver/Receiver (EIA-232-D)	D, N
MC1488	Quad Line Driver	D, F, N
MC1489/A	Quad Line Receivers	D, F, N
NE5170	Octal Line Driver	A, N
NE5180/81	Octal Differential Line Receiver	A, N
MODEMS		
NE5050	Power Line Modem	D, N
NE5080	High-Speed FSK Modem Transmitter (IEEE 802.4)	N
NE5081	High-Speed FSK Modem Receiver (IEEE 802.4)	N
PHASE-LOCKED LOOPS		
NE/SE564	Phase-Locked Loop	D, F, N
NE/SE567	Tone Decoder/Phase-Locked Loop	D, F, FE, N
NE/SE568	150MHz Phase-Locked Loop	D, N
TELEPHONY		
NE/SE567	Tone Decoder/Phase-Locked Loop	D, F, FE, N
NE5900	Call Progress Decoder	D, N

Industrial Products		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
AMPLIFIERS		
AU2902	Low Power Quad Operational Amplifier	D, N
AU2904	Low Power Quad Operational Amplifier	D, N
LM124/224/324/A	Low Power Quad Operational Amplifier	D, F, N
LM158/258/358/A	Low Power Quad Operational Amplifier	D, N
MC/SA1458/1558	General Purpose Operational Amplifier	D, N
NE/SA/SE532	Low Power Dual Operational Amplifier	D, N
NE/SA/SE5512	Dual High Performance Operational Amplifier	D, FE, N
NE/SA5230	Low Voltage Operational Amplifier	D, N
NE/SA5234	Quad Low Voltage High Performance Operational Amplifier	D, N
NE/SA5534A	Single and Dual Low Noise Operational Amplifier	D, FE, N
NE/SE4558	Dual General Purpose Operational Amplifier	D, FE, N
NE/SE531	High Slew Rate Operational Amplifier	FE, N
NE/SE5514	Quad High Performance Operational Amplifier	D, F, N
NE/SE5537	Sample-and-Hold Amplifier	D, FE, N
NE5517/A	Dual Operational Transconductance Amplifier	D, N
NE5533/A	Single and Dual Low Noise Operational Amplifier	D, N
SA534	Low Power Quad Operational Amplifier	D, F, N
SA741C	General Purpose Operational Amplifier	FE, N
SA747C	Dual Operational Amplifier	N

Product Information

Industrial Products (Cont.)		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
AMPLIFIERS (Cont.)		
µA733/C	Differential Video Amplifier	F, N
µA741/741C	General Purpose Operational Amplifier	D, N
µA747/747C	Dual Operational Amplifier	F, N
COMPARATORS		
AU2901	Quad Voltage Comparator	D, N
AU2903	Low Power Dual Voltage Comparator	D, N
LM111/211/311	Voltage Comparator	D, FE, N
LM119/219/319	Voltage Comparator	D, F, N
LM139/A/239/A/339/A	Quad Voltage Comparator	D, F, N
LM193/A/293/A/393/A	Low Power Dual Voltage Comparator	D, FE, N
LM2901	Quad Voltage Comparator	D, F, N
LM2903	Low Power Dual Voltage Comparator	D, FE, N
MC3302	Quad Voltage Comparator	D, F, N
NE/SE521	High-Speed Dual Differential Comparator/Sense Amp	D, F, N
NE/SE522	High-Speed Dual Differential Comparator/Sense Amp	D, F, N
NE/SE527	Voltage Comparator	D, N
NE/SE529	Voltage Comparator	D, N
CONVERTERS		
ADC0803/4/5-1	8-Bit CMOS A/D Converter	D, N
ADC0820	8-Bit CMOS A/D Converter	D, N
AM6012	12-Bit Multiplying D/A Converter	D, F
DAC-08 Series	8-Bit High-Speed Multiplying D/A Converter	D, F, N
MC1408-7	8-Bit Multiplying D/A Converter	N
MC1408-8	8-Bit Multiplying D/A Converter	F, N
MC1508-8	8-Bit Multiplying D/A Converter	F
MC3410C	10-Bit High-Speed Multiplying D/A Converter	F
MC3510	10-Bit High-Speed Multiplying D/A Converter	F
NE/SE5018	8-Bit Microprocessor-Compatible D/A Converter	D, F, N
NE/SE5019	8-Bit Microprocessor-Compatible D/A Converter	N
NE/SE5410	10-Bit High-Speed Multiplying D/A Converter	F
NE5020	10-Bit Microprocessor-Compatible D/A Converter	F, N
NE5036	6-Bit A/D Converter, Serial Output	D
NE5037	6-Bit A/D Converter, Parallel Outputs	N
TDA8702	8-Bit 30MHz D/A	D, N
TDA8703	8-Bit 40MHz A/D, TTL Output	D, N
TDA8708	8-Bit 30MHz A/D Source Select, Clamp	D, N
TDA8713, T	8-Bit 40MHz A/D, TTL Output	D, N
TDE8715D	8-Bit 50MHz A/D, ECL Output	F
DISPLAY DRIVERS		
PCF1174BT	4MHz LCD Car Clock	D
PCF1175T	4MHz LCD Car Clock (MPX)	D
PCF8569T	DOT Matrix LCD Driver (Column)	D
PCF8578T	DOT Matrix LCD Driver (Row/Column)	D
PCF8579T	DOT Matrix LCD Driver (Column)	D
PCF1303T	LCD Bargraph Driver 18-Element	D

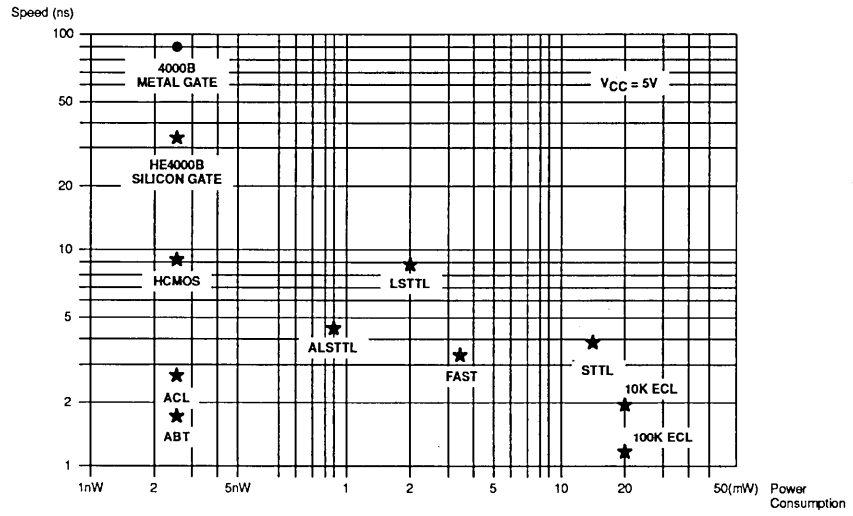
Industrial Products (Cont.)		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
DISPLAY DRIVERS (Cont.)		
PCF2100P, T	40-Segment LCD Driver	D, N
PCF2110P, T	60-Segment LCD Driver and 2 LED	D, N
PCF2111P, T	LCD Duplex Driver 64-Segments	D, N
PCF2112P, T	LCD Driver 32-Segments	D, N
PCF8566P, T	24, 48, 72, 96-Segment LCD Driver	D
PCF8576T	40, 80, 120, 160-Segment LCD Driver	D
PCF8577P, T	32/64-Segment LCD Driver	D, N
SAA1064P	4-Bit LED Driver (I^2C)	N
DRIVERS		
NE/SA594	Vacuum Fluorescent Display Driver	D, F, N
NE5090	Addressable Relay Driver	D, N
NE587	LED Decoder/Driver	N
NE5090	Addressable Relay Drivers	N
NE590	Addressable Peripheral Drivers	F, N
NE591	Addressable Peripheral Drivers	F, N
I^2C/CLIPS		
PCA8582BP	256 x 8 EEPROM; 500K E/W Cycles, -40 to +125°C	N
PCF8570P, T	256 x 8-Bit Static RAM	D, N
PCF8571P, T	128 x 8 Static RAM	D, N
PCF8573P, T	Clock/Calendar w/Serial I/O	D, N
PCF8574AP, T	8-Bit Remote I/O Expandor	D, N
PCF8574P, T	8-Bit Remote I/O Expandor	D, N
PCF8581P, T	128 x 8 EEPROM; 10K E/W Cycles	D, N
PCF8581CP, T	128 x 8 EEPROM; 10K E/W Cycles, 2.5V	D, N
PCF8582CP, T	256 x 8 EEPROM; 500K E/W Cycles, 2.5V	D, N
PCF8582EP, T	256 x 8 EEPROM; 100K E/W Cycles	D, N
PCF8583P, T	Clock I/O with 256 x 8 RAM, I^2C	D, N
PCD8584P, T	Parallel Bus to I^2C Converter	D, N
PCF8591P, T	ADC/DAC with I^2C	D, N
TDA8444T	Octal 6-Bit DAC	D
MOTOR CONTROLLER/VOLTAGE DETECTOR		
HEF4752VP	AC Motor Control Circuit	N
PCF1252-0 thru 9	Micropower Voltage Detector	D, N
TDA5142T	Brushless DC Motor Driver Requires External FETS	D
TDA5143T	Brushless DC Motor Driver 0.6 Amp Output Drive	D
TDA5144AT	Brushless DC Motor Driver 1.8 Amp Output Drive	D
TDA5145	Brushless DC Motor Driver Bidirectional Driver	D
TDA1023	TRIAC Control	D, N
SAMPLE-AND-HOLD		
LF198/298/398	Sample-and-Hold Amplifier	D, FE, N
NE/SE5537	Sample-and-Hold Circuit	D, FE, N
SPEECH SYNTHESIS/VOICE/SOUND		
OM8210	Speech Encoding System	PC Board
PCF8200	Single-Chip CMOS Male/Female Speech Synthesizer	N
SAA1099	Stereo Sound Generator for Sound Effects and Music Synthesis	N

Product Information

Industrial Products (Cont.)		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
TIMERS AND CLOCKS		
ICM7555	General Purpose CMOS Timer	D, N
NE/SA/SE556/-1	Dual Timer	D, F, N
NE/SA/SE558	Quad Timer	D, F, N
NE/SE555/SE555C	Timer	D, FE, N
SE556-1C	Dual Timer	D, N

Logic Products

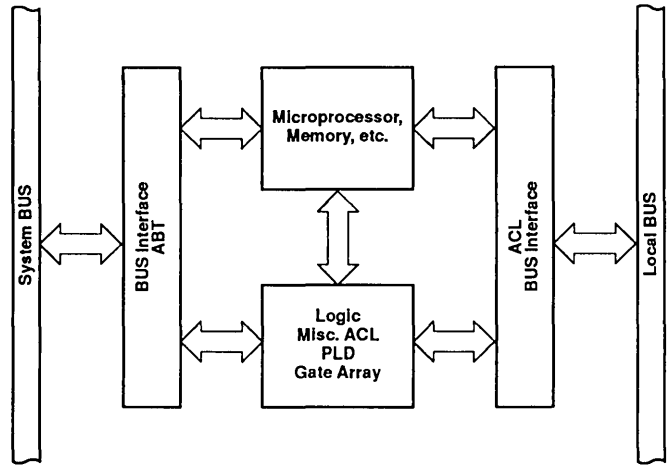
LOGIC FAMILY SPEED/POWER SPECTRUM



Product Information

Logic Products (Cont.)

POWER/PERFORMANCE CONSCIOUS SYSTEM



DEVICE TYPE	PIN #	DESCRIPTION	PACKAGE CODES
ABT			
74ABT241	20	Octal Buffer, 3-State	D, N
74ABT244	20	Octal Buffer, 3-State	D, N
74ABT245	20	Octal Transceiver, 3-State	D, N
74ABT273	20	Octal D Flip/Flop, Asynchronous Reset	D, N
74ABT373	20	Octal Latch, 3-State	D, N
74ABT374	20	Octal D Flip/Flop, 3-State	D, N
74ABT377	20	Octal D Flip/Flop, Enable	D, N
74ABT534	20	Octal D Flip/Flop, Inverting, 3-State	D, N
74ABT541	20	Octal Buffer, 3-State	D, N
74ABT543	24	Octal Latched Transceiver, 3-State	D, N
74ABT544	24	Octal Latched Transceiver, Inverting, 3-State	D, N
74ABT573	20	Octal Latch, 3-State	D, N
74ABT574	20	Octal D Flip/Flop, 3-State	D, N
74ABT623	20	Octal Transceiver, 3-State	D, N
74ABT646	24	Octal Registered Transceiver, 3-State	D, N
74ABT648	24	Octal Registered Transceiver, Inverting, 3-State	D, N
74ABT652	24	Octal Registered Transceiver, 3-State	D, N
75ABT657	24	Octal Transceiver, 8-Bit Parity, 3-State	D, N
74ABT863	24	9-Bit Transceiver, 3-State	D, N
74ABT2952	24	Octal Registered Transceiver, 3-State	D, N
74ABT2953	24	Octal Registered Transceiver, Inverting, 3-State	D, N

Logic Products (Cont.)					
FUNCTION	DEVICE TYPE		# OF	DESCRIPTION	PACKAGE CODES
11XXX	AC	ACT	PINS		
ACL					
000	X	X	16	Quad 2-inp NAND	D, N
002	X	X	16	Quad 2-inp NOR	D, N
004	X	X	20	Hex Inverter	D, N
008	X	X	16	Quad 2-inp AND	D, N
010	X	X	16	Triple 3-inp NAND	D, N
011	X	X	16	Triple 3-inp AND	D, N
013	X	X	14	Dual Schmitt-Trigger	D, N
014	X	X	20	Hex Schmitt-Trigger	D, N
020	X	X	14	Dual 4-inp NAND	D, N
021	X	X	14	Dual 4-inp AND	D, N
027	X	X	16	Triple 3-inp NOR	D, N
030	X	X	14	8-input NAND	D, N
032	X	X	16	Quad 2-inp OR	D, N
034	X	X	20	Hex non inverter	D, N
074	X	X	14	Dual D-type Flip/Flop	D, N
086	X	X	16	Quad 2-inp Excl OR	D, N
109	X	X	16	Dual J-K Flip/Flop	D, N
112	X	X	16	Dual J-K Flip/Flop	D, N
132	X	X	16	Quad Schmitt-Trigger	D, N
138	X	X	16	3-to-8 Line Dec/Demux	D, N
139	X	X	16	Dual Dec/Demux	D, N
151	X	X	16	8-inp MUX	D, N
153	X	X	16	Dual 4-inp MUX	D, N
157	X	X	20	Quad 2-inp MUX	D, N
158	X	X	20	Quad 2-inp MUX	D, N
160	X	X	20	BCD Decode Counter	D, N
161	X	X	20	4-Bit Binary Counter	D, N
162	X	X	20	BCD Decode Counter	D, N
163	X	X	20	4-Bit Binary Counter	D, N
174	X	X	20	Hex D-Type Flip/Flop	D, N
175	X	X	20	Quad D-Type Flip/Flop	D, N
190	X	X	20	Decode Up/Down Counter	D, N
191	X	X	20	4-Bit Binary Counter	D, N
194	X	X	20	4-Bit Bidirectional S.R.	D, N
238	X	X	16	2-to-8 Line Dec/Demux	D, N
239	X		16	Dual Dec/Demux	D, N
240	X	X	24	Octal Buffer/Line Driver	D, N
241	X	X	24	Octal Buffer/Line Driver	D, N
244	X	X	24	Octal Buffer/Line Driver	D, N
245	X	X	24	Octal Transceiver	D, N
251	X	X	16	8-inp MUX	D, N
253	X	X	16	Dual 4-inp MUX	D, N
257	X	X	20	Quad 2-inp MUX	D, N
258	X	X	20	Quad 2-inp MUX	D, N
269	X	X	28	8-Bit Binary Up/Down Counter	D, N
273	X	X	24	D-Type Flip/Flop	D, N

Logic Products (Cont.)					
FUNCTION	DEVICE TYPE		# OF	DESCRIPTION	PACKAGE CODES
11XXX	AC	ACT	PINS		
ACL (Cont.)					
280	X	X	14	Parity Generator	D, N
286	X	X	14	Parity Generator	D, N
352	X	X	16	Dual 4-inp MUX	D, N
353	X	X	16	Dual 4-inp MUX	D, N
373	X	X	24	Octal D-Type Latch	D, N
374	X	X	24	Octal D-Type Flip/Flop	D, N
377	X	X	24	Octal D-Type Flip/Flop	D, N
378	X	X	20	Hex D-Type Flip/Flop	D, N
379	X	X	20	Quad D-Type Flip/Flop	D, N
470	X	X	28	Quad Transceiver-Register	D, N
471	X	X	28	Quad Transceiver-Register	D, N
520	X	X	20	8-Bit Comparator	D, N
521	X	X	20	8-Bit Comparator	D, N
533	X	X	24	Octal D-Type Latch	D, N
534	X	X	24	Octal D-Type Flip/Flop	D, N
543	X	X	28	Octal Latched Transceiver	D, N
544	X	X	28	Octal Latched Transceiver	D, N
620	X	X	24	Octal Transceiver	D, N
623	X	X	24	Octal Transceiver	D, N
640	X	X	24	Octal Transceiver	D, N
643	X	X	24	Octal Transceiver	D, N
646	X	X	28	Octal Transceiver	D, N
648	X	X	28	Octal Transceiver	D, N
651	X	X	28	Octal Transceiver-Register	D, N
652	X	X	28	Octal Transceiver	D, N
656	X	X	28	Octal Buffer	D, N
657	X	X	28	Octal Transceiver	D, N
810	X	X	16	Quad 2-inp Excl. NOR	D, N
821	X	X	28	10 Wide D-Type Flip/Flop	D, N
823	X	X	28	9 Wide D-Type Flip/Flop	D, N
827	X	X	28	10 Wide Buffer/Line Driver	D, N
828	X	X	28	10 Wide Buffer/Line Driver	D, N
841	X	X	28	10 Wide D-Type Latch	D, N
862	X	X	28	10 Wide Transceiver	D, N
873	X	X	28	Dual D-Type Flip/Flop	D, N
874	X	X	28	Dual D-Type 4-Bit Flip/Flop	D, N
898	X	X	20	10-Bit S.R.	D, N
979		X	16	Read-Back Register	D, N

Product Information

COM = *Complexity*:
S = *Small Scale Integration (SSI)*
M = *Medium Scale Integration (MSI)*
L = *Large Scale Integration (LSI)*
A = *Available*
* = *See Comments*

Logic Products (Cont.)

74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC								
00	Quad 2-Input NAND Gate	S	A	A	A	A	A*	* "A" version
01	Quad 2-Input NAND Gate, OC	S		A				
02	Quad 2-Input NOR Gate	S	A	A	A	A	A*	* "A" version
03	Quad 2-Input NAND Gate, OC	S	A		A			
04	Hex Inverter	S	A	A	A	A	A	
05	Hex Inverter, OC	S	A	A	A			
06	Hex Inverter, Buffer/Driver, OC	S	A**			A*		* SSF ** 30V, 30mA output version of 7404
07	Hex Buffer/Driver, OC	S	A**			A*		* SSF ** Non-inverting version of 7406
08	Quad 2-Input AND Gate	S	A	A	A	A	A	
09	Quad 2-Input AND Gate, OC	S		A				
10	Triple 3-Input NAND Gate	S	A	A	A	A	A*	* "A" version
11	Triple 3-Input AND Gate	S		A	A	A	A*	* "A" version
13	Dual 4-Input NAND Schmitt Trigger	S		A		A*		* SSF
14	Hex Schmitt Trigger	M	A	A		A*		* SSF
16	Hex Inverter Buffer/Driver, OC	S	A*					* Low voltage version of 7406
17	Hex Buffer/Driver, OC	S	A*					* Low voltage version of 7407
20	Dual 4-Input NAND Gate	S	A	A	A	A	A*	* "A" version
21	Dual 4-Input AND Gate	S		A				
25	Dual 4-Input NOR with Strobe	S	A*					* I_{OH} = 50μA version of 7403. Recommended for large wire-OR/ AND applications
26	Quad 2-Input NAND Gate, OC	S	A	A				
27	Triple 3-Input NOR Gate	S		A**		A*	A	* SSF ** 1991 Prune
30	8-Input NAND Gate	S		A		A	A*	* "A" version
32	Quad 2-Input OR Gate	S	A	A	A	A	A	
33	Quad 2-Input NOR Buffer	S	A	A				
37	Quad 2-Input NAND Buffer	S	A	A	A	A		
38	Quad 2-Input NAND Buffer, OC	S	A	A	A	A	A*	* "A" version
39	Quad 2-Input NAND Buffer, OC	S	A					
40	Dual 4-Input NAND Buffer	S			A*	A		* SSF See S140 for 50Ω line driver version
45	BCD-to-Decimal Decoder/Driver, OC	M	A*					* See 7445 for high current, high voltage versions
51	Dual 2-Wide 2-Input AOI Gate	S	A	A	A	A		
54	4-Wide 2-Input AOI Gate	S		A				
64	4-2-3-2-Input AOI Gate	S			A	A		
73	Dual J-K Master-Slave Flip/Flop	S		A				
74	Dual D-Type Edge-Triggered Flip/Flop	S	A	A*	A	A	A	* "A" version (LS/ALS)

Logic Products (Cont.)

74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC (Cont.)								
75	Quad Bi-Stable Latch	M		A*				* 1991 Prune
76	Dual J-K Master-Slave Flip/Flop	S		A				
83	4-Bit Binary Adder, Fast Carry	M				A*		* SSF
83A	4-Bit Binary Adder, Fast Carry	M		A*				* See LS283 for corner power pin version
85	4-Bit Magnitude Comparator	M	A	A	A	A*		* SSF
86	Quad 2-Input Exclusive-OR Gate	S	A	A	A	A	A	
90	Decade Ripple Counter	M	A	A*				* See LS290 for corner power pin version
92	Divide-by-Twelve Counter	M	A	A				
93	4-Bit Binary Ripple Counter	M	A	A*				* See LS293 for corner power pin version
95B	4-Bit Shift Register	M		A*				* 1991 Prune
96	5-Bit Shift Register	M	A	A				
107	Dual J-K Master-Slave Flip/Flop	S		A				
109	Dual J-K Positive Edge-Triggered F/F	S		A*		A	A	* "A" version
112	Dual J-K Negative Edge-Triggered F/F	S		A	A	A		
113	Dual J-K Negative Edge-Triggered F/F	S		A		A		
114	Dual J-K Flip/Flop	S				A		
121	Monostable Multivibrator	S	A					
123	Retriggerable Monostable Multivibrator	M	A*					* 74123 meets TI spec. CY323 available with spec difference
125	Quad 3-State Buffer	S	A*	A**		A		* Replaces 8093 ** "A" version
126	Quad 3-State Buffer	S	A*	A**		A		* Replaces 8094 ** "A" version
132	Quad Schmitt Trigger	M		A		A		
133	13-Input NAND Gate	S			A	A		
134	12-Input NAND Gate, 3-State Outputs	S			A			
136	Quad Exclusive-OR, OC	S		A				
138	3-to-8 Decoder/Demux	M		A	A	A		
139	Dual 2-to-4 Decoder/Demux	M		A*	A	A		* Pin-for-pin replacement for 93L21
140	Dual 4-Input NAND Line Driver	S			A*			* 50Ω line driver
145	BCD-to-Decimal Decoder/Driver, OC	M	A*					* 145 is 80mA, 15V output version of 7442. For 7V output use LS445
148	8-to-3 Priority Encoder	M				A		
150	16-to-6 MUX	M	A*					* 600mil-wide DIP
151	8-to-1 MUX	M		A	A	A	A	
151A	8-to-1 MUX	M		A	A	A		
153	Dual 4-to-1 MUX	M		A	A	A	A	
154	4-to-16 Decoder/Demux	M	A*	*A**		A		* 74154 = Pin-for-pin replacement for 9311 ** LS154 = Pin-for-pin replacement for 93L11 * 600mil-wide DIP
155	Dual 2-to-4 Decoder/Demux	M		A				
156	Dual 2-to-4 Decoder/Demux, OC	M		A				

Logic Products (Cont.)

74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC (Cont.)								
157	Quad 2-to-1 MUX	M	A*	A**	A	A	A	* 74157 = Pin-for-pin replacement for 9322 ** LS157 = Pin-for-pin replacement for 93L22
157A	Quad 2-to-1 MUX					A		
158	Quad 2-to-1 MUX	M	A*	A	A	A	A	* Sole Source
158A	Quad 2-to-1 MUX					A		
160	Synchronous 4-Bit Decade Counter	M		A*		A*		* "A" version
161	Synchronous 4-Bit Binary Counter	M		A*		A*	A**	* "A" version ** "B" version
162	Synchronous 4-Bit Decade Counter	M		A*		A*		* "A" version
163	Synchronous 4-Bit Binary Counter	M		A*		A*	A**	* "A" version ** "B" version
164	8-Bit PISO Shift Register	M	A	A		A		
166	8-Bit PISO Shift Register	M	A			A*		* SSF
168	4-Bit BCD Up/Down Counter	M				A		
169	4-Bit Binary Up/Down Counter	M				A		
173	Quad D-Type F/F, 3-State	M		A		A*		* SSF High-Speed 8T10
174	Hex D-Type F/F with Clear	M	A	A	A	A	A	
175	Quad D-Type F/F	M	A	A	A	A	A	
177	Presettable Binary Counter/Latch	M	8281	*	**			* LS197 ** 82S81 These devices are sold as 82XXX only. There are spec differences from 74XX equivalent devices
179	4-Bit Parallel Access Shift Register	M	*					* Available as 8271
181	4-Bit Arithmetic Logic Unit	M			A*	A		* 1991 Prune
182	Carry Look-Ahead Generator	M				A		
189A	64-Bit RAM, 3-State					A		C3F189A replaces NSC 300mil SO. 74F189A 150mil SO recommended for new designs.
190	Decade Up/Down Counter	M				A		
191	Binary Up/Down Counter	M		A		A		
192	Decade Up/Down Counter	M	A	A		A		
193	4-Bit Binary Up/Down Counter	M	A	A		A		
194	4-Bit Bidirectional Shift Register	M	A	A*	A	A		* 1991 Prune
195	4-Bit Parallel-Access Shift Register	M		A	A	A		
197	Presettable Binary Counter/Latch	M		A*				* 1991 Prune
198	8-Bit Bidirectional Universal S/R	M				A*		* SSF
199	8-Bit Universal Shift Register	M	A**			A*		* SSF ** 600mil-wide DIP
219A	64-Bit RAM	L				A		C3F219A replaces NSC 300mil SO. 74F219A recommended for new designs.
222	16 x 4 Sync. FIFO	M						
224	16 x 4 Sync. FIFO	M						
225	16 x 5 Asynchronous FIFO (3-State)	M			A			
240	Octal 3-State Buffer	M		A	A	A*		* "A" version

Logic Products (Cont.)								
74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC (Cont.)								
240A-1	Octal 3-State Buffer						A	
241	Octal 3-State Buffer	M		A	A	A	A*	* "A" version
241A-1	Octal 3-State Buffer						A	
242	Quad Bus Transceiver	M		A		A		
243	Quad Bus Transceiver	M		A		A		
244	Octal 3-State Buffer	M		A	A	A	A*	* "A" version
244A-1	Octal 3-State Buffer						A	
245	Octal Bus Transceiver	M		A		A	A*	* "A" version
245A-1	Octal Bus Transceiver						A	
251	8-to-1 MUX, 3-State	M		A*	A	A	A	* 1991 Prune
251A	8-to-1 MUX, 3-State	M			A	A		
253	Dual 4-to-1 MUX, 3-State	M		A	A	A	A	
256	Dual 4-Bit Addressable Latch	M		A		A		
257	Quad 2-to-1 MUX, 3-State	M			A	A	A	
257A	Quad 2-to-1 MUX, 3-State			A		A		
258	Quad 2-to-1 MUX, 3-State	M			A	A	A	
258A	Quad 2-to-1 MUX, 3-State			A		A		
259	8-Bit Addressable Latch	M	9334	A*		A		* Pin-for-pin replacement for 93L34
260	Dual 5-Input NOR Gate	S		A	A	A		
266	Quad Exclusive-OR, OC	S	8242	A*				* Pin-for-pin replacement for 9386
269	8-Bit Binary Counter	M				A*		* SSF
273	Octal D Flip/Flop	M		A	A	A	A	
280	9-Bit Odd/Even Parity Generator/ Checker	M			A	A*		* "A" and "B" versions. SSF
283	4-Bit Adder	M		A*		A		* Corner power pin version of LS83
290	Decade Counter	M		A*				* Corner power pin version of LS90
293	4-Bit Binary Counter	M		A*				* Corner power pin version of LS93
295B	4-Bit Shift Register, 3-State	M		A*				* 1991 Prune
298	Quad 2-Input MUX with Storage	M		A		A		
299	Octal Shift/Storage Register, 3-State	M				A		
322	Octal Shift/Storage Register, 3-State	M				A		
323	Octal Shift/Storage Register, 3-State	M				A		
350	4-Bit Four-Way Shifter	M			A	A		
352	Dual 4-to-1 MUX, Inverting (Inverting version of LS153)	M		A		A		
353	Dual 4-to-1 MUX, 3-State, Inverting (Inverting version of LS253)	M		A		A		
365	Hex Buffer with Common Enable, 3-State	M	A*	A**		A		* 74365 = Pin-for-pin replacement for 8095 ** "A" version
366	Hex Inverter with Common Enable, 3-State	M	A*	A**		A		* 74366 = Pin-for-pin replacement for 8096 ** "A" version
367	Hex Buffer, 4-Bit & 2-Bit, 3-State	M	A*	A**		A		* 74367 = Pin-for-pin replacement for 8097 ** "A" version. SSF
368	Hex Inverter, 4-Bit & 2-Bit, 3-State	M	A*	A**		A		* 74368 = Pin-for-pin replacement for 8098 ** "A" version

Product Information

Logic Products (Cont.)

74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC (Cont.)								
373	Octal 3-State Latch	M		A	A	A	A	
374	Octal D Flip/Flop, 3-State	M		A	A	A	A	
375	Quad Latch	M		A*				* Corner power pin version of LS75
377	Octal D-Type Flip/Flop with Enable	M		A		A	A	
378	Hex D Flip/Flop with Enable	M		A		A		
379	Quad Flip/Flop with Enable	M				A		
381	4-Bit ALU	M				A		
382	4-Bit ALU	M				A		
385	Quad Serial Adder/Subtractor	M				A		
390	Dual Decade Ripple Counter	M		A				
393	Dual Binary Ripple Counter	M		A		A*		* SSF
395A	4-Bit Cascadable S/R, 3-State	M		A		A		
398	Quad 2-Port Register	M				A		
399	Quad 2-Port Register	M				A		
410	Register Stack 16 x 4 RAM	M				A		
412	Octal Multi-Mode Buffered Latch	M				A		
429	Cascadable FIFO RAM Controller	L		A*				* Sole source LSI. 1991 Prune
432	Octal Multi-Mode Buffered Latch	M				A		
455	Octal Buffer with Parity Gen/Check	M				A*		* SSF
456	Octal Buffer with Parity Gen/Check	M				A*		* SSF
490	Dual Decade Ripple Counter	M		A				
521	8-Bit Identity Comparator	M				A		
524	8-Bit Register Comparator	M				A		
533	Inverting Octal D-Latch, 3-State	M		A		A		
534	Octal Clocked Latch Inverting Outputs	M		A	A	A		
537	1-of-10 Decoder, 3-State	M				A		
538	1-of-8 Decoder, 3-State	M				A		
539	Dual 1-of-4 Decoder, 3-State	M				A		
540	Octal Driver	M		A		A		
541	Octal Driver	M		A		A		
543	Octal Transparent Bidirectional Latch	M				A		
543-1	Octal Transparent Bidirectional Latch	M						
544	Octal Transparent Bidirectional Latch	M				A		
544-1	Octal Transparent Bidirectional Latch	M						
545	Octal Bus Transceiver	M				A		
547	Octal Decoder/MUX w/Latches and Acknowledge	M				A		
548	Octal Decoder/MUX w/Acknowledge	M				A		
552	Octal Registered XCVR w/Flags, INV, 3-State	M				A		
563	Octal D-Latch Broadside 'F533	M				A	A*	* "A" version
564	Octal D F/F Broadside 'F534	M				A	A*	* "A" version
568	4-Bit BCD Decade Up/Down Counter	M				A		
569	4-Bit Binary Up/Down Counter	M		A*		A		* 1991 Prune
573	Octal D-Latch Broadside 'F373	M				A	A*	* "B" version
574	Octal D F/F Broadside 'F374	M				A	A*	* "A" version
579	8-Bit Counter Common I/O, 3-State	M				A		

Logic Products (Cont.)								
74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC (Cont.)								
582	4-Bit BCD ALU	M				A		High Speed 82S82
583	4-Bit BCD Adder	M				A		High Speed 82S83
588	GPIB Compatible Transceiver	M				A		
595	8-Bit Shift Register w/Output Latch	M				A*		* SSF
597	8-Bit Shift Register w/Input Latch	M				A*		* SSF
598	8-Bit Shift Register w/Input Latch	M						
604	Dual 8-Bit Latch, 3-State	M				A*		* SSF
605	Dual 8-Bit Latch, OC	M				A*		* SSF
620	Octal Transceiver, 3-State	M		A		A	A*	* "A" version
620-1	Octal Transceiver, 3-State						A*	* "A" version
621	Octal Transceiver, OC	M		A		A		
622	Octal Transceiver, 3-State	M		A		A		
623	Octal Transceiver, OC	M		A		A	A*	* "A" version
623-1	Octal Transceiver, 3-State						A*	* "A" version
640	Octal Bus Transceiver	M		A		A		
640-1	Octal Bus Transceiver, OC	M		A				
641	Octal Bus Transceiver, OC	M		A		A*		* SSF
641-1	Octal Bus Transceiver, OC	M		A				
642	Octal Bus Transceiver	M		A		A*		* SSF
642-1	Octal Bus Transceiver	M		A				
645	Octal Bus Transceiver	M		A			A	
645-1	Octal Bus Transceiver	M		A			A	
646	Octal Bus Transceiver/Register, 3-State	M				A	A	
646A	Octal Bus Transceiver/Register, 3-State	M				A		
646-1	Octal Bus Transceiver/Register, 3-State	M					A	
647	Octal Bus Transceiver/Register, OC	M				A*		* SSF
648	Octal Bus Transceiver/Register, 3-State	M				A	A	
648A	Octal Bus Transceiver/Register, 3-State	M				A		
648-1	Octal Bus Transceiver/Register, 3-State	M					A	
649	Octal Bus Transceiver/Register, INV, OC	M				A*		* SSF
651	Octal Transceiver/Register, INV, 3-State	M				A	A	
651A	Octal Transceiver/Register, INV, 3-State	M				A		
651-1	Octal Transceiver/Register, INV, 3-State	M					A	
652	Octal XCVR/Register, NINV, 3-State	M				A	A	
652A	Octal XCVR/Register, NINV, 3-State	M				A		
652-1	Octal XCVR/Register, NINV, 3-State	M					A	
653	Octal Transceiver/Register, INV, OC	M				A*		* SSF
654	Octal Transceiver/Register, NINV, OC	M				A*		* SSF
655A	Octal Inverting Buffer w/ Parity Gen/ Check	M				A*		* SSF
656A	Octal Buffer with Parity Gen/Check	M				A*		* SSF
657	Octal Transceiver w/ Parity Gen/Check	M				A		
670	4 x 4 Register File, 3-State	M		A		A*		* 3-State version of '170. SSF
674	16-Bit Shift Register, PISO	M				A		
676	16-Bit Shift Register, PISO	M				A		
711	Quint 2-Input MUX	M				A*		* SSF
711A	Quint 2-Input MUX	M				A*		* SSF

Logic Products (Cont.)								
74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC (Cont.)								
711-1	Quint 2-Input MUX	M				A*		* SSF
712	Quint 3-Input MUX	M				A*		* SSF
712A	Quint 3-Input MUX	M				A*		* SSF
712-1	Quint 2-Input MUX	M				A*		* SSF
723	Quad 3-Input MUX	M				A*		* SSF
723A	Quad 3-Input MUX	M				A*		* SSF
723-1	Quad 3-Input MUX	M				A*		* SSF
725	Quad 3-Input MUX	M				A*		* SSF
725A	Quad 3-Input MUX	M				A*		* SSF
725-1	Quad 4-Input MUX	M				A*		* SSF
732	Quad Data MUX, NINV	M				A*		* SSF
733	Quad Data MUX, INV	M				A*		* SSF
755	9-Bit to 8-Bit Latch w/Ready					A*		* SSF
756	Octal Bus Line Driver					A*		* SSF
757	Octal Bus Line Driver					A*		* SSF
760	Octal Bus Line Driver					A*		* SSF
764	DRAM Dual Ported Controller w/Latch	L				A*		* SSF, 100MHz
764-1	DRAM Dual Ported Controller w/Latch	L				A*		* SSF
765	DRAM Dual Ported Controller w/o Latch	L				A*		* SSF, 100MHz
765-1	DRAM Dual Ported Controller w/o Latch	L				A*		* SSF
776	Octal Bidirectional Latched Pi-Bus Transceiver	M				A*		* SSF
779	8-Bit Counter, 3-State	M				A*		* SSF
786	4-Bit Async. Arbiter	M				A*		* SSF
804	Hex 2-Input NAND Driver	M				A*		* SSF
805	Hex 2-Input NOR Driver	M				A*		* SSF
808	Hex 2-Input AND Driver	M				A*		* SSF
821	10-Bit Register, NINV, 3-State	M				A		
822	10-Bit Register, INV, 3-State	M				A		
823	9-Bit Register, NINV, 3-State	M				A		
824	9-Bit Register, INV, 3-State	M				A		
825	8-Bit Register, NINV, 3-State	M				A		
826	8-Bit Register, INV, 3-State	M				A		
827	10-Bit Buffer, NINV, 3-State	M				A		
828	10-Bit Buffer, INV, 3-State	M				A		
832	Hex 2-Input OR Driver	M				A*		* SSF
835	Latched Octal Shift Register w/2:1 MUX	M				A*		* SSF
841	10-Bit Latch, NINV, 3-State	M				A		
842	10-Bit Latch, INV, 3-State	M				A		
843	9-Bit Latch, NINV, 3-State	M				A		
844	9-Bit Latch, INV, 3-State	M				A		
845	8-Bit Latch, NINV, 3-State	M				A		
846	8-Bit Latch, INV, 3-State	M				A		
861	10-Bit Transceiver, NINV, 3-State	M				A*		* SSF
862	10-Bit Transceiver, INV, 3-State	M				A*		* SSF
863	9-Bit Transceiver, NINV, 3-State	M				A*		* SSF
864	9-Bit Transceiver, INV, 3-State	M				A*		* SSF

Logic Products (Cont.)								
74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC (Cont.)								
881	ALU/Function Generator	M				A*		* SSF
882	32-Bit Carry Look-Ahead Generator	M				A*		* SSF
899	9-Bit Dual Latched XCVR w/8-Bit Parity Generator/Checker	M						
900	9-Bit Synch. Bus Transceiver w/ Parity	M						
1240	Octal Buffer, 3-State	M				A*		* SSF
1241	Octal Buffer, 3-State	M				A*		* SSF
1242	Quad Bus Transceiver	M				A*		* SSF
1243	Quad Bus Transceiver	M				A*		* SSF
1244	Octal Buffer, 3-State	M				A*		* SSF
1245	Octal Bus Transceiver, 3-State	M				A*		* SSF
1604	Dual Octal Latch	M				A*		* SSF
1762	4MBit Memory Address Controller	L				A*		* SSF
1763	1MBit Intelligent DRAM Controller	L				A*		* SSF
1764	1MBit DRAM Dual Ported Controller with Latch	L				A*		* SSF, 100MHz
1764-1	1MBit DRAM Dual Ported Controller with Latch	L				A*		* SSF
1765	1MBit DRAM Dual Ported Controller without Latch	L				A*		* SSF, 100MHz
1765-1	1MBit DRAM Dual Ported Controller without Latch	L				A*		* SSF
1766	Burst Mode DRAM Controller	L				A*		* SSF
1779	8-Bit Counter, 3-State	M				A*		* SSF
1801	Bit Stream Manager EN/DEC	L		A*				* Sole Source LSI
1802	Serializer/Deserializer	L		A*				* Sole Source LSI
1804	Hex 2-Input NAND Driver, Center Power 'F804	M				A*		* SSF
1805	Hex 2-Input NOR Driver, Center Power 'F805	M				A*		* SSF
1808	Hex 2-Input AND Driver, Center Power 'F808	M				A*		* SSF
1832	Hex 2-Input OR Driver, Center Power 'F832	M				A*		* SSF
2240	Octal Bus/Line Driver, INV, 3-State	M				A*		* SSF
2241	Octal Bus/Line Driver, NINV, 3-State	M				A*		* SSF
2244	Octal Bus/Line Driver, NINV, 3-State	M				A*		* SSF
2952	Octal Registered XCVR, NINV, 3-State	M				A		
2953	Octal Registered XCVR, INV, 3-State	M				A		
3037	30Ω Transmission Line Driver, Quad 2-Input NAND	S				A*		* SSF
3038	30Ω Transmission Line Driver, Quad 2-Input NAND, OC	S				A*		* SSF
3040	30Ω Transmission Line Driver, Dual 4-Input NAND	S				A*		* SSF
3893	Quad Futurebus XCVR	M				A*		* SSF
5074	Dual-D Synchronizing Flip/Flop (Metastable Immune)	M				A*		* SSF
5300	Fiber Optics Driver	S				A*		* SSF

Product Information

Logic Products (Cont.)

74	DESCRIPTION	COM	STD	LS	S	F	ALS	COMMENTS
BIPOLAR LOGIC (Cont.)								
5302	Fiber Optic Dual LED Driver					A*		* SSF
8960	Octal Latched Bidirectional Futurebus XCVR, INV, OC	M						
8961	Octal Latched Bidirectional Futurebus XCVR, NINV, OC	M				A*		* SSF
8962	9-Bit Latched Bidirectional Futurebus XCVR, INV, 3-State	M				A*		* SSF
8963	9-Bit Latched Bidirectional Futurebus XCVR, NINV, 3-State	M				A*		* SSF
8965	9-Bit BTL Address/Data Transceiver	M				A*		* SSF
8966	9-Bit BTL Address/Data Transceiver	M				A*		* SSF
30240	Octal Inverting 30Ω Transmission Line Driver, OC	M				A*		* SSF
30244	Octal 30Ω Transmission Line Driver, OC					A*		* SSF
30245	Octal Transceiver 30Ω Transmission Line Driver, OC	M				A*		* SSF
30640	Octal Transceiver 30Ω Transmission Line Driver INV, OC	M				A*		* SSF
50109	Dual J-K Synchronizing Flip/Flop (Metastable Immune)	M				A*		* SSF
50728	Sync. Cascaded Dual-D Flip/Flop (Metastable Immune)	M				A*		* SSF
50729	Synchronizing Dual-D Flip/Flop (Metastable Immune) with Edge-Triggered Set/Reset	M				A*		* SSF

DEVICE TYPE	DESCRIPTION	PACKAGE CODES	COMMENTS
8T/8200/82S00/9300/9600 Series			
82S50	Binary-to-Octal Decoder	N	Sole Source
82S62	8-Bit Parity Generator/Checker	N	
8274	10-Bit PISO Shift Register	N	
8890	Hex Inverter	N	
8891	Hex Inverter	N	
9316	4-Bit Binary Counter	N	
9322	Data Selector/Multiplexer	N	
9386	Quad Exclusive-NOR Gate	N	
9602	Dual Monostable Multivibrator	N	
8T09	Quad Bus Driver, 3-State	N	
8T13	Dual Line Driver	D, N	
8T20	Bidirectional Monostable Multivibrator	D, N	
8T23	Dual Line Driver for IBM 360/370 Interface (75123)	D, N	
8T24	Triple Line Receiver for IBM 360/370 Interface (75124)	D, N	
8T26A	Quad Bus Driver/Receiver	D, N	
8T34	Quad Bus Transceiver (DM8834)	N	
8T37	Hex Bus Receiver (DM8837)	N	
8T38	Quad Bus Transceiver (DM8838)	N	

Logic Products (Cont.)			
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**	**COMMENTS**
8T/8200/82S00/9300/9600 Series			
8T95	Hex Buffer	N	
8T96	Hex Inverter	N	
8T97	Hex Buffer	D, N	
8T98	Hex Inverter	D, N	
8T380	Quad Bus Receiver	D, N	

DEVICE TYPE	PIN #	DESCRIPTION	PACKAGE CODES
10K ECL SERIES			
10100	16	Quad 2-Input NOR Gate	F, N
10101	16	Quad OR/NOR Gate	F, N
10102	16	Quad 2-Input NOR Gate	D, F, N
10103	16	Quad 2-Input OR Gate	F, N
10104	16	Quad 2-Input AND Gate	D, F, N
10105	16	Triple 2-3-2-Input OR/NOR Gate	D, F, N
10106	16	Triple 4-3-3-Input NOR Gate	F, N
10107	16	Triple 2-Input Exclusive-OR/Exclusive-NOR Gate	D, F, N
10108	16	Dual 4-Input AND/NAND Gate	F, N
10109	16	Dual 4-5-Input OR/NOR Gate	D, F, N
10110	16	Dual 3-Input/3-Output OR Gate, Line Driver	F, N
10111	16	Dual 3-Input/3-Output NOR Gate, Line Driver	F, N
10113	16	Quad Exclusive-OR Gate with Enable	F, N
10114	16	Triple Differential Line Receiver	F, N
10115	16	Quad Differential Line Receiver	F, N
10116	16	Triple Differential Line Receiver	D, F, N
10117	16	Dual 2-Wide 2-3-Input OR-AND/OR-AND-INVERT Gate	D, F, N
10118	16	Dual 2-Wide 3-Input OR-AND Gate	F, N
10124	16	Quad TTL to ECL Translator	D, F, N
10125	16	Quad ECL to TTL Translator	D, F, N
10129	16	Quad TTL to ECL Translator	F, N
10130	16	Dual D-Type Latch	F, N
10131	16	Dual D-Type Master-Slave Flip-Flop	D, F, N
10132	16	Dual 2-Input Multiplexer with Latches	F, N
10133	16	Quad D-Type Latch with Output Enables	F, N
10134	16	Dual 2-Input Multiplexer with Latches	F, N
10135	16	Dual J-K Master-Slave Flip-Flop	F, N
10136	16	Universal Hexadecimal Counter	F, N
10137	16	Universal Decade Counter	F, N
10141	16	4-Bit Universal Shift Register	F, N
10149	16	256 x 4 PROM (20ns)	F
10149A	16	256 x 4 PROM (10ns)	F
10158	16	Quad 2-Input Multiplexer, NINV	F, N
10159	16	Quad 2-Input Multiplexer, INV	F, N
10160	16	12-Bit Parity Generator/Checker	F, N
10161	16	3-Bit Decoder with Enables (1-of-8 Outputs Low)	F, N
10162	16	3-Bit Decoder with Enables (1-of-8 Outputs High)	F, N

Product Information

Logic Products (Cont.)			
DEVICE TYPE	**PIN #**	**DESCRIPTION**	**PACKAGE CODES**
10K ECL SERIES (Cont.)			
10164	16	8-Input Multiplexer with Enable Input	D, F, N
10165	16	8-Input Priority Encoder	F, N
10171	16	Dual 2-Bit Decoder (1-of-4 Lines Low)	F, N
10172	16	Dual 2-Bit Decoder (1-of-4 Lines High)	F, N
10173	16	Quad 2-Input Multiplexer with Latched Outputs	F, N
10174	16	Dual 4-to-1 Multiplexer with Enable	F, N
10175	16	Quint D-Latch w/Common Reset	F, N
10176	16	Hex D-Type Master-Slave Flip-Flop	F, N
10179	16	Carry Look-Ahead Block-Arithmetic Functions	F, N
10180	16	Dual 2-Operand Adder/Subtractor	F, N
10181	24	4-Bit Arithmetic Logic Unit/Function Generator	F, N (600mil-wide DIP)
10188	16	Hex Buffer with Enable, NINV	D, F, N
10189	16	Hex Inverter with Enable	F, N
10192	16	Quad Differential Line Driver	F, N
10210	16	Dual 3-Input/3-Output (High Speed Version) OR Gate	F, N
10211	16	Dual 3-Input/3-Output (High Speed Version) NOR Gate	F, N
10216	16	Triple Differential OR/NOR Line Receiver (High Speed Version)	F, N
10231	16	Dual D-Type Master-Slave Flip-Flop (High Speed Version)	F, N
10H20EV8	24	ECL, PAL, 20 x 90 x 8	F
100K ECL SERIES			
100101	24	Triple 5-Input OR/NOR Gate	A, F, Y
100102	24	Quint 2-Input OR/NOR Gate	A, F, Y
100107	24	Quint Exclusive-OR/NOR Gate	A, F, Y
100112	24	Quad Driver	A, F, Y
100113	24	Quad Driver	A, F, Y
100114	24	Quint Differential Receiver	A, F, Y
100117	24	Triple OR-AND/NAND Gate	A, F, Y
100118	24	5-Wide OR-AND/NAND Gate	A, F, Y
100122	24	9-Bit Buffer	A, F, Y
100123	24	Hex Bus Driver	A, F, Y
100124	24	Hex TTL-to-ECL Translator	A, F, Y
100125	24	Hex ECL-to-TTL Translator	A, F, Y
100126	24	9-Bit Back Plane Driver	A, F, Y
100131	24	Triple D Flip-Flop (350MHz)	A, F, Y
100136	24	Counter/Shift Register	A, F, Y
100141	24	8-Bit Shift Register	A, F, Y
100149	16	256 x 4 PROM (20ns)	F
100149A	16	256 x 4 PROM (10ns)	F
100149B	16	256 x 4 PROM (5ns)	F
100150	24	Hex D-Latch	A, F, Y
100151	24	Hex D Flip-Flop	A, F, Y
100155	24	Quad Multiplexer/Latch	A, F, Y
100158	24	Shift Matrix	A, F, Y
100160	24	Dual Generator/8-Bit Comparator	A, F, Y
100163	24	Dual 8-Input Multiplexer	A, F, Y

Logic Products (Cont.)			
DEVICE TYPE	**PIN #**	**DESCRIPTION**	**PACKAGE CODES**
100K ECL SERIES (Cont.)			
100164	24	16-Input Multiplexer	A, F, Y
100165	24	Universal Priority Encoder	A, F, Y
100166	24	9-Bit Comparator	A, F, Y
100170	24	Universal Demultiplexer Decoder	A, F, Y
100171	24	Triple 4-Input Multiplexer	A, F, Y
100175	16	5-Bit Latched 100K/10K Translator	F
100179	24	Carry Look-Ahead Generator	A, F, Y
100180	24	6-Bit Adder	A, F, Y
100181	24	4-Bit ALU Binary/Decimal	A, F, Y
100231	24	Triple D Flip-Flop (400MHz)	A, F, Y
100255	16	TTL-100K Translating Transceiver	F
100790	28	9-Bit 25Ω Transceiver, 3-State	A
100982	28	6-Bit Registered Translating Transceiver, 25Ω	A
100984	28	4-Bit Registered Translating Transceiver, 25Ω	A
100990	28	9-Bit 25Ω Transceiver, 3-State	A
10020EV8	24	ECL PAL, 20 x 90 x 8	F, A

DEVICE TYPE	DESCRIPTION	PACKAGE CODES
LSI		
N2960	Error Detection/Correction Unit	N
N2964B	Dynamic Memory Controller	N
N3001	Microprogram Control Unit	N
N3002	Central Processing Unit	N
N74LS1801	Encoder/Decoder	F
N74LS1802	Serializer/Deserializer	A
N8X41	Auto Directional Bus Transceiver	N (600mil-wide)
N8X60	FIFO RAM Controller (4K)	F, N
N8X01A	CRC Generator Checker	N
N8X02A	Control Store Sequencer	N
N9401	CRC Generator Checker	N
N9403	Expandable FIFO Buffer Memory	N
74F410	Register Stack-16 x 4 RAM	N
74F764	DRAM Dual-Ported Controller w/Latch (100MHz)	A, N
74F764-1	DRAM Dual-Ported Controller w/Latch	A, N
74F765	DRAM Dual-Ported Controller (100MHz) without address input latch	A, N
74F765-1	DRAM Dual-Ported Controller without address input latch	A, N
74F1762	1MBit DRAM Address Controller	A, N
74F1763	1MBit Intelligent DRAM Controller	A, N
74F1764	1MBit DRAM Dual-Ported Controller (100MHz)	A, N
74F1764-1	1MBit DRAM Dual-Ported Controller (100MHz)	A, N
74F1765	1MBit DRAM Dual-Ported Controller (100MHz) without address input latch	A, N
74F1765-1	1MBit DRAM Dual-Ported Controller (100MHz)	A, N
74F1766	Burst Mode DRAM Controller	A, N
74ABT4764	4MBit Programmable DRAM Controller	D, N

COM = *Complexity*:
S = *Small Scale Integration (SSI)*
M = *Medium Scale Integration (MSI)*
L = *Large Scale Integration (LSI)*

Logic Products (Cont.)

DEVICE TYPE	FUNCTION	COM	PINS	PACKAGE CODES
4000 CMOS				
HEF4000B	Dual 3-Input NOR Gate and Inverter	S	14	D, N
HEF4001B	Quadruple 2-Input NOR Gate	S	14	D, N
HEF4001UB	Quadruple 2-Input NOR Gate, Unbuffered	S	14	D, N
HEF4002B	Dual 4-Input NOR Gate	S	14	D, N
HEF4006B	18-Stage Static Shift Register	M	14	D, N
HEF4007UB	Dual Complementary Pair and Inverter	S	14	D, N
HEF4008B	4-Bit Binary Full Adder	M	16	D, N
HEF4011B	Quadruple 2-Input NAND Gate	S	14	D, N
HEF4011UB	Quadruple 2-Input NAND Gate, Unbuffered	S	14	D, N
HEF4012B	Dual 4-Input NAND Gate	S	14	D, N
HEF4013B	Dual D-Type Flip/Flop	S	14	D, N
HEF4014B	8-Bit Static Shift Register	M	16	D, N
HEF4015B	Dual 4-Bit Static Shift Register	M	16	D, N
HEF4016B	Quadruple Bilateral Switches	S	14	D, N
HEF4017B	5-Stage Johnson Counter	M	16	D, N
HEF4018B	Presettable Divide-by-n Counter	M	16	D, N
HEF4019B	Quadruple 2-Input Multiplexer	M	16	D, N
HEF4020B	14-Stage Binary Counter	M	16	D, N
HEF4021B	8-Bit Static Shift Register	M	16	D, N
HEF4022B	4-Stage Divide-by-8 Johnson Counter	M	16	D, N
HEF4023B	Triple 3-Input NAND Gate	S	14	D, N
HEF4024B	7-Stage Binary Counter	M	14	D, N
HEF4025B	Triple 3-Input NOR Gate	S	14	D, N
HEF4027B	Dual J-K Flip/Flop	S	16	D, N
HEF4028B	1-to-10 Decoder	M	16	D, N
HEF4029B	Synchronous Up/Down-Binary/Decade Counter	M	16	D, N
HEF4030B	Quadruple Exclusive-OR Gate	S	14	D, N
HEF4031B	64-Stage Static Shift Register	L	16	D, N
HEF4035B	4-Bit Universal Shift Register	M	16	D, N
HEF4040B	12-Stage Binary Counter	M	16	D, N
HEF4041B	Quadruple True/Complement Buffer	S	14	D, N
HEF4042B	Quadruple D-Latch	M	16	D, N
HEF4043B	Quadruple R/S Latch with 3-State Outputs	M	16	D, N
HEF4044B	Quadruple R/S Latch with 3-State Outputs	M	16	D, N
HEF4046B	Phase-Locked Loop	M	16	D, N
HEF4047B	Monostable/Astable Multivibrator	M	14	D, N
HEF4049B	Hex Inverting Buffer	S	16	D, N
HEF4050B	Hex Non-Inverting Buffer	S	16	D, N
HEF4051B	8-Channel Analog Multiplexer/Demultiplexer	M	16	D, N
HEF4052B	Dual 4-Channel Analog Multiplexer/Demultiplexer	M	16	D, N
HEF4053B	Triple 2-Channel Analog Multiplexer/Demultiplexer	M	16	D, N
HEF4059B	Programmable Divide-by-n Counter	L	24	D, N
HEF4060B	14-Stage Ripple-Carry Binary Counter/Divider and Oscillator	M	16	D, N

Logic Products (Cont.)				
DEVICE TYPE	**FUNCTION**	**COM**	**PINS**	**PACKAGE CODES**
4000 CMOS (Cont.)				
HEF4066B	Quadruple Bilateral Switch	S	14	D, N
HEF4067B	16-Channel Analog Multiplexer/Demultiplexer	M	24	D, N
HEF4068B	8-Input NAND Gate	S	14	D, N
HEF4069UB	Hex Inverter	S	14	D, N
HEF4070B	Quadruple Exclusive-OR Gate	S	14	D, N
HEF4071B	Quadruple 2-Input OR Gate	S	14	D, N
HEF4072B	Dual 4-Input OR Gate	S	14	D, N
HEF4073B	Triple 3-Input AND Gate	S	14	D, N
HEF4075B	Triple 3-Input OR Gate	S	14	D, N
HEF4076B	Quadruple D-Type Register with 3-State Outputs	M	16	D, N
HEF4077B	Quadruple Exclusive-NOR Gate	S	14	D, N
HEF4078B	8-Input NOR Gate	S	14	D, N
HEF4081B	Quadruple 2-Input AND Gate	S	14	D, N
HEF4082B	Dual 4-Input AND Gate	S	14	D, N
HEF4085B	Dual 2-Wide 2-Input AND-OR-INVERT Gate	S	14	D, N
HEF4093B	Quadruple 2-Input NAND Schmitt Trigger	S	14	D, N
HEF4094B	8-Stage Shift-and-Store Bus Register	M	16	D, N
HEF4104B	Quadruple Low-to-High Voltage Translator	M	16	D, N
HEF4502B	Strobed Hex Inverter/Buffer	S	16	D, N
HEF4508B	Dual 4-Bit Latch	M	24	D, N
HEF4510B	BCD Up/Down Counter	M	16	D, N
HEF4511B	BCD to 7-Segment Latch/Decoder/Driver	M	16	D, N
HEF4512B	8-Input Multiplexer with 3-State Output	M	16	D, N
HEF4514B	1-to-16 Decoder/Demultiplexer with Input Latches	M	24	D, N
HEF4515B	1-to-16 Decoder/Demultiplexer with Input Latches	M	24	D, N
HEF4516B	Binary Up/Down Counter	M	16	D, N
HEF4517B	Dual 64-Bit Static Shift Register	L	16	D, N
HEF4518B	Dual BCD Counter	M	16	D, N
HEF4519B	Quadruple 2-Input Multiplexer	M	16	D, N
HEF4520B	Dual Binary Counter	M	16	D, N
HEF4521B	24-Stage Frequency Divider	M	16	D, N
HEF4522B	Programmable 4-Bit BCD Down Counter	M	16	D, N
HEF4526B	Programmable 4-Bit Binary Down Counter	M	16	D, N
HEF4527B	BCD Rate Multiplier	M	16	D, N
HEF4528B	Dual Monostable Multivibrator	M	16	D, N
HEF4531B	13-Input Parity Generator/Checker	M	16	D, N
HEF4532B	8-Input Priority Encoder	M	16	D, N
HEF4534B	Real-Time 5-Decade Counter	L	24	D, N
HEF4538B	Dual Precision Monostable Multivibrator	M	16	D, N
HEF4539B	Dual 4-Input Multiplexer	M	16	D, N
HEF4541B	Programmable Timer	M	14	D, N
HEF4543B	BCD to 7-Segment Latch/Decoder/Driver	M	16	D, N
HEF4555B	Dual 1-of-4 Decoder/ Demultiplexer	M	16	D, N
HEF4556B	Dual 1-of-4 Decoder/ Demultiplexer	M	16	D, N
HEF4557B	1-to-64 Bit Variable Length Shift Register	L	16	D, N
HEF4585B	4-Bit Magnitude Comparator	M	16	D, N
HEF4720B;V	256-Bit, 1-Bit per Word RAM	L	16	N

Logic Products (Cont.)				
DEVICE TYPE	**FUNCTION**	**COM**	**PINS**	**PACKAGE CODES**
4000 CMOS (Cont.)				
HEF4724B	8-Bit Addressable Latch	M	16	D, N
HEF4731B;V	Quadruple 64-Bit Static Shift Register	L	14	N
HEF4737B;V	Quadruple Static Decade Counter	L	18	N
HEF4738V	IEC/IEEE Bus Interface	L	40	N
HEF40097B	3-State Hex NINV Buffer	S	16	D, N
HEF40098B	3-State Hex INV Buffer	S	16	D, N
HEF40106B	Hex Schmitt Trigger	S	14	D, N
HEF40160B	4-Bit Synchronous Decade Counter; Asynchronous Reset	M	16	D, N
HEF40161B	4-Bit Synchronous Binary Counter; Asynchronous Reset	M	16	D, N
HEF40162B	4-Bit Synchronous Decade Counter; Synchronous Reset	M	16	D, N
HEF40163B	4-Bit Synchronous Binary Counter; Synchronous Reset	M	16	D, N
HEF40174B	Hex D-Type Flip/Flop	M	16	D, N
HEF40175B	Quadruple D-Type Flip/Flop	M	16	D, N
HEF40192B	4-Bit Up/Down Decade Counter	M	16	D, N
HEF40193B	4-Bit Up/Down Binary Counter	M	16	D, N
HEF40194B	4-Bit Bidirectional Universal Shift Register	M	16	D, N
HEF40195B	4-Bit Universal Shift Register	M	16	D, N
HEF40240B	Octal Inverting Buffers w/3-State Outputs	M	20	D, N
HEF40244B	Octal Buffers w/3-State Outputs	M	20	D, N
HEF40245B	Octal Bus Transceiver w/3-State Outputs	M	20	D, N
HEF40373B	Octal Transparent Latch w/3-State Outputs	M	20	D, N
HEF40374B	Octal D-Type Flip/Flop w/3-State Outputs	M	20	D, N

HC = CMOS compatible switching levels
HCT = LS compatible switching levels
Most HC/T MOS now available with burn-in

DEVICE TYPE	PIN #	DESCRIPTION	PACKAGE CODES
HIGH-SPEED CMOS			
HC/HCT00	14	Quad 2-Input NAND Gate	D, N
HC/HCT02	14	Quad 2-Input NOR Gate	D, N
HC/HCT03	14	Quad 2-Input NAND Gate, Open-Drain	D, N
HC/HCT04	14	Hex Inverter	D, N
HCU04	14	Hex Inverter	D, N
HC/HCT08	14	Quad 2-Input AND Gate	D, N
HC/HCT10	14	Triple 3-Input NAND Gate	D, N
HC/HCT11	14	Triple 3-Input AND Gate	D, N
HC/HCT14	14	Hex Inverting Schmitt Trigger	D, N
HC/HCT20	14	Dual 4-Input NAND Gate	D, N
HC/HCT21	14	Dual 4-Input AND Gate	D, N
HC/HCT27	14	Triple 3-Input NOR Gate	D, N
HC/HCT30	14	8-Input NAND Gate	D, N
HC/HCT32	14	Quad 2-Input OR Gate	D, N
HC/HCT42	14	BCD-to-Decimal Decoder	D, N
HC58	14	Dual 4-Input AND-OR Gate	D, N
HC/HCT73	14	Dual J-K Flip/Flop w/Clear; Negative-Edge Trigger	D, N

* Types with bus driver output stage

Logic Products (Cont.)			
DEVICE TYPE	**PIN #**	**DESCRIPTION**	**PACKAGE CODES**
HIGH-SPEED CMOS (Cont.)			
HC/HCT74	14	Dual D-Type Flip/Flop w/Set and Clear; Positive-Edge Trigger	D, N
HC/HCT75	16	4-Bit Bi-stable Latch	D, N
HC/HCT85	16	4-Bit Magnitude Comparator	D, N
HC/HCT86	14	Quad 2-Input Exclusive-OR Gate	D, N
HC/HCT93	14	4-Stage Binary Ripple Counter	D, N
HC/HCT107	14	Dual J-K Flip/Flop w/Clear; Negative-Edge Trigger	D, N
HC/HCT109	16	Dual J-K Flip/Flop w/Set and Clear; Positive-Edge Trigger	D, N
HC/HCT112	16	Dual J-K Flip/Flop w/Set and Clear; Negative-Edge Trigger	D, N
HC/HCT123	16	Dual Retriggerable Monostable Multivibrator	D, N
HC/HCT125*	14	Quad 3-State Non-Inverting Buffer	D, N
HC/HCT126*	14	Quad 3-State Non-Inverting Buffer	D, N
HC/HCT132	14	Quad 2-Input NAND Schmitt Trigger	D, N
HC/HCT137	16	3-to-8 Line Inverting Decoder/Multiplexer w/Address Latches	D, N
HC/HCT138	16	1-of-8 Decoder/Demultiplexer	D, N
HC/HCT139	16	Dual 2-to-4 Decoder/Demultiplexer	D, N
HC/HCT147	16	10-to-4 Line Priority Encoder	D, N
HC/HCT151	16	8-Input Multiplexer	D, N
HC/HCT153	16	Dual 4-Input Multiplexer	D, N
HC/HCT154	24	4-to-16 Decoder/Demultiplexer, 600mil-wide DIP	D, N
HC/HCT157	16	Quad 2-Input Multiplexer	D, N
HC/HCT158	16	Quad 2-Input Multiplexer, INV	D, N
HC/HCT160	16	Synch. BCD Decade Counter; Asynch. Clear	D, N
HC/HCT161	16	Synch. 4-Bit Binary Counter; Asynch. Clear	D, N
HC/HCT162	16	Synch. BCD Decade Counter; Synch. Clear	D, N
HC/HCT163	16	Synch. 4-Bit Binary Counter; Synch. Clear	D, N
HC/HCT164	14	8-Bit Serial-In/Parallel-Out Shift Register	D, N
HC/HCT165	16	8-Bit Parallel-In/Serial-Out Shift Register	D, N
HC/HCT166	16	8-Bit Parallel/Serial-In/Serial-Out Shift Register	D, N
HC/HCT173*	16	Quad D-Type Flip/Flop; Positive-Edge Trigger, 3-State	D, N
HC/HCT174	16	Hex D-Type Flip/Flop w/Clear; Positive-Edge Trigger	D, N
HC/HCT175	16	Quad D-Type Flip/Flop w/Clear; Positive-Edge Trigger	D, N
HC/HCT181	24	4-Bit Arithmetic Logic Unit	D, N
HC/HCT182	16	Carry Look-Ahead Generator	D, N
HC/HCT190	16	Presettable BCD Decade Up/Down Counter	D, N
HC/HCT191	16	Presettable 4-Bit Binary Up/Down Counter	D, N
HC/HCT192	16	Presettable BCD Decade Up/Down Counter	D, N
HC/HCT193	16	Presettable 4-Bit Binary Up/Down Counter	D, N
HC/HCT194	16	4-Bit Bidirectional Universal Shift Register	D, N
HC/HCT195	16	4-Bit Parallel Access Shift Register	D, N
HC/HCT221	16	Dual Monostable Multivibrator	D, N
HC/HCT237	16	1-to-8 Line Decoder/Multiplexer	D, N
HC/HCT238	16	1-of-8 Decoder/Demultiplexer w/Clear	D, N
HC/HCT240*	20	Octal Inverting Buffer, 3-State	D, N
HC/HCT241*	20	Octal Buffer, 3-State	D, N
HC/HCT242*	14	Quad Inverting Transceiver, 3-State	D, N
HC/HCT243*	14	Quad Transceiver, 3-State	D, N
* Types with bus driver output stage			

Logic Products (Cont.)			
DEVICE TYPE	**PIN #**	**DESCRIPTION**	**PACKAGE CODES**
HIGH-SPEED CMOS (Cont.)			
HC/HCT244*	20	Octal Buffer, 3-State	D, N
HC/HCT245*	20	Octal Transceiver, 3-State	D, N
HC/HCT251	16	8-Input Multiplexer, 3-State	D, N
HC/HCT253*	16	Dual 4-Input Multiplexer, 3-State	D, N
HC/HCT257*	16	Quad 2-Input Multiplexer, 3-State	D, N
HC/HCT258	16	Quad 2-to-1 Date Selector/Multiplexer, 3-State	D, N
HC/HCT259	16	8-Bit Addressable Latch	D, N
HC266		See HC7266	D, N
HC/HCT273*	20	Octal D-Type Flip/Flop w/Clear; Positive-Edge Trigger	D, N
HC/HCT280	14	9-Bit Odd/Even Parity Generator/Checker	D, N
HC/HCT283	16	4-Bit Binary Full Adder w/Fast Carry	D, N
HC/HCT297	16	Digital Phase-Locked Loop Filter	D, N
HC/HCT299*	16	8-Bit Universal Shift Register, 3-State	D, N
HC/HCT354*	20	8-Input Multiplexer/Register, 3-State	D, N
HC/HCT356*	20	8-Input Multiplexer/Register, 3-State	D, N
HC/HCT365*	16	Hex Buffer, 3-State	D, N
HC/HCT366*	16	Hex Inverting Buffer, 3-State	D, N
HC/HCT367*	16	Hex Buffer, 3-State	D, N
HC/HCT368*	16	Hex Inverting Buffer, 3-State	D, N
HC/HCT373*	20	Octal Transparent Latch, 3-State	D, N
HC/HCT374*	20	Octal D-Type Flip/Flop; Positive-Edge Trigger, 3-State	D, N
HC/HCT377	20	Octal D-Type Flip/Flop w/Data Enable; Positive-Edge Trigger	D, N
HC/HCT390	16	Dual Decade Ripple Counter	D, N
HC/HCT393	14	Dual 4-Bit Binary Ripple Counter	D, N
HC/HCT423	16	Dual Retriggerable Monostable Multivibrator	D, N
HC/HCT533*	20	Octal Transparent Inverting Latch, 3-State	D, N
HC/HCT534*	20	Octal D-Type Inverting Flip/Flop; Positive-Edge Trigger, 3-State	D, N
HC/HCT540*	20	Octal Inverting Buffer, 3-State	D, N
HC/HCT541*	20	Octal Buffer, 3-State	D, N
HC/HCT563*	20	Octal Transparent Inverting Latch, 3-State	D, N
HC/HCT564*	20	Octal D-Type Inverting Flip/Flop; Positive-Edge Trigger, 3-State	D, N
HC/HCT573*	20	Octal Transparent Latch, 3-State	D, N
HC/HCT574*	20	Octal D-Type Flip/Flop; Positive-Edge Trigger, 3-State	D, N
HC/HCT583	16	BCD Adder	D, N
HC/HCT595	16	8-Bit Serial-In/Serial or Parallel-Out Shift Register w/ Output Latches (3-State)	D, N
HC/HCT597	16	8-Bit Shift Register w/Input Latches	D, N
HC/HCT640*	20	Octal Inverting Transceiver, 3-State	D, N
HC/HCT643*	20	Octal True/Inverting Transceiver, 3-State	D, N
HC/HCT646*	24	Octal Transceiver/Register, 3-State	D, N
HC/HCT648*	24	Octal Inverting Transceiver/Register, 3-State	D, N
HC/HCT670*	16	4 x 4 Register File, 3-State	D, N
HC/HCT688	20	8-Bit Magnitude Comparator	D, N
HC/HCT4002	14	Dual 4-Input NOR Gate	D, N
HC/HCT4015	16	Dual 4-Bit Serial-In/Parallel-Out Shift Register	D, N
HC/HCT4016	14	Quad Bilateral Switch	D, N

* Types with bus driver output stage

Logic Products (Cont.)			
DEVICE TYPE	**PIN #**	**DESCRIPTION**	**PACKAGE CODES**
HIGH-SPEED CMOS (Cont.)			
HC/HCT4017	16	Johnson Decade Counter w/10 Decoded Outputs	D, N
HC/HCT4020	16	14-Stage Binary Counter	D, N
HC/HCT4024	14	7-Stage Binary Counter	D, N
HC/HCT4040	16	12-Stage Binary Counter	D, N
HC/HCT4046A	16	Phase-Locked Loop w/VCO	D, N
HC4049	16	Hex Inverting High-to-Low Level Filter	D, N
HC4050	16	Hex High-to-Low Level Shifter	D, N
HC/HCT4051	16	8-Channel Analog Multiplexer/Demultiplexer	D, N
HC/HCT4052	16	Dual 4-Channel Analog Multiplexer/Demultiplexer	D, N
HC/HCT4053	16	Triple 2-Channel Analog Multiplexer/Demultiplexer	D, N
HC/HCT4059	24	Programmable Divide-by-n Counter	D, N
HC/HCT4060	16	14-Stage Ripple-Carry Binary Counter	D, N
HC/HCT4066	14	Quad Bilateral Switch	D, N
HC/HCT4067	24	16-Channel Analog Multiplexer/Demultiplexer	D, N
HC/HCT4075	14	Triple 3-Input OR Gate	D, N
HC/HCT4094	16	8-Stage Shift-and-Store Bus Register	D, N
HC/HCT4316	16	Quad Bilateral Switch	D, N
HC/HCT4351	20	8-Channel Analog Multiplexer/Demultiplexer w/Latch	D, N
HC/HCT4352	20	Dual 4-Channel Analog Multiplexer/Demultiplexer w/Latch	D, N
HC/HCT4353	20	Triple 2-Channel Analog Multiplexer/Demultiplexer w/Latch	D, N
HC/HCT4510	16	BCD Up/Down Counter	D, N
HC/HCT4511	16	BCD to 7-Segment Latch/Decoder/Driver	D, N
HC/HCT4514	24	1-of-16 Decoder/Demultiplexer w/Input Latches	D, N
HC/HCT4515	24	1-of-16 Decoder/Demultiplexer w/Input Latches	D, N
HC/HCT4516	16	Binary Up/Down Counter	D, N
HC/HCT4518	16	Dual BCD Counter	D, N
HC/HCT4520	16	Dual 4-Bit Binary Counter	D, N
HC/HCT4538	16	Dual Retriggerable Precision Monostable Multivibrator	D, N
HC/HCT4543	16	BCD to 7-Segment Latch/Decoder/Driver for LCDs	D, N
HC/HCT5555	16	Programmable Delay Timer with Oscillator	D, N
HC/HCT6323A	8	Programmable Ripple Counter with Oscillator; 3-State)	D
HC/HCT7030	28	9-Bit x 16-Word Exp. FIFO Register	D, N
HC/HCT7046A	16	Phase-Locked Loop w/Lock Detector	D, N
HC/HCT7080	20	16-Bit Odd/Even Parity Generator/Checker	D, N
HCT7174	16	Hex D-Type Flip/Flop with Reset, Positive Edge-Triggered, Open Drain Outputs	D, N
HC/HCT7245*	20	Octal Bus Schmitt Trigger Transceiver; 3-State	D, N
HC7266	14	Quad 2-Input Exclusive-NOR Gate	D, N
HCT7273	20	Octal D-Type Flip/Flop with Reset, Positive Edge-Trigered Open Drain Outputs	D, N
HC/HCT7403	16	4-Bit x 64-Word FIFO Register; 3-State	D, N
HCHCT7404	20	5-Bit x 64-Word FIFO Register; 3-State	D, N
HC/HCT7540	20	Octal Schmitt Trigger Inverting Buffer, 3-State	D, N
HC/HCT7541	20	Octal Schmitt Trigger Buffer, 3-State	D, N
HC/HCT7597	16	8-Bit Shift Register w/Input Latches	D, N
HC/HCT7731	16	Quad 64-Bit Static Shift Register	D, N

* Types with bus driver output stage

Product Information

Logic Products (Cont.)

DEVICE TYPE	PIN #	DESCRIPTION	PACKAGE CODES
HIGH-SPEED CMOS (Cont.)			
HC/HCT9014	20	Nine Wide Schmitt Trigger Inverting Buffer	D, N
HC/HCT9015	20	Nine Wide Schmitt Trigger Buffer	D, N
HC/HCT9114	20	Nine Wide Schmitt Trigger Buffer, Open-Drain	D, N
HC/HCT9115	20	Nine Wide Schmitt Trigger Buffer, Open-Drain	D, N
HC/HCT40102	16	Presettable 2-Decade BCD Down Counter	D, N
HC/HCT40103	16	8-Bit Binary Down Counter	D, N
HC/HCT40104*	16	4-Bit Bidirectional Universal Shift Register	D, N
HC/HCT40105	16	4-Bit x 16-Word FIFO Register	D, N

* Types with bus driver output stage

Memory Products

DEVICE	COMPLEXITY	PACKAGE CODES	t_{AA}/ns
CMOS EPROMs			
27HC641-45	8K × 8	FA, N, A	45
27HC641-55	8K × 8	FA, N, A	55
27C64A-12	8K × 8	FA, N, A	120
27C64A-15	8K × 8	FA, N, A	150
27C64AI15	8K × 8	FA, N, A	150
27C64AA15	8K × 8	FA, N, A	150
27C64A-17	8K × 8	FA, N, A	170
27C64A-20	8K × 8	FA, N, A	200
27C64AI20	8K × 8	FA, N, A	200
27C64AA20	8K × 8	FA, N, A	200
27C256-90	32K × 8	FA, N, A, D	90
27C256-12	32K × 8	FA, N, A, D	120
27C256I12	32K × 8	FA, N, A, D	120
27C256-15	32K × 8	FA, N, A, D	150
27C256I15	32K × 8	FA, N, A, D	150
27C256-20	32K × 8	FA, N, A, D	200
27C256I20	32K × 8	FA, N, A, D	200
27C512-90	64K × 8	FA, N, A, D	90
27C512-12	64K × 8	FA, N, A, D	120
27C512I12	64K × 8	FA, N, A, D	120
27C512-15	64K × 8	FA, N, A, D	150
27C512I15	64K × 8	FA, N, A, D	150
27C512-17	64K × 8	FA, N, A, D	170
27C512-20	64K × 8	FA, N, A, D	200
27C512I20	64K × 8	FA, N, A, D	200
27C010-12	128K × 8	FA, N, A	120
27C010-15	128K × 8	FA, N, A	150
27C010-20	128K × 8	FA, N, A	200
27C210-12	64K × 8	FA, N, A	120

Memory Products (Cont.)			
DEVICE	**COMPLEXITY**	**PACKAGE CODES**	**t_{AA}/ns**
CMOS EPROMs (Cont.)			
27C210-15	64K × 8	FA, N, A	150
27C210-20	64K × 8	FA, N, A	200

DEVICE	COMPLEXITY	PACKAGE CODES	E/W CYCLE
MOS EEPROMs			
PCA8582B	256 × 8	D, N	500K
PCD8582D	256 × 8	D, N	10K
PCF8581	128 × 8	D, N	10K
PCF8581C	128 × 8	D, N	10K
PCF8582C	256 × 8	D, N	500K
PCF8582E	256 × 8	D, N	100K

DEVICE	COMPLEXITY	PACKAGE CODES	t_{AA}/ns
BIPOLAR PROMs			
82S23	32 × 8	N, F	50
82S23A	32 × 8	N, F, A, D	25
82S123	32 × 8	N, F	50
82S123A	32 × 8	N, F, A, D	25
82S126	256 × 4	N, F	50
82S126A	256 × 4	N, F, A, D	30
82S129	256 × 4	N, F	50
82S129A	256 × 4	N, F, A, D	27
10149	256 × 4	F	20
10149A	256 × 4	F	10
100149	256 × 4	F	20
100149A	256 × 4	F	10
82S130	512 × 4	N, F	50
82S130A	512 × 4	N, F, A, D	30
82S131	512 × 4	N, F	50
82S131A	512 × 4	N, F, A, D	30
82S135	256 × 8	N, F, A, D	45
82LS135	256 × 8	N, F, A, D	100
82S137	1024 × 4	N, F	60
82S137A	1024 × 4	N, F, D	45
82S137B	1024 × 4	N, F, D	35
82S141	512 × 8	N, F	60
82S141A	512 × 8	N, N3, A	45
82S147	512 × 8	N, F	60
82S147A	512 × 8	N, F	45
82S147B	512 × 8	N, F	25
82S181	1024 × 8	N, F	70
82S181A	1024 × 8	N, F, N3, A	55
82S181C	1024 × 8	N, F, N3, A	35
82S183	1024 × 8	N, F	60

NOTE: All t_{AA} values are maximums

Product Information

Memory Products (Cont.)			
DEVICE	**COMPLEXITY**	**PACKAGE CODES**	**t_{AA}/ns**
BIPOLAR PROMs (Cont.)			
82S185	2048 x 4	N, F	100
82S185A	2048 x 4	N, F, D	50
82S185B	2048 x 4	N, F, D	45
82S191	2048 x 8	N, F	80
82S191A	2048 x 8	N, N3, F, F3, A	55
82S191C	2048 x 8	N, N3, F, F3, A	35
82HS195	4096 x 4	N, F	45
82HS195A	4096 x 4	N, F, A	35
82HS195B	4096 x 4	N, F, A	25
82HS321	4096 x 8	N, F	45
82HS321A	4096 x 8	N, F, A	35
82HS321B	4096 x 8	N, F, A	30
82HS641	8192 x 8	N, F	55
82HS641A	8192 x 8	N, F	45
82HS641B	8192 x 8	N, F	35
NOTE: All t_{AA} values are maximums			

DEVICE	FUNCTION	t_{AA}/ns	PKG. CODES	PINS	COMMENTS
RAM					
3101A	64-Bit RAM (16 x 4) OC	35	N	16	
N74S189	64-Bit RAM (16 x 4) TS	35	N	16	
N82S25	64-Bit RAM (16 x 4) OC	50	N	16	
N82S16	256-Bit RAM (256 x 1) TS	50	N	16	
N74S301	256-Bit RAM (256 x 1) OC	50	N	16	
N82LS16	256-Bit RAM (256 x 1) TS	40	N	16	
N74LS301	256-Bit RAM (256 x 1) OC	40	N	16	
N82S09	576-Bit RAM (64 x 9) OC	45	N	28	
N82S09A	576-Bit RAM (64 x 9) OC	35	N	28	
N82S19	576-Bit RAM (64 x 9) OC	35	N	28	
N82S212	2304-Bit RAM (256 x 9) TS	45	N	22	600mil-wide DIP
N82S212A	2304-Bit RAM (256 x 9) TS	35	N	22	600mil-wide DIP
N8X350	2048-Bit RAM (256 x 8) TS	N/A	N	22	
74F189A	64-Bit RAM (16 x 4) TS	15	D/N	16	
74F219A	64-Bit RAM	15	D/N	16	
74F225	16 x 5 FIFO	N/A	N	20	
74S225	16 x 5 FIFO	N/A	N	20	

Product Information

Microcontroller Products			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
80XX NMOS SERIES			
SCN8031	ROMless 8-Bit MCU	40-pin Plastic DIP (Com temp, 12MHz)	SCN8031HCCN40
		44-pin PLCC (Com temp, 12MHz)	SCN8031HCCA44
		40-pin Plastic DIP (Ext temp, 12MHz)	SCN8031HACN40
		44-pin PLCC (Ext temp, 12MHz)	SCN8031HACA44
		40-pin Plastic DIP (Com temp, 15MHz)	SCN8031HCFN40
		44-pin PLCC (Com temp, 15MHz)	SCN8031HCFA44
		40-pin Plastic DIP (Ext temp, 15MHz)	SCN8031HAFN40
		44-pin PLCC (Ext temp, 15MHz)	SCN8031HAFA44
SCN8032	ROMless 8-Bit MCU	40-pin Plastic DIP (Com temp, 12MHz)	SCN8032HCCN40
		44-pin PLCC (Com temp, 12MHz)	SCN8032HCCA44
		40-pin Plastic DIP (Ext temp, 12MHz)	SCN8032ACN40
		44-pin PLCC (Ext temp, 12MHz)	SCN8032ACA44
		40-pin Plastic DIP (Com temp, 15MHz)	SCN8032HCFN40
		44-pin PLCC (Com temp, 15MHz)	SCN8032HCFA44
		40-pin Plastic DIP (Ext temp, 15MHz)	SCN8032HAFN40
		44-pin PLCC (Ext temp, 15MHz)	SCN8032HAFA44
SCN8039	ROMless 8-Bit MCU	40-pin Plastic DIP (Com temp. 11MHz)	SCN8039HCBN40
		44-pin PLCC (Com temp. 11MHz)	SCN8039HCBA44
		40-pin Plastic DIP (Ext temp, 11MHz	SCN8039HABN40
		44-pin PLCC (Ext temp, 11MHz)	SCN8039HABA44
SCN8040	ROMless 8-Bit MCU	40-pin Plastic DIP (Com temp. 11MHz)	SCN8040HCBN40
		44-pin PLCC (Com temp. 11MHz)	SCN8040HCBA44
SCN8049	8-Bit MCU	Com & Ext temp, 11MHz	ROM coded-CP# upon verification
SCN8050	8-Bit MCU	Com temp, 11MHz	ROM coded-CP# upon verification
SCN8051	8-Bit MCU	Com & Ext temp, 12 & 15MHz	CP# upon verification
SCN8052	8-Bit MCU	Com & Ext temp, 12 & 15MHz	CP# upon verification
80CXX CMOS SERIES			
SC80C31B	ROMless CMOS 8-Bit MCU	40-pin Plastic DIP (Com temp, 12MHz)	SC80C31BCCN40
		44-pin PLCC (Com temp, 12MHz)	SC80C31BCCA44
		44-pin QFP (Com temp, 12MHz)	SC80C31BCCB44
		40-pin Plastic DIP (Ext temp, 12MHz)	SC80C31BACN40
		44-pin PLCC (Ext temp, 12MHz)	SC80C31BACA44
		40-pin Plastic DIP (Com temp, 16MHz)	SC80C31BCGN40
		44-pin PLCC (Com temp, 16MHz)	SC80C31BCGA44
		44-pin QFP (Com temp, 16MHz)	SC80C31BCGB44
		40-pin Plastic DIP (Ext temp, 16MHz)	SC80C31BAGN40
		44-pin PLCC (Ext temp, 16MHz)	SC80C31BAGA44
		40-pin Plastic DIP (Com temp, 24MHz)	SC80C31BCPN40
		44-pin PLCC (Com temp, 24MHz)	SC80C31BCPA44
		44-pin QFP (Com temp, 24MHz)	SC80C31BCPB44
		40-pin Plastic DIP (Ext temp, 24MHz)	SC80C31BAPN40
		44-pin PLCC (Ext temp, 24MHz)	SC80C31BAPA44
		40-pin Plastic DIP (Com temp, 33MHz)	SC80C31BCYN40

Microcontroller Products (Cont.)			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
80CXX CMOS SERIES (Cont.)			
SC80C31B (Cont.)		44-pin PLCC (Com temp, 33MHz)	SC80C31BCYA44
		44-pin QFP (Com temp, 33MHz)	SC80C31BCYB44
		40-pin Plastic DIP (Ext temp, 33MHz)	SC80C31BAYN40
		44-pin PLCC (Ext temp, 33MHz)	SC80C31BAYA44
SC80C51B	8-Bit CMOS MCU, MASK ROM version	Speed, pkg. and temp same as 80C31	ROM coded-CV# upon verification
SC87C51	8-Bit CMOS MCU; /OTP EPROM version of /OTP SC80C51	40-pin Plastic DIP (Com temp, 12MHz)	SC87C51CCN40
		44-pin PLCC (Com temp, 12MHz)	SC87C51CCA44
		44-pin QFP (Com temp, 12MHz)	SC87C51CCB44
		40-pin CerDIP (Com temp, 12MHz)	SC87C51CCF40
		44-pin CLCC (Com temp, 12MHz)	SC87C51CCL44
	OTP	40-pin Plastic DIP (Ext temp, 12MHz)	SC87C51ACN40
	OTP	44-pin PLCC (Ext temp, 12MHz)	SC87C51ACA44
		40-pin Ceramic DIP (Ext temp, 12MHz)	SC87C51ACF40
		44-pin CLCC (Ext temp, 12MHz)	SC87C51ACL44
	OTP	40-pin Plastic DIP (Com temp, 16MHz)	SC87C51CGN40
	OTP	44-pin PLCC (Com temp, 3.5-16MHz)	SC87C51CGA44
	OTP	44-pin QFP (Com temp, 16MHz)	SC87C51CGB44
		40-pin CerDIP (Com temp, 16MHz)	SC87C51CGF40
		44-pin CLCC (Com temp, 16MHz)	SC87C51CGK44
	OTP	40-pin Plastic DIP (Ext temp, 16MHz)	SC87C51AGN40
	OTP	44-pin PLCC (Ext temp, 16MHz)	SC87C51AGA44
		40-pin Ceramic DIP (Ext temp, 16MHz)	SC87C51AGF40
		44-pin CLCC (Ext temp, 16MHz)	SC87C51AGK44
	OTP	40-pin Plastic DIP (Com temp, 24MHz)	SC87C51CPN40
	OTP	44-pin PLCC (Com temp, 24MHz)	SC87C51CPA44
	OTP	44-pin QFP (Com temp, 24MHz)	SC87C51CPB44
		40-pin CerDIP UV (Com temp, 24MHz)	SC87C51CPF40
		44-pin CLCC UV (Com temp, 24MHz)	SC87C51CPK44
	OTP	40-pin Plastic DIP (Ext temp, 24MHz)	SC87C51APN40
	OTP	44-pin PLCC (Ext temp, 24MHz)	SC87C51APA44
		40-pin CerDIP UV (Ext temp 24MHz)	SC87C51APF40
		44-pin CLCC UV (Ext temp, 24MHz)	SC87C51APK44
P80C32	8-Bit MCU with 3 Timers, 256 bytes RAM (ROM-less version)	Die unscribed wafer (Com temp, 16MHz)	P80C32EBP CU
		40-pin Plastic DIP (Com temp, 16MHz)	P80C32EBP N
		44-pin PLCC (Com temp, 16MHz)	P80C32EBA A
		44-pin QFP (Com temp, 16MHz)	P80C32EBB B
		40-pin Plastic DIP (Ext temp, 16MHz)	P80C32EFP N
		44-pin PLCC (Ext temp, 16MHz)	P80C32EFA A
		44-pin QFP (Ext temp, 16MHz)	P80C32EFB B
		40-pin Plastic DIP (Com temp, 20MHz)	P80C32GBP N
		44-pin PLCC (Com temp, 20MHz)	P80C32GBA A

Microcontroller Products (Cont.)			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
80CXX CMOS SERIES (Cont.)			
P80C32 (Cont.)		44-pin QFP (Com temp, 20MHz) 40-pin Plastic DIP (Ext temp, 20MHz) 44-pin PLCC (Ext temp, 20MHz) 44-pin QFP (Ext temp, 20MHz)	P80C32GBB B P80C32GFP N P80C32GFA A P80C32GFB B
P80C52	8-Bit MCU with 3 timers, 256 bytes RAM, 8K ROM. Mask ROM Version	Speed, pkg., and temp. same as 80C32	ROM coded-CV# upon verification
P87C52	8-Bit CMOS MCU; 8K; EPROM	40-pin Plastic DIP, (Com temp, 12MHz) 40-pin CerDIP UV (Com temp, 16MHz) 44-pin PLCC (Com temp, 16MHz) 44-pin CLCC UV (Com temp, 16MHz) 40-pin Plastic DIP (Ext temp, 16MHz) 40-pin CerDIP UV (Ext temp, 16MHz) 44-pin PLCC (Ext temp, 16MHz) 44-pin CLCC UV (Ext temp, 16MHz) 40-pin Plastic DIP (Com temp, 20MHz) 40-pin CerDIP UV (Com temp, 20MHz) 44-pin PLCC (Com temp, 20MHz) 44-pin CLCC UV (Com temp, 20MHz) 40-pin Plastic DIP (Ext temp, 20MHz) 40-pin CerDIP UV(Ext temp, 20MHz) 44-pin PLCC (Ext temp, 20MHz) 44-pin CLCC UV (Ext temp, 20MHz) 44-pin Quad Flatpack (Com temp, 16MHz) 44-pin Quad Flatpack ((Ext temp, 16MHz) 44-pin Quad Flatpack (Com temp, 20MHz) 44-pin Quad Flatpack ((Ext temp, 20MHz)	P87C52EBPN P87C52EBFFA P87C52EBAA P87C52BLKA P87C52EFPN P87C52EFFFA P87C52EFAA P87C52EFLKA P87C52GMPN P87C52GBFFA P87C52GBAA P87C52GBLKA P87C52GFPN P87C52GFFFA P87C52GFAA P87C52GFLKA P87C52EBBB P87C52EFBB P87C52GBBB P87C52GFBB
P83C053	8-Bit MCU with 8K ROM & On-Screen-Display Function. Mask ROM version	42-pin Plastic DIP (Com temp, 12MHz)	P83C053BBP NB ROM coded-CV# upon verification
P83C054	8-Bit MCU with 16K ROM & On-Screen-Display Function. Mask ROM version	42-pin Plastic DIP (Com temp, 12MHz)	P83C04BBP NB ROM coded-CV# upon verification
P87C054	8-Bit MCU with 16K EPROM & On-Screen-Display Function	42-pin Plastic DIP OTP (Com temp, 12MHz)	P87C054BBP NB
P80CL410	8-Bit MCU with I^2C (1.8 - 6 volt operation) (ROMless version)	40-pin DIP (Ext temp, 16MHz) 40-pin Very Small Outline (Ext temp, 16MHz)	P80CL410HF N P80CL410HF D
P85CL000	Piggyback EPROM for 83CLXXX family	Piggyback EPROM (Ext temp, 16MHz)	P85CL000HF Z

Microcontroller Products (Cont.)			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
80CXX CMOS SERIES (Cont.)			
P83CL410	8-Bit MCU with I^2C and 4K bytes ROM (1.8 volts) Masked ROM version	Speed, pkg. and temp. same as 80CL410	ROM coded-CV# upon verification
SC80C451	I/O Expanded 8-Bit MCU; 7 8-Bit I/O ports ROMless version plus mailbox port	64-pin Plastic DIP (Com temp, 12MHz) 68-pin PLCC (Com temp, 12MHz) 64-pin Plastic DIP (Ext temp, 12MHz) 68-pin PLCC (Ext temp, 12MHz) 64-pin Plastic DIP (Com temp, 16MHz) 68-pin PLCC (Com temp, 16MHz) 64-pin Plastic DIP (Ext temp, 16MHz) 68-pin PLCC (Ext temp, 16MHz)	SC80C451CCN64 SC80C451CCA68 SC80C451ACN64 SC80C451ACA68 SC80C451CGN64 SC80C451CGA68 SC80C451AGN64 SC80C451AGA68
SC83C451	I/O Expanded 8-Bit MCU, Mask ROM version	Speed, pkg. and temp. same as 80C451	ROM coded-CV# upon verification
SC87C451	I/O Expanded 8-Bit /OTP MCU; EPROM ver- /OTP sion of SC80C451 OTP OTP OTP OTP	64-pin Plastic DIP (Com temp, 12MHz) 68-pin PLCC (Com temp, 12MHz) 68-pin CLCC (Com temp, 12MHz) 64-pin Plastic DIP (Ext temp, 12MHz) 68-pin PLCC (Ext temp, 12MHz) 68-pin CLCC (Ext temp, 12MHz) 64-pin Plastic DIP (Com temp, 16MHz) 68-pin PLCC (Com temp, 16MHz) 68-pin CLCC (Ext temp, 16MHz) 64-pin Plastic DIP (Ext temp, 16MHz) 68-pin PLCC (Ext temp, 16MHz) 68-pin CLCC (Ext temp, 16MHz)	SC87C451CCN64 SC87C451CCA68 SC87C451CCL68 SC87C451ACN64 SC87C451ACA68 SC87C451ACL68 SC87C451CGN64 SC87C451CGA44 SC87C451CGL68 SC87C451AGN64 SC87C451AGA68 SC87C451AGL68
P80C528	8-Bit CMOS MCU ROMless version	40-pin Plastic DIP (Com temp, 16MHz) 44-pin PLCC (Com temp, 16MHz) 40-pin Plastic DIP (Ext temp, 16MHz) 44-pin PLCC (Ext temp, 16MHz)	P80C528EBP N P80C528EBA A P80C528EFP N P80C528EFA A
P83C528	8-Bit CMOS MCU Masked ROM version	Speed, pkg. and temp. same as 80C508	ROM coded CV# upon verification
P87C528	8-Bit CMOS MCU EPROM version w/ 4 timers, Watchdog, I^2C & UART, 4 8-Bit ports, 512 bytes RAM, 32K EPROM	40-pin Plastic DIP (Com temp, 16MHz) 44-pin PLCC (Com temp, 16MHz) 40-pin Ceramic DIP (Com temp, 16MHz) 44-pin CLCC (Com temp, 16MHz) 40-pin Plastic DIP (Ext temp, 16MHz) 44-pin PLCC (Ext temp, 16MHz) 40-pin Ceramic DIP (Ext temp, 16MHz) 44-pin CLCC (Ext temp, 16MHz) 40-pin Plastic DIP (Com temp, 20MHz) 44-pin PLCC (Com temp, 20MHz) 40-pin Ceramic DIP (Com temp, 20MHz)	P87C528EBP N P87C528EBA A P87C528EBF FA P87C528EBL KA P87C528EFP N P87C528EFA A P87C528EFF FA P87C528EFL KA P87C528GBP N P87C528GBA A P87C528GBF FA

Microcontroller Products (Cont.)			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
80CXX CMOS SERIES (Cont.)			
P87C528 (Cont.)		44-pin CLCC (Com temp, 20MHz)	P878C528GBL KA
		40-pin Plastic DIP (Ext temp, 20MHz)	P87C528GFP N
		44-pin PLCC (Ext temp, 20MHz)	P87C528GFA A
		40-pin Ceramic DIP (Ext temp, 20MHz)	P87C528GFF FA
		44-pin CLCC (Ext temp, 20MHz)	P87C528GFL KA
P80C550	8-Bit MCU w/ 8-Bit A/D, 3 timers watchdog, 4 8-Bit ports, 128 bytes RAM ROMless version	40-pin Plastic DIP (Com temp, 16MHz)	P80C550EBP N
		44-pin PLCC (Com temp, 16MHz)	P80C550EBA A
		40-pin Plastic DIP (Ext temp, 16MHz)	P80C550EFP N
		44-pin PLCC (Ext temp, 16MHz)	P80C550EFA A
P83C550	8-Bit MCU with 8-Bit A/D, 3 timers watchdog, 4 8-Bit ports, 128 bytes RAM, 4K ROM Masked ROM version	Speed, pkg. and temp. same as 80C550	RAM coded CV# upon verification
P87C550	8-Bit MCU with 8-Bit , A/D, 3 timers watchdog 4 8-Bit ports, 128 bytes RAM, 4K EPROM (UV eraseable or OTP depending on package)	40-pin Plastic DIP (Com temp, 16MHz)	P87C550EBP N
		44-pin PLCC (Com temp, 16MHz)	P87C550EBA A
		40-pin Ceramic DIP w/window (Com temp, 16MHz)	P87C550EBF FA
		44-pin CLCC w/window (Com temp, 16MHz)	P87C550EBL KA
		40-pin Plastic DIP (Ext temp, 16MHz)	P87C550EFP N
		44-pin PLCC (Ext temp, 16MHz)	P87C550EFA A
		40-pin Ceramic DIP w/ window (Ext temp, 16MHz)	P87C550EFF FA
		44-pin CLCC w/ window in J-Bend	P87C550EFL KA
S80C552	8-Bit CMOS MCU, ROMless version, 10-Bit A/D, PWM outputs, 8 high-speed outputs, capture/compare counter/timer (I^2C)	68-pin PLCC (Com temp, 16MHz)	S80C552-1A68
		80-pin QFP (Com temp, 16MHz)	S80C552-1B
		68-pin PLCC (Ext temp, 16MHz)	S80C552-2A68
		80-pin QFP (Ext temp, 16MHz)	S80C552-2B
		68-pin PLCC (-40 to +125°C) 12MHz	S80C552-6A68
		80-pin QFP (-40 to +125°C) 12MHz	S80C552-6B
S83C552	8-Bit CMOS MCU, Mask ROM vertsion	Speed, package and temp. same as 80C552	ROM coded CV# upon verification
S87C552	8-Bit CMOS MCU; EPROM	68-pin PLCC (Com temp, 12MHz)	S87C552-1A68
		68-pin CLCC (Com temp, 12MHz)	S87C552-1K68
		68-pin PLCC (Ext temp, 12MHz)	S87C552-2A68
		68-pin CLCC (Ext temp, 12MHz)	S87C552-2K68
		68-pin PLCC (Com temp, 16MHz)	S87C552-4A68
		68-pin CLCC (Com temp, 16MHz)	S87C552-4K68
		68-pin PLCC (Ext temp, 16MHz)	S87C552-5A68
		68-pin CLCC (Ext temp, 16MHz)	S87C552-5K68
S80C562	8-Bit MCU with 4 timers, watchdog, 8-Bit A/D, 6 8-Bit ports, 256 bytes RAM (ROMless version)	68-pin PLCC (Com temp, 16MHz)	S80C562-4 A68
		68-pin PLCC (Ext temp, 12MHz)	S80C562-2 A68
		68-pin PLCC (-40 to +125°C & 12MHz)	S80C562-6 A68

Microcontroller Products (Cont.)			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
80CXX CMOS SERIES (Cont.)			
S83C562	8-Bit MCU with 4 timers, watchdog, 8-Bit A/D, 6 8-Bit ports, 256 bytes RAM and 8K ROM Masked ROM version	Speed, pkg. and temp. same as 80C562	ROM coded CV# upon verification
S80C652	8-Bit CMOS MCU, I²C serial port, 8K ROM, 256 bytes RAM ROMless version	40-pin Plastic DIP (Com temp, 12MHz)	S80C652-1N40
		44-pin PLCC (Com temp, 12MHz)	S80C652-1A44
		40-pin Plastic DIP (Ext temp, 12MHz)	S80C652-2N40
		44-pin PLCC (Ext temp, 12MHz)	S80C652-2A44
		40-pin DIP (-40 to +125°C) 12MHz	S80C652-6N40
		44-pin PLCC (-40 to +125°C) 12MHz	S80C652-6A44
S83C652	8-Bit CMOS MCU, Mask ROM version	Speed, package and temp. same as 80C652	ROM coded CV# upon verification
S87C652	8-Bit CMOS MCU, EPROM	40-pin Plastic DIP (Com temp, 16MHz)	S87C652-4N40
		44-pin PLCC (Com temp, 16MHz)	S87C652-4A44
	OTP	40-pin Ceramic DIP (Com temp, 16MHz)	S87C652-4F40
	OTP	44-pin CLCC (Com temp, 16MHz)	S87C652-4K44
	OTP	40-pin Plastic DIP (Ext temp, 16MHz)	S87C652-5N40
	OTP	44-pin PLCC (Ext temp, 16MHz)	S87C652-5A44
		40-pin CerDIP UV (Ext temp, 16MHz)	S87C652-5F40
		44-pin CLCC UV (Ext temp, 16MHz)	S87C652-5K44
	OTP	40-pin Plastic DIP (Com temp, 20MHz)	S87C652-7N40
	OTP	44-pin PLCC (Com temp, 20MHz)	S87C652-7A44
		40-pin CerDIP UV (Com temp, 20MHz)	S87C652-7F40
		44-pin CLCC UV (Com temp, 20MHz)	S87C652-7K44
	OTP	40-pin Plastic DIP (Ext temp, 20MHz)	S87C652-8N40
	OTP	44-pin PLCC (Ext temp, 20MHz)	S87C652-8A44
		40-pin CerDIP UV (Ext temp, 20MHz)	S87C652-8F40
		44-pin CLCC UV (Ext temp, 20MHz)	S87C652-8K44
S83C654	8-Bit CMOS MCU, I6K ROM (ROM code only)	Speed, package and temp. same as 80C652	ROM coded CV# upon verification
S87C654	8-Bit CMOS MCU, EPROM	40-pin Plastic DIP (Com temp, 12MHz)	S87C654-4N40
		44-pin PLCC (Com temp, 12MHz)	S87C654-4A44
		40-pin Ceramic DIP (Com temp, 12MHz)	S87C654-4F40
		44-pin CLCC (Com temp, 12MHz)	S87C654-4K44
	OTP	40-pin Plastic DIP (Ext temp, 16MHz)	S87C654-5N40
	OTP	44-pin PLCC (Ext temp, 16MHz)	S87C654-5A44
		40-pin CerDIP UV (Ext temp, 16MHz)	S87C654-5F40
		44-pin CLCC UV (Ext temp, 16MHz)	S87C654-5K44
	OTP	40-pin Plastic DIP (Com temp, 20MHz)	S87C654-7N40
	OTP	44-pin PLCC (Com temp, 20MHz)	S87C654-7A44
		40-pin CerDIP UV (Com temp, 20MHz)	S87C654-7F40
		44-pin CLCC UV (Com temp, 20MHz)	S87C654-7K44

Microcontroller Products (Cont.)			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
80CXX CMOS SERIES (Cont.)			
S87C654 (Cont.)	OTP	40-pin Plastic DIP (Ext temp, 20MHz)	S87C654-8N40
	OTP	44-pin PLCC (Ext temp, 20MHz)	S87C654-8A44
		40-pin CerDIP UV (Ext temp, 20MHz)	S87C654-8F40
		44-pin CLCC UV (Ext temp, 20MHz)	S87C654-8K44
S83C751	8-Bit MCU, 24-pin	24-pin Plastic DIP (Com temp, 12MHz)	S83C751-1N24
	Skinny DIP and 28-pin	28-pin PLCC (Com temp, 12MHz)	S83C751-1A28
	PLCC packages,	24-pin Plastic DIP (Ext temp, 12MHz)	S83C751-2N24
	I^2C-ROM code only	28-pin PLCC (Ext temp, 12MHz)	S83C751-2A28
	Masked ROM version	24-pin Plastic DIP (Com temp, 16MHz)	S83C751-4N24
		28-pin PLCC (Com temp, 16MHz)	S83C751-4A28
		24-pin Plastic DIP (Ext temp, 16MHz)	S83C751-5N24
		28-pin PLCC (Ext temp, 16MHz)	S83C751-5A28
S87C751	8-Bit MCU, EPROM version of S83C751	24-pin CerDIP (Com temp, 12MHz)	S87C751-1F24
	OTP	24-pin Plastic DIP (Com temp, 12MHz)	S87C751-1N24
	OTP	28-pin PLCC (Com temp, 12MHz)	S87C751-1A28
	OTP	24-pin Plastic DIP (Ext temp, 12MHz)	S87C751-2N24
	OTP	28-pin PLCC (Ext temp, 12MHz)	S87C751-2A28
		24-pin CerDIP (Com temp, 12MHz)	S87C751-3F24
	OTP	24-pin Plastic DIP (Com temp, 0.5-12MHz)	S87C751-3N24
	OTP	28-pin PLCC (Com temp, 0.5-12MHz)	S87C751-3A28
	OTP	24-pin Plastic DIP (Ext temp, 16MHz)	S87C751-5N24
	OTP	28-pin PLCC (Ext temp, 16MHz)	S87C751-5A28
S83C752	8-Bit MCU, A/D conver-	28-pin Plastic DIP (Com temp, 12MHz)	S83C752-1N28
	ter and PWM output	28-pin PLCC (Com temp, 12MHz)	S83C752-1A28
	Masked ROM version	28-pin Plastic DIP (Ext temp, 12MHz)	S83C752-2N28
		28-pin PLCC (Ext temp, 12MHz)	S83C752-2A28
		28-pin Plastic DIP (Com temp, 16MHz)	S83C752-4N28
		28-pin PLCC (Com temp, 16MHz)	S83C752-4A28
		28-pin Plastic DIP (Ext temp, 16MHz)	S83C752-5N28
		28-pin PLCC (Ext temp, 16MHz)	S83C752-5A28
S87C752	8-Bit MCU, EPROM	28-pin Ceramic DIP (Com temp, 12MHz)	S87C752-1F28
	OTP	28-pin Plastic DIP (Com temp, 12MHz)	S87C752-1N28
	OTP	28-pin PLCC (Com temp, 12MHz)	S87C752-1A28
		28-pin Ceramic DIP (Ext temp, 12MHz)	S87C752-2F28
	OTP	28-pin Plastic DIP (Ext temp, 12MHz)	S87C752-2N28
	OTP	28-pin PLCC (Ext temp, 12MHz)	S87C752-2A28
		28-pin Ceramic DIP (Com temp, 16MHz)	S87C752-4F28
	OTP	28-pin Plastic DIP (Com temp, 16MHz)	S87C752-4N28
	OTP	28-pin PLCC (Com temp, 16MHz)	S87C752-4A28
		28-pin Ceramic DIP (Ext temp, 16MHz)	S87C752-5F28
	OTP	28-pin Plastic DIP (Ext temp, 16MHz)	S87C752-5N28
	OTP	28-pin PLCC (Ext temp, 16MHz)	S87C752-5A28

Product Information

Microcontroller Products (Cont.)			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
80CXX CMOS SERIES (Cont.)			
S80C851	8-Bit MCU with E^2PROM for data storage; security features; ROMless version	40-pin Plastic DIP (Com temp, 12MHz) 44-pin PLCC (Com temp, 12MHz) 40-pin Plastic DIP (Ext temp, 12MHz) 44-pin PLCC (Ext temp, 12MHz)	S80C851-1N40 S80C851-1A44 S80C851-2N40 S80C851-2A44
S83C851	8-Bit MCU Mask ROM version	Speed, package and temp. same as 80C851	ROM coded CV# upon verification
90CXX CMOS SERIES			
P90C100	16-/32-Bit MCU 34K bytes ROM 512 bytes RAM counters/timers UART, I^2C 40 I/O lines 80C51 bus interface ROM coded CP# upon verification	84-pin PLCC (Com temp, 15MHz)	P90C100AB A
P93C100	16-/32-Bit MCU 34K bytes ROM 512 bytes RAM 256 bytes E^2PROM counters/timers UART, I^2C 40 I/O lines 80C51 bus interface Mask ROM version	84-pin PLCC (Com temp, 15MHz)	P93C100ABA ROM coded CP# upon verification
SM90C100SK	MicroCore III Evaluation Board	P93C110 ROM, RAM UART, I^2C Software, Probe	SM90C100SK
SBE90C100	P90C100 Family Single Board Emulator	P93C110 SCC68070 SCC66470 EPROM, RAM UART, I^2C Software, Probe	SBE90C100SD
MICROPROCESSORS			
SCN68000	16-/32-Bit Microprocessor	64-pin Plastic DIP 8MHz 68-pin PLCC 8MHz 64-pin Plastic DIP 10MHz 68-pin PLCC 10MHz	SCN68000C8N64 SCN68000C8A68 SCN68000CAN64 SCN68000CAA68
SCC68070	16-/32-Bit Highly Integrated Microprocessor	84-pin PLCC (Com temp, 12.5MHz) 120-pin QFP (Ext temp, 12.5MHz) 84-pin PLCC (Ext temp, 12.5MHz) 120-pin QFP (Ext temp, 12.5MHz) 84-pin PLCC (Com temp, 15MHz) 120-pin QFP (Com temp, 15MHz) 84-pin PLCC (Ext temp, 15MHz)	SCC68070CBA84 SCC68070CBB SCC68070ABA84 SCC68070ABB SCC68070CCA84 SCC68070CCB SCC68070ACA84

Product Information

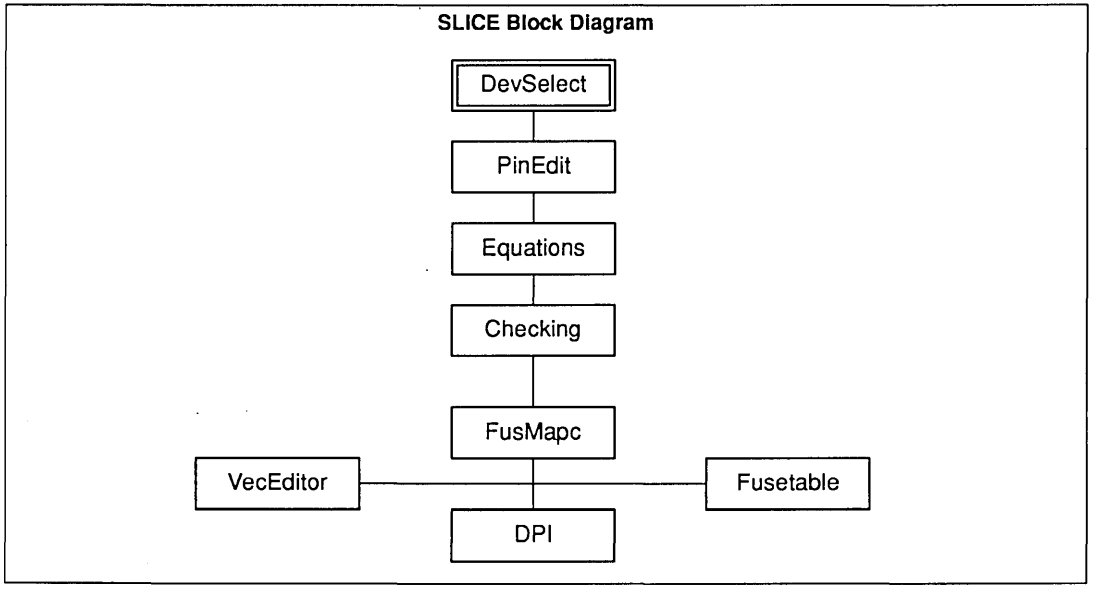
Microcontroller Products (Cont.)			
PART NUMBER	**DESCRIPTION**	**PACKAGE TYPE**	**ORDER CODE**
MICROPROCESSORS (Cont.)			
SCC68070 (Cont.)		120-pin QFP (Ext temp, 15MHz) 84-pin PLCC (Com temp, 17.5MHz) 120-pin QFP (Com temp, 17.5MHz)	SCC68070ACB SCC68070CDA84 SCC68070CDB
SCC66470	Video & System Controller	120-pin Plastic QFP (Com temp) 120-pin QFP (Ext. temp)	SCC66470CAB SCC66470AAB
SM68070SK	MicroCore Evaluation Board	SCC68070, SCC66470, ROM, RAM, UART, I^2C, Software	SM68070SK
SBE68070	SCC68070 Single Board Emulator	SCC68070 SCC66470 EPROM, RAM, UART, I^2C, Software, Probe	SBE68070SD
PROPRIETARY BIPOLAR			
N8X305	8-Bit MCU	A, N	N8X305N
N8X310	Interrupt Controller	N	N8X310N
N8X371	Transparent I/O Port	N	N8X371N
N8X372	Addressable I/O Port	N	N8X372N
N8X376	Addressable I/O Port	N	N8X375
N8X401	8-Bit MCU	N	N8X401N
8X400A S1SS	Fortress 8X400 Cross-Assembler	Not Applicable	N8X400 S1SS
8X400 KT1SK	8X400 Proto System	Not Applicable	8X400 KT1SK
8X300 KT1SK	8X300 Proto System	Not Applicable	8X300 KT1SK
8X300 KT2SK	8X300 Proto Memory Expansion	Not Applicable	8X300 KT2SK
8X300A S1SS	MCCAP-Microcontroller Cross-Assembler program	Not Applicable	8X300A S1SS
8X300A S3SS	MCCAP-Microcontroller Cross-Assembler for MS-DOS systems	Not Applicable	8X300A S3SS

Product Information

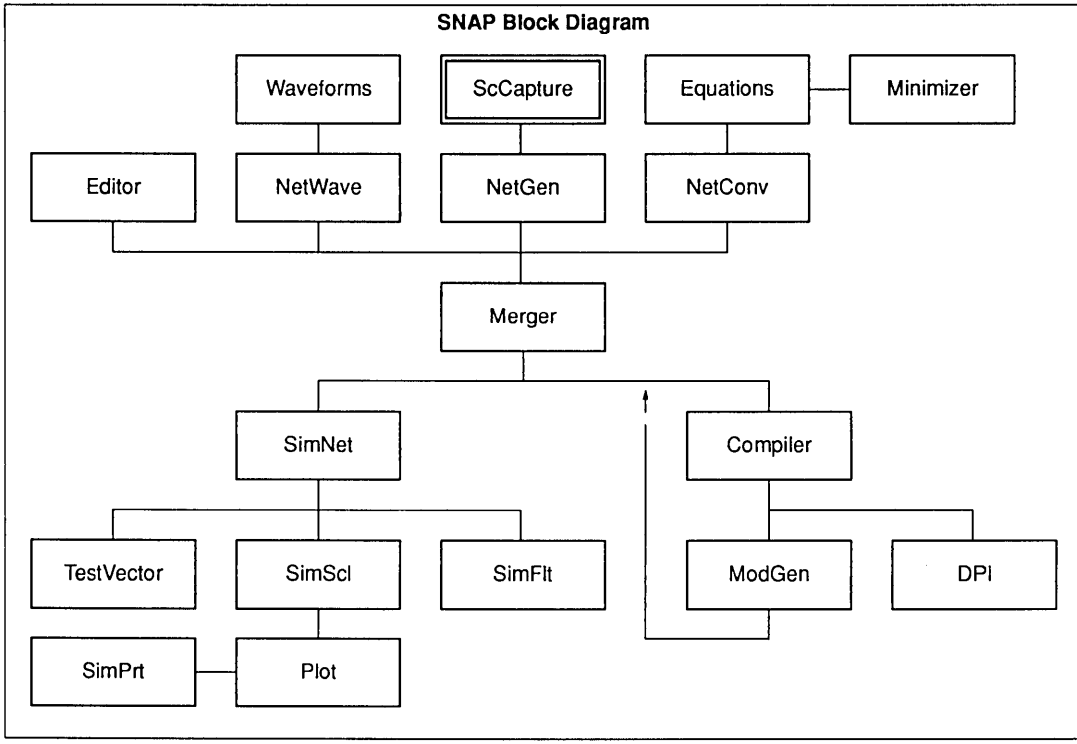
Programmable Logic Devices

To support the Philips/Signetics PLD product line, we offer two powerful design software packages. SLICE, a menu driven PC based design package, is available at no charge and allows the first-time user to immediately produce a working PLD design. It features Boolean and state equation entry, a fuse table editor, a test vector editor and is upwards compatible to SNAP.

For the high-end designs we offer SNAP. SNAP is a device independent, netlist-based development software environment. It offers Boolean and state equation entry, direct netlist entry, waveform entry as well as interfaces to schematic capture packages like OrCAD and Futurenet. It features the Espresso minimizer, a fuse table editor, and a Boolean equations extractor. The Philips 5-state gate array simulator "LESIM" provides unsurpassed accuracy in functional, fault, timing simulation and logic analysis.



Product Information



Product Information

PLD Products

DEVICE TYPE	COMPLEXITY	PINS	PACKAGE CODES
PAL®-TYPE DEVICES			
PHD16N8-5	16 × 16 × 8	20	A, N
PLUS16L8-7	16 × 64 × 8	20	A, N
PLUS16R4-7	16 × 64 × 8	20	A, N
PLUS16R6-7	16 × 64 × 8	20	A, N
PLUS16R8-7	16 × 64 × 8	20	A, N
PLUS16L8D	16 × 64 × 8	20	A, N
PLUS16R4D	16 × 64 × 8	20	A, N
PLUS16R6D	16 × 64 × 8	20	A, N
PLUS16R8D	16 × 64 × 8	20	A, N
PLUS20L8-7	20 × 64 × 8	24	A, N
PLUS20R4-7	20 × 64 × 8	24	A, N
PLUS20R6-7	20 × 64 × 8	24	A, N
PLUS20R8-7	20 × 64 × 8	24	A, N
PLUS20L8D	20 × 64 × 8	24	A, N
PLUS20R4D	20 × 64 × 8	24	A, N
PLUS20R6D	20 × 64 × 8	24	A, N
PLUS20R8D	20 × 64 × 8	24	A, N
PLC18V8Z35/PLC18V8ZI	18 × 74 × 8	20	A, FA, N
PLC18V8Z25/PLC18V8ZIA	18 × 74 × 8	20	A, FA, N
PL22V10-10/-12/-15	22 × 132 × 10	24	A, N
PLA			
PLS100/101	16 × 48 × 8	28	A, N
PLS153	18 × 42 × 10	20	A, N
PLS153A	18 × 42 × 10	20	A, N
PLUS153B	18 × 42 × 10	20	A, N
PLUS153D	18 × 42 × 10	20	A, N
PLUS153-10	18 × 42 × 10	20	A, N
PLS173	22 × 42 × 10	24	A, N
PLUS173B	22 × 42 × 10	24	A, N
PLUS173D	22 × 42 × 10	24	A, N
PLUS173-10	20 × 42 × 10	24	A, N
PLS			
PLS105	22 × 48 × 8	28	A, N
PLS105A	22 × 48 × 8	28	A, N
PLUS105-45	22 × 48 × 8	28	A, N, N3
PLUS105-55	22 × 48 × 8	22	A, N, N3
PLUS405-37	24 × 64 × 8	28	A, N
PLUS405-45	24 × 64 × 8	28	A, N
PLUS405-55	24 × 64 × 8	28	A, N
PLS155	16 × 45 × 12	20	A, N
PLS157	16 × 45 × 12	20	A, N
PLS159A	16 × 45 × 12	20	A, N
PLS167	22 × 48 × 6	24	A, N
PLS167A	22 × 48 × 6	24	A, N
PLS168	22 × 48 × 6	24	A, N
PLS168A	22 × 48 × 6	24	A, N

Product Information

PLD Products (Cont.)

DEVICE TYPE	COMPLEXITY	PINS	PACKAGE CODES
PLS (Cont.)			
PLS179	20 x 45 x 12	24	A, N
PLC42VA12	42 x 105 x 12	24	A, FA, N
PLC415-16	25 x 68 x 8	28	A, FA, N
PML™			
PLHS501	104 x 116 x 24	52	A
PML2552-35	185 x 226 x 24	68	A, K
PML2552-50	185 x 226 x 24	68	A, K
PML2852-35	185 x 226 x 40	84	A, K
PML2852-50	185 x 226 x 40	84	A, K

PAL-Type = Programmable Array Logic (Fixed OR Array)-Type
PHD = Programmable High-Speed Decoder
PLA = Programmable Logic Array
PLS = Programmable Logic Sequencer
PML = Programmable Macro Logic

OUTPUTS:
C = Combinatorial output
R = Registered output
I/O = Combinatorial I/O
R I/O = Registered I/O

NOTES:
$f_{MAX} = 1/(t_{IS} + t_{CKO})$ worst case
* Includes control product terms
♦ Product terms per NAND gate
PAL is a trademark of AMD/MMI.
PML is a trademark of Philips Components-Signetics.

Power Products

DEVICE TYPE	DESCRIPTION	PACKAGE CODES
MOTOR CONTROL		
NE/SA/SE5570	3-Phase Brushless DC Motor Driver	D, N
NE5044	Programmable Seven-Channel RC Encoder	D, N
µA723/C	Precision Voltage Regulator	D, F, N
POWER SUPPLY		
NE/SE5560	SMPS Control Circuit	D, N
NE/SE5561	SMPS Control Circuit	D, N
NE/SE5562	SMPS Control Circuit, Single Output	D, F, N
NE5568	SMPS Controller	D, N
UC3842	SMPS Control Circuit, Current Mode	D, N

RF Communications Products

DEVICE TYPE	DESCRIPTION	PACKAGE CODES
MC1496/1596	Balanced Modulator/Demodulator	F, N
MC3361	Low Power FM IF	D, N
NE568A	150MHz Phase-Locked Loop	D, N
NE570	Compandor	D, F, N
NE612A	Low Power VHF/Mixer/Oscillator	D, N
NE/SA5200	Dual Gain Stage FM Amplifier	D
NE/SA5204	Wideband High Frequency Amplifier	D, N
NE/SA5209	Variable Gain RF Amplifier	D, N

Product Information

RF Communications Products (Cont.)		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
NE/SA5234	Quad High Performance Low Voltage Operational Amplifier	D, F, N
NE/SA5241	Digital Dolby	D, N
NE/SA571	Compandor	D, F, N
NE/SA572	Programmable Compandor	D, N
NE/SA575	Low Voltage Compandor	D, N
NE/SA5750	Audio Processor System Compandor and Amplifier	D, N
NE/SA5751	Audio Processor Filter and Control Section	D, N
NE/SA576	Low Power Compandor	D, N
NE/SA577/578	Low Power Compandor	D, N
NE/SA602A	Low Power VHF Mixer/Oscillator	D, N
NE/SA604A	High Performance, Low Power FM IF System	D, N
NE/SA605	High Performance One-Chip FM System	D, DK, N
NE/SA606	Low Power FM IF System	D, DK, N
NE/SA607	Low Power FM IF System	D, DK, N
NE/SA614A	Low Power FM IF System TDA 1576	D, N
NE/SA615	High Performance, Low Power Mixer FM IF System	D, DK, N
NE/SA630	Single Pole Double Throw Switch	D, N
NE/SA/SE5205	Wideband High Frequency Amplifier	D, FE, N
NE/SA/SE5212A	Transimpedance Amplifier	D
NE/SE5230	Low Voltage Operational Amplifier	D, N
NE/SE5539	Ultra High Frequency Operational Amplifier	D, F, N
NE/SE567	Tone Decoder/Phase-Locked Loop	D, F, FE, N

Radio Products		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
FM RADIO CIRCUITS		
TDA1001BT	Interference Suppressor	D
TDA1574T	FM Front End (VHF Mixer & Oscillator)	D
TDA1576	FM IF System	N
TDA1578A	PLL Stereo Decoder	N
TDA1591	FM Stereo Decoder with Noise Canceller	N
TDA1596	FM IF System	N
TDA1598	PLL Stereo Decoder	N
TDA7000	FM Radio – Single Chip	N
TDA7010T	FM Radio – Single Chip	D
TDA7021T	LV One Chip FM – Single Chip	D
TDA7040T	LV Stereo Decoder	D
TDA7088T	FM Radio with Search Tuning	D
TEA5570	AM-FM Radio	N
TEA5581T	Stereo Decoder and Preamp	D
TEA5591	AM Radio Receiver	N
TEA5594	AM/FM Radio for Digital Tuning	N
TEA6100	IF Amp with Quad Detection – I^2C	N

Product Information

Radio Products (Cont.)		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
SYNTHESIZERS		
HEF4750VD	Frequency Synthesizer	F
HEF4751VD	Universal Divider	F
SAA1057	AM/FM Frequency Synthesizer	N
TSA6057T	AM-FM Frequency Synthesizer with I^2C	D
TDD1742T	Low Power Synthesizer	D
UMF1009T	I^2C Low Power Frequency Synthesizer	D
UMF1014T	50MHz - 1.0GHz Frequency Synthesizer	D
AM RECEIVERS		
TDA1072A	AM Receiver Circuit	N
TDA1572	AM Receiver Circuit with IF Output	N
TEA5591	AM/FM Radio Receiver	N
TEA6200	AM Receiver with up Conversion	N
TEA5594	AM/FM Radio for Digital Tuning	N
CELLULAR RADIO CHIP SET		
NE/SA605	High Performance FM IF System	D, N, DK
NE/SA5750	Audio Processor Compandor and Amplifier	D, N
NE/SA5751	Audio Processor Filter and Control Section	D, N
S80C552	Microcontroller	A
S83C552	Microcontroller	A
UMF1000T	Data Processor for AMP/TAC Cellular Radio	D
UMA1014T	RF Frequency Synthesizer	D

Telecom Products		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
DIALERS & SPEECH TRANSMISSION CIRCUITS		
PCD3310AP	DTMF Pulse Dialer with Redial	N
PCD3310T	DTMF Pulse Dialer with Redial	D
PCD3311P, T	DTMF Generator (Parallel/I^2C)	D, N
PCD3312P, T	DTMF Generator, I^2C	D, N
PCD3360P, T	Programmable Multi Tone Ringer	D, N
TEA1060	Transmission Circuit	N
TEA1061	Telephony Speech Transmission IC	N
TEA1062	Telephony Speech Transmission IC	N
TEA1064, T	Telephony Speech Transmission IC	D, N
TEA1066T	Telephony Speech Transmission IC	D
TEA1067, T	Telephony Speech Transmission IC	D, N
TEA1068, T	Telephony Speech Transmission IC	D, N
TEA1081, T	Supply Circuit for Telephone	D, N
LOW VOLTAGE MICROCONTROLLERS		
PCD3315P, T	CMOS Microcontroller with 1.5k, 160 Bytes	D, N
PCD3343P, T	CMOS Microcontroller with I^2C, 3K, 224 Bytes	D, N
PCD3344P, T	CMOS Microcontroller with DTMF, 2K, 224 Bytes	D, N
PCD3347P, T	CMOS Microcontroller with DTMF Generator	D, N

Telecom Products (Cont.)		
DEVICE TYPE	**DESCRIPTION**	**PACKAGE CODES**
LOW VOLTAGE MICROCONTROLLERS (Cont.)		
PCD3348P, T	CMOS Microcontroller with I²C, 8K, 256 Bytes	D, N
PCD3349P, T	CMOS Microcontroller with I²C, DTMF, 4K, 224 Bytes	D, N
PCF84C12P, T	CMOS Microcontroller, 1.5K, 64 Bytes	D, N
PCF84C21P, T	CMOS Microcontroller with I²C, 2K, 64 Bytes	D, N
PCF84C22P, T	CMOS Microcontroller, 2K, 64 Bytes	D, N
PCF84C41P, T	CMOS Microcontroller with I²C, 4K, 128 Bytes	D, N
PCF84C42P, T	Micro with 4K/64 Bytes	D, N
PCF84C81P, T	CMOS Microcontroller with I²C, 8K, 256 Bytes	D, N
PCF84C85P, T	CMOS Microcontroller with I²C, 8K, 256 Bytes, 32 I/O	D, N
PCF84C121T	CMOS Microcontroller with EEPROM, 1.5K, 64 Bytes	D
PCF84C270P, T	CMOS Microcontroller with Cap, Keyboard Interface	D, N
PCF84C271P, T	CMOS Microcontroller with Mech, Keyboard Interface	D, N
PCF84C430T	CMOS Microcontroller with I²C, with LCD Driver	D
PCF84C470P, T	CMOS Microcontroller with Cap Keyboard Interface	D, N
PCF84C633P	CMOS Microcontroller with LCD Driver	N
PCF84C640P	CMOS Microcontroller with I²C (TV Tuning)	N

Video Products		
PART NUMBER	**DESCRIPTION**	**PACKAGE CODES**
TUNERS/TUNING SYSTEMS		
SAB3035	FLL Tuning and Control Circuit (Eight D/A Converters)	N
SAB3036	FLL TV Tuning Circuit	N
SAB3037	FLL TV Tuning Circuit (Four D/A Converters)	N
SAB6456, T	1GHz Divide by 64 or 256 Prescaler	D, N
TDA5030A, T	VHF Mixer/Oscillator (VHF Tuner IC)	D, N
TDA5330T	VHF/UHF Mixer-Oscillator	D
TSA5511, T	Digital Synthesizer for TV with Prescaler	D, N
REMOTE CONTROL SYSTEMS		
SAA3007P, T	IR Transmitter (2K Commands, 455kHz)	D, N
SAA3010P, T	IR Transmitter (2K Commands, Low Voltage)	D, N
SAA3049P, T	IR Remote Control Decoder	D, N
TDA3047P, T	IR Preamplifier	D, N
TDA3048P, T	IR Preamplifier	D, N
TELEVISION SUBSYSTEMS		
TDA4501	Small-Signal Subsystem IC for Color TV	N
TDA4502	Complete Video IF IC with Vertical & Horizontal Sync	N
TDA4503	Small-Signal Subsystem for Monochrome TV	N
TDA4505	Small-Signal Subsystem for Color TV	N
VIDEO IF		
TDA8340	Video IF Amplifier and Demodulator, AFT, NPN Tuners	N
TDA8341N	Video IF Amplifier and Demodulator, AFT, NPN Tuners	N
SOUND IF AND SPECIAL AUDIO DECODING		
TDA2545A	Quasi-Split Sound IF System	N
TDA2546A	Quasi-Split Sound IF and Sound Demodulator	N

Product Information

Video Products (Cont.)		
PART NUMBER	**DESCRIPTION**	**PACKAGE CODES**
SYNC PROCESSING AND GENERATION/VERTICAL DETECTION		
SAA1101P, T	Universal Sync Generator	D, N
TDA2577A	Sync Circuit w/ Vertical Oscillator & Driver (w/ Neg. Horiz. Output)	N
TDA2578A	Sync Circuit w/ Vertical Oscillator & Driver (w/ Neg. Horiz. Output)	N
TDA2579	Synchronization Circuit (with Horizontal Output)	N
TDA2593	Horizontal Combination	N
TDA2594	Horizontal Combination	N
TDA2595	Horizontal Combination	N
TDA2653A	Vertical Deflection Circuit with Oscillator	U
TDA3653B/C	Vertical Deflection	U
TDA3654	Vertical Deflection	U
TDA8433	Deflection Processor	N
ANALOG COLOR DECODING, ENCODING, AND SWITCHING		
TDA3505	Chroma Control Circuit	N
TDA3507	Chroma Control Circuit	N
TDA3566	PAL/NTSC Decoder with RGB Inputs	N
TDA3567	NTSC Color Decoder	N
TDA4555	Multistandard Color Decoder	N
TDA4565	Color Transient Improvement Circuit (CTI)	N
TDA4570	NTSC Color Difference Decoder	N
TDA4580	Video Control Combination Circuit with Automatic Cut-off Control	N
TDA4650	PAL/NTSC/SECAM Decoder	N
TDA4660	Switched Capacitor Delay Line	N
TDA4670	Picture Signal Improvement	N
TDA4680	Video Processor	N
TDA8440	Audio/Video Switch	N
TDA8442	Quad DAC (I^2C) for Color Decoder	N
TDA8443, A	RGB/YUV Matrix Switch	N
TDA9045	Gain Control, Video Switch	N
DIGITAL COLOR DECODING AND ENCODING		
SAA7151AP	8-Bit Digital PAL/NTSC/SECAM Decoder	A
SAA7157	Clock Generator for SAA7151	N
SAA7191WP	8-Bit Digital PAL/NTSC/SECAM Decoder	A
SAA7192WP	Digital Color Space Converter	A
SAA7197, T	Clock Generator for SAA7191	D, N
SAA7199WP	Digital PAL/NTSC Encoder	A
SAA9051WP	7-Bit Digital PAL/NTSC Decoder	A
SAA9056	Digital SECAM Decoder	N
SAA9057AP, T	Clock Generator for SAA9051	D, N
SAA9060P	Video Processor with DACs	N
HIGH SPEED DATA CONVERTERS		
TDA8702, T	8-Bit Digital-to-Analog Converter	D, N
TDA8703, T	8-Bit Analog-to-Digital Converter	D, N
TDA8708, T	8-Bit Video Analog-to-Digital Converter	D, N
TDA8709, T	8-Bit Video Analog-to-Digital Converter	D, N
TDE8715D	8-Bit Analog-to-Digital Converter	F
TDA8713, T2	8-Bit Analog-to-Digital Converter	D, N

SMD Product Listing

Index

SMD Product Listing

ADC0803C	8-BIT A/D CONVERTER 0 TO 70°C	SO-20
ADC0803LC	8-BIT A/D CONVERTER -40 TO +85°C	SO-20
ADC0804C	8-BIT A/D CONVERTER 0 TO 70°C	SO-20
ADC0804LC	8-BIT A/D CONVERTER -40 TO +85°C	SO-20
ADC0820CNE	8-BIT CMOS A/D CONVERTER	SO-20
AM26LS30C	RS-422/RS-423 LINE DRIVER	SO-16
AM26LS30I	RS-422/423 LNE DRIVER -40 TO +85°C	SO-16
AM26LS31C	QUAD HIGH SPEED LINE DRIVER	SO-16
AM26LS31I	QUAD HIGH SPEED LINE DRIVER	SO-16
AM26LS32C	QUAD HIGH SPEED DIFF RECEIVER	SO-16
AM26LS32I	QUAD HIGH SPEED DIFF RECEIVER	SO-16
AM6012	12-BIT D/A CONVERTER	SO-20
AU2902	AUTO QUAD OP AMP -40 TO +125°C	SO-14
AU2904	AUTO DUAL OP AMP -40 TO +125°C	SO-8
DAC-08E	8-BIT D/A CONVERTER	SO-16
FCB61C65L-70	SRAM 70NS SOG LOW POWER 8K x 8	SO-28
FCB61C65LL70	SRAM 70NS SOG LOW POWER 8K x 8	SO-28
FCB61C65LL85	SRAM 85NS INDTEMP S06 8K x 8	SO-28
HEF4000BT	DUAL 3-INPUT NOR GATE & INVERTER	SO-14
HEF4001BT	QUADRUPLE 2-INPUT NOR GATE	SO-14
HEF4002BT	DUAL 4-INPUT NOR GATE	SO-14
HEF4006BT	18-STAGE STATIC SHIFT REGISTER	SO-14
HEF4007UBT	DUAL COMPLEMENTARY PRE-INVERTER	SO-14
HEF4008BT	4-BIT BINARY FULL ADDER	SO-16
HEF40097BT	3-STAGE HEX NON-INVERTING BUFFER	SO-16
HEF40098BT	3-STAGE HEX INVERTING BUFFER	SO-16
HEF40106BT	HEX SCHMITT TRIGGER	SO-14
HEF4011BT	QUADRUPLE 2-INPUT NAND GATE	SO-14
HEF4011UBT	QUAD 2-INPUT NAND GATE: UNBUFFERED	SO-14
HEF4012BT	DUAL 4-INPUT NAND GATE	SO-14
HEF4013BT	DUAL D-TYPE FLIP-FLOP	SO-14
HEF4014BT	8-BIT STATIC SHIFT REGISTER	SO-16
HEF4015BT	DUAL 4-BIT STATIC SHFT REGISTER	SO-16
HEF4016BT	QUADRUPLE BILATERAL SWITCHES	SO-14
HEF40161BT	4-BIT SYNCHRON BINARY COUNTER	SO-16
HEF40163BT	4-BIT SYNCHRON BINARY COUNTER	SO-16
HEF4017BT	5-STAGE JOHNSON COUNTER	SO-16
HEF40174BT	HEX D-TYPE FLIP-FLOP	SO-16
HEF40175BT	QUADRUPLE D-TYPE FLIP-FLOP	SO-16
HEF4018BT	PRESETTABLE DIVIDE-BY-N COUNTER	SO-16
HEF4019BT	QUADRUPLE 2-INPUT MULTIPLEXER	SO-16
HEF40192BT	4-BIT UP/DOWN DECADE COUNTER	SO-16
HEF40193BT	4-BIT UP/DOWN BINARY COUNTER	SO-16
HEF40195BT	4-BIT UNIVERSAL SHIFT REGISTER	SO-16
HEF4020BT	14-STAGE BINARY COUNTER	SO-16
HEF4021BT	8-BIT STATIC SHIFT REGISTER	SO-16
HEF4022BT	4-STAGE DIV-BY-8 JOHNSON COUNTER	SO-16
HEF4023BT	TRIPLE 3-INPUT NAND GATE	SO-14
HEF4024BT	7-STAGE BINARY COUNTER	SO-14

SMD Product Listing

HEF40244BT	OCTAL BUFFER W/ 3-STATE OUTPUTS	SO-20
HEF4025BT	TRIPLE 3-INPUT NOR GATE	SO-14
HEF4027BT	DUAL JK FLIP-FLOP	SO-16
HEF4028BT	1-OF-10 DECODER	SO-16
HEF4029BT	SYN UP/DOWN BIN DECADE COUNTER	SO-16
HEF4030BT	QUADRUPLE EXCLUSIVE-OR GATE	SO-14
HEF4035BT	4-BIT UNIVERSAL SHIFT REGISTER	SO-16
HEF40373BT	OCTAL TRANSPARENT LATCH W/ 3-STATE OUTPUTS	SO-20
HEF40374BT	OCTAL D-TYPE FLIP/FLOP W/ 3-STATE OUTPUTS	SO-20
HEF4040BT	12-STAGE BINARY COUNTER	SO-16
HEF4042BT	QUADRUPLE D-LATCH	SO-16
HEF4043BT	QUAD R/S LATCH W/ 3-STATE OUTPUTS	SO-16
HEF4044BT	QUAD R/S LATCH W/ 3-STATE OUTPUTS	SO-16
HEF4046BT	PHASE LOCKED LOOP	SO-16
HEF4047BT	MONOSTABLE/ASTABLE MULTIVIBRATOR	SO-14
HEF4049BT	HEX INVERTING BUFFERS	SO-16
HEF4050BT	HEX NON-INVERTING BUFFERS	SO-16
HEF4051BT	8-CHANNEL MUX/DEMUX	SO-16
HEF4052BT	DUAL 4-CHANNEL MUX/DEMUX	SO-16
HEF4053BT	TRIPLE 2-CHANNEL MUX/DEMUX	SO-16
HEF4059BT	PROGRAMMABLE DIVIDE-BY-N COUNTER	SO-24
HEF4060BT	14-STAGE RC BIN COUNTER/DIV W/ OSC.	SO-16
HEF4066BT	QUADRUPLE BILATERAL SWITCHES	SO-14
HEF4067BT	16-CHANNEL MUX/DEMUX	SO-24
HEF4068BT	8-INPUT NAND GATE	SO-14
HEF4069UBT	HEX INVERTER	SO-14
HEF4070BT	QUADRUPLE EXCLUSIVE-OR GATE	SO-14
HEF4071BT	QUADRUPLE 2-INPUT OR GATE	SO-14
HEF4072BT	DUAL 4-INPUT OR GATE	SO-14
HEF4073BT	TRIPLE 3-INPUT AND GATE	SO-14
HEF4075BT	TRIPLE 3-INPUT OR GATE	SO-14
HEF4076BT	QUAD D-REGISTER 3-STATE	SO-16
HEF4077BT	QUADRUPLE EXCLUSIVE-NOR GATE	SO-14
HEF4078BT	8-INPUT NOR GATE	SO-14
HEF4081BT	QUADRUPLE 2-INPUT AND GATE	SO-14
HEF4082BT	DUAL 4-INPUT AND GATE	SO-14
HEF4085BT	DUAL 2-WIDE 2-IN AND/OR INVERT	SO-14
HEF4093BT	QUAD 2-IN NAND SCHMITT TRIGGER	SO-14
HEF4094BT	8-STAGE SHIFT-&-STORE BUS REGISTER	SO-16
HEF4104BT	QUAD LOW-TO-HIGH VOLTAGE TRANSLATOR	SO-16
HEF4502BT	STROBED HEX INVERTER/BUFFER	SO-16
HEF4510BT	BCD UP/DOWN COUNTER	SO-16
HEF4511BT	BCD-TO-7-SEG LATCH/DECODER/DRIVER	SO-16
HEF4512BT	8-INPUT MULTIPLEXER W/ 3-STAGE OUTPUT	SO-16
HEF4514BT	1-OF-16 DECODER/DEMUX	SO-24
HEF4515BT	1-OF-16 DECODER/DEMUX	SO-24
HEF4516BT	BINARY UP/DOWN COUNTER	SO-16
HEF4518BT	DUAL BCD COUNTER	SO-16
HEF4519BT	QUADRUPLE 2-INPUT MUX	SO-16
HEF4520BT	DUAL BINARY COUNTER	SO-16
HEF4521BT	24-STAGE FREQUENCY DIVIDER	SO-16
HEF4522BT	PROGRAMMABLE 4-BIT BCD DOWN COUNTER	SO-16

SMD Product Listing

HEF4526BT	PROGRAMMABLE 4-BIT BCD DOWN COUNTER	SO-16
HEF4527BT	BCD RATE MULTIPLIER	SO-16
HEF4528BT	DUAL MONOSTABLE MULTIVIBRATOR	SO-16
HEF4532BT	8-INPUT PRIORITY ENCODER	SO-16
HEF4538BT	DUAL PRECISION MONOSTABLE MULTIVIBRATOR	SO-16
HEF4539BT	DUAL 4-INPUT MULTIPLEXER	SO-16
HEF4541BT	PROGRAMMABLE TIMER	SO-14
HEF4543BT	BCD-TO-7-SEG LATCH/DECODER/DRIVER	SO-16
HEF4555BT	DUAL 1-OF-4 DECODER/DEMUX	SO-16
HEF4556BT	DUAL 1-OF-4 DECODER/DEMUX	SO-16
HEF4557BT	1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER	SO-16
HEF4585BT	4-BIT MAGNITUDE COMPARATOR	SO-16
HEF4724BT	8-BIT ADDRESSABLE LATCH	SO-16
ICM7555C	CMOS TIMER-MICRO MIN.	SO-8
ICM7555I	CMOS TIMER -40 TO +85°C	SO-8
I74F00	QUAD 2-IN NAND GATE IND TEMP	SO-14
I74F02	QUAD 2-IN NOR GATE IND TEMP	SO-14
I74F04	HEX INVERTER IND TEMP	SO-14
I74F109	DUAL J-K POS EDGE FLIP/FLOP IND TEMP	SO-16
I74F112	DUAL J-K NEG EDGE FLIP/FLOP IND TEMP	SO-16
I74F113	DUAL J-K NEG EDGE FLIP/FLOP	SO-14
I74F138	1-OF-8 DECODER/DEMUX IND TEMP	SO-16
I74F14	HEX SCHMITT TRIGGER IND TEMP	SO-14
I74F166	8-BIT SHIFT REGISTER IND TEMP	SO-16
I74F175	QUAD D-TYPE FLIP/FLOP IND TEMP	SO-16
I74F175A	QUAD D-TYPE FLIP/FLOP IND TEMP	SO-16
I74F244	OCTAL BUS/LINE DRIVER IND TEMP	SO-20
I74F27	TRIPLE 3-INPUT NOR GATE	SO-14
I74F280B	9-BIT O/E PARITY GENERATOR CHECKER IND TEMP	SO-14
I74F3037	QUAD 2-IN NAND TRN LINE DRIVER IND TEMP	SOL-16
I74F32	QUAD 2-INPUT OR GATE IND TEMP	SO-14
I74F38	QUAD 2-IN NAND BUFFER O/C IND TEMP	SO-14
I74F50728	M-STABLE IMM N/D PKGS IND TEMP	SO-14
I74F50729	M-STABLE IMM N/D PKGS IND TEMP	SO-14
I74F652A	BUS TRANS/REG NINV 3-STATE IND TEMP	SO-24
I74F655A	OCT INV BUFF W/PARITY IND TEMP	SO-24
I74F656A	OCT BUFFER W/PARITY G/C IND TEMP	SO-24
I74F657	OCT BUFF W/PARITY G/C IND TEMP	SO-24
I74F74	DUAL D-TYPE EDGE TRIGGER FLIP/FLOP IND TEMP	SO-14
I74F776	OCT BIDIRCT P1-BUS TRANSCEIVER IND TEMP	PLCC-28
I74F786	4-INPUT ASYNCHRONOUS BUS ARBITER	SO-16
I74F823	9-BIT REGISTER NINV 3-STATE IND TEMP	SO-24
I74F86	QUAD EXCL OR GATE IND TEMP	SO-14
LF398	SAMPLE-AND-HOLD AMPLIFIER	SO-14
LM211	VOLTAGE COMPARATOR	SO-8
LM219	DUAL COMPARATOR	SO-14
LM224	QUAD OP AMPLIFIER	SO-14
LM239	QUAD VOLTAGE COMPARATOR	SO-14
LM258	DUAL OP AMP MICRO	SO-8
LM2901	QUAD VOLTAGE COMPARATOR	SO-14
LM2902	QUAD OP AMP	SO-14
LM2903	DUAL VOLTAGE COMPARATOR	SO-8

SMD Product Listing

LM2904	DUAL OP AMP	SO-8
LM293	DUAL COMPARATOR	SO-8
LM293A	DUAL COMPARATOR	SO-8
LM311	VOLTAGE COMPARATOR	SO-8
LM319	HIGH SPEED DUAL COMPARATOR	SO-14
LM324	QUAD OP AMP	SO-14
LM324A	QUAD OP AMP	SO-14
LM339	QUAD VOLT COMP	SO-14
LM358	DUAL OP AMP	SO-8
LM358A	DUAL OP AMP	SO-8
LM393	DUAL COMP	SO-8
LM393A	DUAL COMPARATOR	SO-8
MC1408-8	8-BIT D/A CONVERTER	SO-16
MC145406	CMOS RS232-D TRIPLE RECEIVER/DRIVER	SOL-16
MC1458	DUAL OP AMP	SO-8
MC1488	QUAD LINE DRIVER	SO-14
MC1489	QUAD LINE RECEIVER	SO-14
MC1489A	QUAD LINE RECEIVER	SO-14
MC3302	QUAD VOLTAGE COMPARATOR	SO-14
MC3361	LOW POWER FM IF	SOL-16
NE4558	DUAL GENERAL PURPOSE OP AMP	SO-8
NE5018	8-BIT D/A CONVERTER VOLT OUT	SO-24
NE5044	PROGRAMMABLE 7 CHANNEL ENCODER	SO-16
NE5050	POWER LINE MODEM	SO-20
NE5090	ADDRESSABLE RELAY DRIVER	SOL-16
NE5170	OCTAL LINE DRIVER	PLCC-28
NE5180	OCTAL LINE RECEIVERS	PLCC-28
NE5181	OCTAL DIFF LINE RECEIVER	PLCC-28
NE5204	HI FREQ AMP DC TO 350MHZ	SO-8
NE5205	HI FREQ AMP DC TO 550MHZ	SO-8
NE5209	WIDEBAND VARIABLE GAIN AMP	SO-16
NE521	HIGH SPEED DUAL DIFF COMP	SO-14
NE5210	280MHZ TRANSIMPEDANCE AMP	SO-14
NE5211	180MHZ TRANSIMPEDANCE AMP	SO-14
NE5212A	FIBER OPTIC TRANSIMPEDENCE AMP	SO-8
NE5214	POST AMP WITH LINK STATUS INDI	SO-20
NE5217	POST AMP WITH LINK STATUS INDI	SO-20
NE522	HIGH SPEED DUAL DIFF COMP	SO-14
NE5224	POST AMP-100K ECL DIF OUTPUT	SO-16
NE5225	POST AMP-10K ECL DIF OUTPUT	SO-16
NE5230	LOW VOLTAGE OP AMP MICRO MINI	SO-8
NE5234	MATCHED QUAD HI-PERFORMANCE OP AMP	SO-14
NE527	HIGH SPEED COMPARATOR	SO-14
NE529	HIGH SPEED COMPARATOR	SO-14
NE532	DUAL OP AMP	SO-8
NE5512	DUAL OP AMP	SO-8
NE5514	QUAD OP AMP	SOL-16
NE5517	HP DUAL TRANSCON AMP	SO-16
NE5521	LVDT SIGNAL CONDITIONER	SOL-16
NE5532	DUAL LOW NOISE OP AMP-MICRO MINI	SOL-16
NE5534	OP AMP	SO-8
NE5534A	LOW NOISE OP AMP-MICRO	SO-8

SMD Product Listing

NE5537	SAMPLE-AND-HOLD AMPLIFIER	SO-14
NE5539	FAST OP AMP	SO-14
NE555	TIMER	SO-8
NE556	DUAL TIMER	SO-14
NE5561	S.M.P.S. CONTROL CIRCUIT	SO-8
NE5562	S.M.P.S.	SO-20
NE5568	S.M.P.S.	SO-8
NE5570	BRUSHLESS DC MOTOR CONTROLLER	SO-24
NE558	QUAD TIMER	SOL-16
NE5592	DUAL VIDEO AMPLIFIER	SO-14
NE564	HIGH FREQUENCY PHASE LOCKED LOOP	SO-16
NE566	FUNCTION GENERATOR	SO-8
NE567	TONE DECODER MICRO	SO-8
NE568	150MHZ PHASE LOCKED LOOP	SO-20
NE570	COMPANDOR-MICRO MINI PKG	SOL-16
NE571	COMPANDOR	SOL-16
NE572	PROGRAMMABLE COMPANDOR	SOL-16
NE575	LOW VOLTAGE COMPANDOR	SO-20
NE575	LOW VOLTAGE COMPANDOR SSOP	SO-20
NE5750	AUDIO PROCESS-COMPANDOR/AMP SEC	SO-24
NE5751	AUDIO PROCESS-FILTER/CTRL SEC	SO-28
NE576	LOW POWER COMPANDOR	SO-14
NE577	LOW POWER COMPANDOR W/PRG ODB	SO-14
NE578	LOW POWER COMPANDOR W/PRG ODB	SO-16
NE587	7 SEGMENT LED DRIVER (ANODE)	SO-20
NE5900	CALL PROGRESS DECODER	SOL-16
NE592	VIDEO AMPLIFIER	SO-14
NE592	VIDEO AMPLIFIER	SO-8
NE592H	HIGH GAIN VIDEO AMPLIFIER	SO-8
NE594	VACUUM FLUORESCENT DISPLAY DRIVER	SO-20
NE602	DOUBLE BAL MIXER/OSCILLATOR	SO-8
NE602A	DOUBLE BAL MIXER/OSCILLATOR	SO-8
NE604A	HI PERF FM IF	SO-16
NE605	HI PERF FM IF SYSTEM	SO-20
NE605	HI PERF FM IF SYSTEM SSOP	SO-20
NE606	LOW POWER HI PERF FM IF SYSTEM	SO-20
NE606	LOW POWER HI PERF FM IF SYSTEM SSOP	SO-20
NE612	DOUBLE BAL MIXER/OSCILLATOR	SO-8
NE612A	DOUBLE BAL MIXER/OSCILLATOR	SO-8
NE614A	LOW POWER FM IF SYSTEM	SO-16
NE615	HI PERF FM IF SYSTEM	SO-20
NE615	HI PERF FM IF SYSTEM SSOP	SO-20
NE8392A	ETHERNET COAXIAL TRANSCEIVER	PLCC-28
NE86C92	10 BASE-T TRANSCEIVER	SO-28
NE86950B	ETHERNET CONTROLLER	PLCC-84
N74ALS00A	QUAD 2-INPUT POS. NAND GATE	SO-14
N74ALS02	QUAD 2-INPUT POSITIVE NOR GATE	SO-14
N74ALS04B	HEX INVERTER	SO-14
N74ALS08	QUAD 2-INPUT POSITIVE AND GATE	SO-14
N74ALS10A	TRIPLE 3-INPUT POS. NAND GATE	SO-14
N74ALS109A	DUAL JK FLIP/FLOP	SO-16
N74ALS11A	TRIPLE 3-INPUT POS. AND GATE	SO-14

SMD Product Listing

N74ALS139	DUAL 1-OF-4 DECODER/DEMULTIPLE	SO-16
N74ALS151	SINGLE 8-TO-1 MUX	SO-16
N74ALS153	DUAL 4-TO-1 MUX	SO-16
N74ALS157	QUAD 2-INPUT MULTIPLEXER NINV	SO-16
N74ALS158	QUAD 2-INPUT MULTIPLEXER INV	SO-16
N74ALS161B	4-BIT BINARY COUNTER	SO-16
N74ALS163B	4-BIT BINARY COUNTER	SO-16
N74ALS164	8-BIT SERIAL IN/PARALLEL OUT SH	SO-14
N74ALS174	HEX D-TYPE FLIP/FLOP WITH CLEAR	SO-16
N74ALS175	QUAD D-TYPE EDGE TRIGGERED FLIP/FLOP	SO-16
N74ALS20A	DUAL 4-INPUT POS. NAND GATE	SO-14
N74ALS240A	OCTAL BUFFER/LINE DRIVER INV 3-STATE	SO-20
N74ALS240A-1	OCTAL BUFFER/LINE DRIVER INV 3-STATE	SO-20
N74ALS241A	OCTAL 3-STATE BUFFER	SO-20
N74ALS241A-1	OCTAL 3-STATE BUFFER	SO-20
N74ALS244A	OCT BUFFER/LINE DRIVER NINV 3-STATE	SO-20
N74ALS244A-1	OCT BUFFER/LINE DRIVER NINV 3-STATE	SO-20
N74ALS245A	OCTAL BUS TRANSCEIVER 3-STATE	SO-20
N74ALS245A-1	OCTAL BUS TRANSCEIVER 3-STATE	SO-20
N74ALS253	DUAL 4-TO-1 DATA SELECTOR MUX	SO-16
N74ALS257	QUAD 2-INPUT MULTIPLEXER	SO-16
N74ALS258	QUAD 2-TO-1 MUX 3-STATE	SO-16
N74ALS27	TRIPLE 3-INPUT POSITIVE NOR GATE	SO-14
N74ALS273	OCTAL D-TYPE FLIP/FLOP	SO-20
N74ALS30A	8-BIT NAND GATE	SO-14
N74ALS32	QUAD 2-INPUT POSITIVE OR GATE	SO-14
N74ALS373	OCTAL TRANSPARENT LATCH 3-STATE	SO-20
N74ALS374	OCTAL D FLIP/FLOP 3-STATE	SO-20
N74ALS377	OCTAL D-TYPE FLIP/FLOP W/ ENABLE	SO-20
N74ALS38A	QUAD 2-INPUT POSITIVE NAND BUFFER	SO-14
N74ALS563A	OCT D TRANSPARENT LATCH 3-STATE	SO-20
N74ALS564A	OCT D EDGE-TRIGGED LATCH 3-STATE	SO-20
N74ALS573B	OCTAL D TRANS LATCH 3-STATE	SO-20
N74ALS574A	OCTAL D FLIP/FLOP 3-STATE	SO-20
N74ALS620A-1	OCTAL BUS TRANSCEIVER INV 3-STATE	SO-20
N74ALS623A-1	OCTAL BUS TRANSCEIVER NINV 3-STATE	SO-20
N74ALS645A	OCTAL BUS TRANSCEIVER 3-STATE	SO-20
N74ALS645A-1	OCTAL BUS TRANSCEIVER 3-STATE	SO-20
N74ALS646	OCTAL BUS TRANSCEIVER/REG NINV	SO-24
N74ALS646-1	OCTAL BUS TRANSCEIVER/REG NINV	SO-24
N74ALS648	OCTAL BUS TRANSCEIVER/REG INV 3-STATE	SO-24
N74ALS648-1	OCTAL BUS TRANSCEIVER/REG INV	SO-24
N74ALS652	TRANSCEIVER/REGISTER NINV 3-STATE	SO-24
N74ALS652-1	OCTAL TRANSCEIVER/REG, NON-INV 3-STATE	SO-24
N74ALS74A	DUAL D-TYPE FLIP/FLOP	SO-14
N74ALS86	QUAD 2-INPUT EXCLUSIVE-OR GATE	SO-14
N74F00	QUAD 2-INPUT NAND GATE	SO-14
N74F02	QUAD 2-INPUT NOR GATE	SO-14
N74F04	HEX INVERTER	SO-14
N74F06	HEX INV BUFFER/DRIVER (OC)	SO-14
N74F07	HEX INV BUFFER/DRIVER (OC)	SO-14
N74F08	QUAD 2-INPUT AND GATE	SO-14

SMD Product Listing

N74F10	TRIPLE 3-INPUT NAND GATE	SO-14
N74F109	DUAL J-K POS EDGE FLIP/FLOP	SO-16
N74F11	TRIPLE 3-INPUT AND GATE	SO-14
N74F112	DUAL J-K NEG EDGE FLIP/FLOP	SO-16
N74F113	DUAL J-K NEG EDGE FLIP/FLOP	SO-14
N74F114	DUAL J-K NEG EDGE FLIP/FLOP W/RESET	SO-14
N74F1240	OCTAL 3-STATE BUFFER	SO-20
N74F1241	OCTAL BUS LINE DRIVER	SO-20
N74F1242	QUAD BUS TRANSCEIVER	SO-14
N74F1243	QUAD BUS TRANSCEIVER	SO-14
N74F1244	OCTAL BUS/LINE DRIVER	SO-20
N74F1245	OCTAL TRANSCEIVER 3-STATE	SO-20
N74F125	QUAD 3-STATE BUS BUFFER	SO-14
N74F126	QUAD 3-STATE BUS BUFFER	SO-14
N74F13	DUAL NAND SCHMITT TRIGGER	SO-14
N74F132	QUAD SCHMITT TRIGGER	SO-14
N74F133	13-INPUT NAND GATE	SO-16
N74F138	1-OF-8 DECODER/DEMUX	SO-16
N74F139	DUAL 2-TO-10-OF-4 DECODER/DEMUX	SO-16
N74F14	HEX SCHMITT TRIGGER	SO-14
N74F148	8-TO-3 PRIORITY ENCODER	SO-16
N74F151	8-TO-1 MUX	SO-16
N74F151A	8-TO-1 MUX	SO-16
N74F153	DUAL 4-INPUT MULTIPLEXER	SO-16
N74F154	4-TO-16 DECODER/DEMUX	SO-24
N74F157	QUAD 2-IN DATA SELECTOR INV	SO-16
N74F157A	QUAD 2-IN DATA SELECTOR INV	SO-16
N74F158	QUAD 2-IN MULTIPLEXER NINV	SO-16
N74F158A	QUAD 2-INPUT MULTIPLEXER	SO-16
N74F160A	SYNC. 4-BIT DECADE COUNTER	SO-16
N74F1604	DUAL 8-BIT LATCH 3-STATE	SO-28
N74F161A	SYNC. 4-BIT BINARY COUNTER	SO-16
N74F162A	SYNC. 4-BIT DECADE COUNTER	SO-16
N74F163A	SYNC. 4-BIT BINARY COUNTER	SO-16
N74F164	8-BIT SIPO SHIFT REGISTER	SO-14
N74F166	8-BIT SHIFT REGISTER	SO-16
N74F168	SYN DECADE UP/DOWN COUNTER	SO-16
N74F169	SYN BINARY UP/DOWN COUNTER	SO-16
N74F173	QUAD 3-STATE D-TYPE FLIP/FLOP	SO-16
N74F174	HEX D FLIP/FLOP WITH CLEAR	SO-16
N74F175	QUAD D-TYPE FLIP/FLOP	SO-16
N74F175A	QUAD D-TYPE FLIP/FLOP	SO-16
N74F1762	MEM ADDRESS MULTIPLEXER	PLCC-44
N74F1763	1MBIT INTELLIGENT DRAM CNTRLLR	PLCC-44
N74F1764	DUAL PORT RAM CONTROLLER	PLCC-44
N74F1764-1	DUAL PORT RAM CONTROLLER	PLCC-44
N74F1765	DUAL PORT RAM CONTROLLER	PLCC-44
N74F1765-1	DUAL PORT RAM CONTROLLER	PLCC-44
N74F1766	BURST MODE DRAM CONTROLLER	PLCC-44
N74F1779	8-BIT COUNTER	SOL-16
N74F1804	HEX 2-INPUT NAND DRIVER	SO-20
N74F1805	HEX 2-INPUT NOR DRIVER	SO-20

SMD Product Listing

N74F1808	HEX 2-INPUT AND DRIVER	SO-20
N74F181	4-BIT ARITHMETIC LOGIC UNIT	SO-24
N74F182	FAST CARRY LOOKAHEAD GENERATOR	SO-16
N74F1832	HEX 2-INPUT OR DRIVER	SO-20
N74F189A	64-BIT RANDOM ACCESS MEMORY, INV 3-STATE	SO-16
N74F190	DECADE UP/DOWN COUNTER	SO-16
N74F191	BINARY UP/DOWN COUNTER	SO-16
N74F192	DECADE UP/DOWN COUNTER	SO-16
N74F193	4-BIT BINARY UP/DOWN COUNTER	SO-16
N74F194	4-BIT SHIFT REGISTER	SO-16
N74F195	4-BIT PARALLEL ACC. SHIFT REG.	SO-16
N74F198	8-BIT SHIFT REGISTER	SO-24
N74F199	8-BIT SHIFT REGISTER	SO-24
N74F20	DUAL 4-INPUT NAND GATE	SO-14
N74F219A	64-BIT RANDOM ACCESS MEMORY, INV 3-STATE	SO-16
N74F2240	OCTAL BUS DRIVER 30Ω OUTPUT	SO-20
N74F2241	OCTAL BUS DRIVER 30Ω OUTPUT	SO-20
N74F2244	OCTAL BUS DRIVER 30Ω DRIVER	SO-20
N74F240	OCTAL 3-STATE BUFFER	SO-20
N74F240A	OCTAL 3-STATE BUFFER	SO-20
N74F241	OCTAL BUFFER 3-STATE	SO-20
N74F241A	OCTAL BUS/LINE DRIVER	SO-20
N74F242	QUAD BUS TRANSCEIVER	SO-14
N74F243	QUAD BUS TRANSCEIVER	SO-14
N74F244	OCTAL BUFFER 3-STATE	SO-20
N74F244A	OCTAL BUS/LINE DRIVER	SO-20
N74F245	OCTAL BUS TRANSCEIVER	SO-20
N74F251	8-TO-1 MUX 3-STATE	SO-16
N74F251A	8-TO-1 MUX 3-STATE	SO-16
N74F253	DUAL 4-INPUT MULTIPLEXER 3-STATE	SO-16
N74F256	DUAL 4-BIT ADDRESSABLE LATCH	SO-16
N74F257	QUAD 2-TO-1 MUX 3-STATE	SO-16
N74F257A	QUAD 2-TO-1 MUX 3-STATE	SO-16
N74F258	QUAD 2-TO-1 MUX 3-STATE	SO-16
N74F258A	QUAD 2-TO-1 MUX 3-STATE	SO-16
N74F259	8-BIT ADDRESSABLE LATCH	SO-16
N74F260	DUAL 5-INPUT NOR GATE	SO-14
N74F269	8-BIT BIDIRECTIONAL BINARY COUNTER	SO-24
N74F27	TRIPLE 3-INPUT NOR GATE	SO-14
N74F273	OCTAL D-TYPE FLIP/FLOP	SO-20
N74F280A	9-BIT ODD/EVEN PARITY GEN CHECKER	SO-14
N74F280B	9-BIT ODD/EVEN PARITY GEN CHECKER	SO-14
N74F283	4-BIT ADDER	SO-16
N74F2952	OCTAL REGISTER TRANSCEIVER, NINV 3-STATE	SO-24
N74F2953	OCTAL REGISTER TRANSCEIVER, INV 3-STATE	SO-24
N74F298	QUAD-2-INPUT MUX W/ STORAGE	SO-16
N74F299	OCTAL SHIFT/STORAGE REGISTER 3-STATE	SO-20
N74F30	8-BIT NAND GATE	SO-14
N74F30240	30Ω TRAN LINE/B DRVR INV	SO-24
N74F30244	30Ω TRANSM LNE/B DRVR NINV	SO-24
N74F3037	QUAD 2-IN NAND TRANS LINE DRVR	SOL-16
N74F3038	30-OHM TRANS LINE DRIVER	SOL-16

SMD Product Listing

N74F3040	DUAL 4-IN NAND TRANS LINE DRIVER	SOL-16
N74F32	QUAD 2-INPUT OR GATE	SO-14
N74F322	OCT SHIFT/STORAGE REGISTER 3-STATE	SO-20
N74F323	OCTAL SHIFT/STORAGE REGISTER 3-STATE	SO-20
N74F350	4-BIT SHIFT W/ 3-STATE OUTPUT	SO-16
N74F352	DUAL 4-INPUT MULTI (INVERT) 153	SO-16
N74F353	DUAL 4-INPUT MULTI (INVERT) 253	SO-16
N74F365	HEX BUFFER W/COMMON ENABLE, 3-STATE	SO-16
N74F366	HEX INVERT W/COMMON ENABLE, 3-STATE	SO-16
N74F367	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE	SO-16
N74F368	HEX INVERT, 4-BIT & 2-BIT, 3-STATE	SO-16
N74F37	QUAD 2-INPUT NAND BUFFER	SO-14
N74F373	OCTAL 3-STATE LATCH	SO-20
N74F374	OCTAL D FLIP/FLOP 3-STATE	SO-20
N74F377	OCTAL D TYPE FLIP/FLOP WITH ENABLE	SO-20
N74F378	HEX D FLIP/FLOP WITH ENABLE	SO-16
N74F379	QUAD D FLIP/FLOP WITH ENABLE	SO-16
N74F379A	QUAD D FLIP/FLOP WITH ENABLE	SO-16
N74F38	QUAD 2-INPUT NAND BUFFER O/C	SO-14
N74F381	4-BIT ARITHMETIC LOGIC UNIT	SO-20
N74F382	4-BIT ARITHMETIC LOGIC UNIT	SO-20
N74F385	QUAD SERIAL ADDER/SUBTRACTOR	SO-20
N74F3893	QUAD FUTUREBUS TRANSCEIVER	PLCC-20
N74F393	DUAL BINARY RIPPLE COUNTER	SO-14
N74F395	4-BIT CASCADABLE SHIFT REGISTER 3-STATE	SO-16
N74F398	4-BIT FLIP/FLOP TRUE AND COMP OUTPUT	SO-20
N74F399	4-BIT FLIP/FLOP TRUE AND COMP OUTPUT	SO-16
N74F40	DUAL 4-INPUT NAND BUFFER	SO-14
N74F412	OCTAL BUFFERED LATCH	SO-24
N74F432	OCTAL BUFFERED LATCH	SO-24
N74F455	OCTAL INV BUFFER W/PARITY	SO-24
N74F456	OCTAL NON-INV BUFFER W/ PARITY	SO-24
N74F50109	METASTABLE IMMUNE D & N PKGS	SO-16
N74F50728	METASTABLE IMMUNE D & N PKGS	SO-14
N74F50729	METASTABLE IMMUNE D & N PKGS	SO-14
N74F5074	METASTABLE IMMUNE D & N PKGS	SO-14
N74F51	DUAL 2-WIDE 2INPUT AOI GATE	SO-14
N74F521	8-BIT IDENT COMPARATOR	SO-20
N74F524	8-BIT REGISTER COMPARATOR	SO-20
N74F5300	FIBER OPTICS LED DRIVER	SO-8
N74F5302	FIBER OPTIC DUAL LED DRIVER	SO-14
N74F533	OCTAL 3-STATE LATCH INVERTING	SO-20
N74F534	OCTAL D FLIP/FLOP 3-STATE INVERTING	SO-20
N74F537	1-OF-10 DECODER 3-STATE	SO-20
N74F538	1-OF-8 DECODER 3-STATE	SO-20
N74F539	DUAL 1-OF-4 DECODER 3-STATE	SO-20
N74F540	OCTAL 3-STATE DRIVER/BUFFER	SO-20
N74F541	OCTAL 3-STATE DRIVER/BUFFER	SO-20
N74F543	OCTAL TRANSCEIVER BIDIRECTIONAL LATCH	SO-24
N74F544	OCTAL TRANSCEIVER BIDIRECTIONAL LATCH	SO-24
N74F545	OCTAL BUS TRANSCEIVER	SO-20
N74F547	OCTAL DECODER/MUX W/ LATCHES	SO-20

SMD Product Listing

N74F548	OCT DECODER/MUX W/ ACKNOWLEDGE	SO-20
N74F552	OCT REG TRANSCEIVER W/PARITY/ST FLAGS	SO-28
N74F563	OCTAL D-TYPE LATCH	SO-20
N74F564	OCTAL D FLIP/FLOP	SO-20
N74F568	4-BIT BCD DECADE UP/DOWN COUNTER	SO-20
N74F569	4-BIT BINARY UP/DOWN COUNTER	SO-20
N74F573	OCTAL D-TYPE LATCH	SO-20
N74F574	OCTAL D FLIP/FLOP	SO-20
N74F579	8-BIT COUNTER COMMON I/O, 3-STATE	SO-20
N74F582	4-BIT BCD ALU	SO-24
N74F583	4-BIT BCD ADDER	SOL-16
N74F588	GPIB COMPATIBLE OCTAL TRANSCEIVER	SO-20
N74F595	8-BIT SHIFT REGISTER W/ LATCH	SO-16
N74F597	8-BIT SHIFT REGISTER W/ LATCH	SO-16
N74F604	DUAL 8-BIT LATCH 3-STATE	SO-28
N74F605	DUAL 8-BIT LATCH O/C	SO-28
N74F620	OCTAL BUS TRANSCEIVER 3-STATE	SO-20
N74F621	OCTAL BUS TRANSCEIVER O/C	SO-20
N74F622	OCTAL BUS TRANSCEIVER O/C	SO-20
N74F623	OCTAL BUS TRANSCEIVER 3-STATE	SO-20
N74F64	AND/OR-INVERT GATE	SO-14
N74F640	OCTAL BUS TRANSCEIVER	SO-20
N74F641	OCTAL BUS TRANSCEIVER (O/C)	SO-20
N74F642	OCTAL BUS TRANSCEIVER	SO-20
N74F646	OCTAL BUS TRANSCEIVER AND REGISTER	SO-24
N74F646A	OCTAL BUS TRANSCEIVER 1 REG NINV	SO-24
N74F647	OCTAL BUS TRANSCEIVER AND REGISTER	SO-24
N74F648	OCTAL BUS TRANSCEIVER AND REGISTER	SO-24
N74F648A	OCTAL BUS TRANCEIVER AND REGIS	SO-24
N74F649	OCTAL BUS TRANSCEIVER AND REGISTER	SO-24
N74F651A	OCTAL BUS TRANSCEIVER AND REG INV 3-STATE	SO-24
N74F652A	OCTAL BUS TRANSCEIVER AND REG NINV 3-STATE	SO-24
N74F655A	OCTAL INV BUFFER W/PARITY	SO-24
N74F656A	OCTAL NON-INV BUFFER W/PARITY	SO-24
N74F657	OCTAL BUFFER W/PARITY GEN/CHEK	SO-24
N74F670	4 x 4 REGISTER FILE	SOL-16
N74F674	16-BIT SHIFT REGISTER	SO-24
N74F676	16-BIT SHIFT REGISTER SIPO	SO-24
N74F711-1	QUINT 2-INPUT MUX 30Ω TERM	SO-20
N74F711A	QUINT 2-INPUT MUX 30Ω TERM	SO-20
N74F712-1	QUINT 3-INPUT MUX 30Ω TERM	SO-24
N74F712A	QUINT 3-INPUT MUX 30Ω TERM	SO-24
N74F723-1	QUAD 3-INPUT MUX 30Ω TERM	SO-24
N74F723A	QUAD 2-INPUT MULTIPLEXER	SO-24
N74F725-1	QUAD 3-INPUT MUX 30Ω TERM	SO-24
N74F725A	QUAD 3-INPUT MULTIPLEXER	SO-24
N74F732	QUAD DATA MULTIPLEXER, NINV	SO-20
N74F733	QUAD DATA MULTIPLEXER, INV	SO-20
N74F74	DUAL D-TYPE EDGE TRIGGER FLIP/FLOP	SO-14
N74F755	OCT MAILBOX REF W/READY FLAG	SO-24
N74F756	OCT BUS LINE DRIVER INV (O.C.)	SO-20
N74F757	OCT BUS LINE DRIVER, NINV (O.C.)	SO-20

SMD Product Listing

N74F760	OCT BUS LINE DRIVER, INV	SO-20
N74F764	DUAL PORT RAM CONTROLLER	PLCC-44
N74F764-1	DRAM DUAL-PORT CONTROLLER W/LATCH	PLCC-44
N74F765	DUAL PORT RAM CONTROLLER W/O LATCH	PLCC-44
N74F765-1	DRAM DUAL-PORTED CONTROLLER	PLCC-44
N74F776	OCT BIDIRECT DI-BUS TRANSCEIVER (OC)	PLCC-28
N74F779	8-BIT COUNTER	SOL-16
N74F786	4-INPUT ASYNCH BUS ARBITER	SO-16
N74F804	HEX 2-INPUT NAND DRIVER	SO-20
N74F805	HEX 2-INPUT NOR DRIVER	SO-20
N74F807	OCT SHIFT/COUNT REG TRANSCEIVER ADDER	PLCC-28
N74F807	OCTAL SHIFT/COUNT REG TRANSCEIVER ADDER	SO-28
N74F808	HEX 2-INPUT AND DRIVER	SO-20
N74F821	10-BIT REGISTER, NINV, 3-STATE	SO-24
N74F822	10-BIT REGISTER, INV, 3-STATE	SO-24
N74F823	9-BIT REGISTER NINV, 3-STATE	SO-24
N74F824	9-BIT REGISTER INV, 3-STATE	SO-24
N74F825	8-BIT REGISTER NINV, 3-STATE	SO-24
N74F826	8-BIT REGISTER, INV, 3-STATE	SO-24
N74F827	10-BIT BUFFER/DRIVER NINV, 3-STATE	SO-24
N74F828	10-BIT BUFFER/DRIVER INV, 3-STATE	SO-24
N74F83	4-BIT BINARY FULL ADDER RIPPLE	SO-16
N74F832	HEX 2-INPUT OR DRIVER	SO-20
N74F835	LATCHED OCT SHIFT REGISTER 2=1 MUX	SO-24
N74F841	10-BIT LATCH NON-INVERTING	SO-24
N74F842	10-BIT LATCH INVERTING, 3-STATE	SO-24
N74F843	9-BIT LATCH, NINV, 3-STATE	SO-24
N74F844	9-BIT LATCH INVERTING, 3-STATE	SO-24
N74F845	8-BIT LATCH, NINV, 3-STATE	SO-24
N74F846	8-BIT LATCH INVERTING 3-STATE	SO-24
N74F85	4-BIT MAGNITUDE COMPARATOR	SOL-16
N74F86	QUAD EXCL OR GATE	SO-14
N74F861	10-BIT BUS TRANCEIVER NINV, 3-STATE	SO-24
N74F862	10-BIT BUS TRANCEIVER INV, 3-STATE	SO-24
N74F863	9-BIT BUS TRANCEIVER NINV, 3-STATE	SO-24
N74F864	9-BIT BUS TRANCEIVER INV, 3-STATE	SO-24
N74F881	ALU FUNCTION GENERATOR	SO-24
N74F882	32-BIT CARRY LOOK-AHEAD GENERATOR	SO-24
N74F8960	OCTAL LATCHED BIDIRECTIONAL FUTUREBUS	PLCC-28
N74F8961	OCT BIDIRECTIONAL FUTUREBUS XCVR NINV OC	PLCC-28
N74F8962	9-BIT LATCHED BIDIRECT FUTUREBUS INV	PLCC-44
N74F8963	9-BIT LATCHED BIDIRECT FUTUREBUS NON-INV	PLCC-44
N74F8965	9-BIT LATCHED BTL TRANSCEIVER FUTUREBUS INV	PLCC-44
N74F8966	9-BIT LATCHED BTL TRANSCEIVER FUTUREBUS INV	PLCC-44
N74LS00	QUAD 2-INPUT NAND GATE	SO-14
N74LS01	QUAD 2-INPUT NAND GATE (OC)	SO-14
N74LS02	QUAD 2-INPUT NOR GATE	SO-14
N74LS04	HEX INVERTER	SO-14
N74LS05	HEX INVERTER (OC)	SO-14
N74LS08	QUAD 2-INPUT AND GATE	SO-14
N74LS09	QUAD 2-INPUT AND GATE (OC)	SO-14
N74LS10	TRIPLE 3-INPUT NAND GATE	SO-14

SMD Product Listing

N74LS107	DUAL J-K MASTER-SLAVE FLIP/FLOP	SO-14
N74LS109A	DUAL J-K POSITIVE EDGE FLIP/FLOP	SO-16
N74LS11	TRIPLE 3-INPUT AND GATE	SO-14
N74LS112	DUAL J-K NEGATIVE EDGE FLIP/FLOP	SO-16
N74LS125A	QUAD 3-STATE BUS BUFFER	SO-14
N74LS126A	QUAD 3-STATE BUS BUFFER	SO-14
N74LS13	DUAL NAND SCHMITT TRIGGER	SO-14
N74LS132	QUAD SCHMITT TRIGGER	SO-14
N74LS136	QUAD EXCLUSIVE OR (OC)	SO-14
N74LS138	3-TO-1-OF-8 DECODER/DEMUX	SO-16
N74LS139	DUAL 2-TO-10-OF-4 DECODER/DEMUX	SO-16
N74LS14	HEX SCHMITT TRIGGER	SO-14
N74LS151	SINGLE 8-TO-1 MUX	SO-16
N74LS153	DUAL 4-TO-1 MUX	SO-16
N74LS154	4-TO-16 DECODER/DEMUX	SO-24
N74LS155	DUAL 2-TO-4 DECODER/DEMUX	SO-16
N74LS156	DUAL 2-TO-4 DECODER/DEMUX (OC)	SO-16
N74LS157	QUAD 2-IN DATA SELECTOR (NI)	SO-16
N74LS158	QUAD 2-IN DATA SELECTOR (NI)	SO-16
N74LS161A	SYNC. 4-BIT BINARY COUNTER	SO-16
N74LS163A	SYNC. 4-BIT BINARY COUNTER	SO-16
N74LS164	8-BIT SIPO S/R	SO-14
N74LS169A	SYN BINARY U/D COUNTER	SO-16
N74LS173	QUAD 3-STATE D-TYPE FLIP/FLOP	SO-16
N74LS174	HEX D-TYPE FLIP/FLOP WITH CLEAR	SO-16
N74LS175	QUAD D-TYPE EDGE TRIGGERED FLIP/FLOP	SO-16
N74LS191	SYNC BINARY UP/DOWN COUNTER	SOL-16
N74LS193	4-BIT BINARY UP/DOWN COUNTER	SOL-16
N74LS20	DUAL 4-INPUT NAND GATE	SO-14
N74LS21	DUAL 4-INPUT AND GATE	SO-14
N74LS240	OCTAL 3-STATE BUFFER	SO-20
N74LS241	OCTAL 3-STATE BUFFER	SO-20
N74LS243	QUAD BUS TRANSCEIVER	SO-14
N74LS244	OCTAL 3-STATE DRIVER	SO-20
N74LS245	OCTAL TRANSCEIVER	SO-20
N74LS253	DUAL 4-TO-1 DATA SELECTOR/MUX	SO-16
N74LS256	DUAL 4-BIT ADDRESSABLE LATCH	SO-16
N74LS257A	QUAD 2-TO-1 MUX 3-STATE	SO-16
N74LS258A	QUAD 2-TO-1 MUX 3-STATE	SO-16
N74LS259	8-BIT ADDRESSABLE LATCH	SO-16
N74LS26	QUAD 2-INPUT NAND GATE (OC)	SO-14
N74LS260	DUAL 5-INPUT NOR GATE	SO-14
N74LS266	QUAD EXCLUSIVE OR, O/C	SO-14
N74LS273	OCTAL D-TYPE FLIP/FLOP	SO-20
N74LS283	4-BIT ADDER	SO-16
N74LS290	DECADE COUNTER	SO-14
N74LS30	8-INPUT NAND GATE	SO-14
N74LS32	QUAD 2-INPUT OR GATE	SO-14
N74LS33	QUAD 2-INPUT NOR BUFFER	SO-14
N74LS353	DUAL 4-TO-1 MUX, 3-STATE, INV	SO-16
N74LS365A	HEX BUFFER W/COMMON ENABLE, 3-STATE	SO-16
N74LS367A	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE	SO-16

SMD Product Listing

N74LS368A	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE	SO-16
N74LS37	QUAD 2-INPUT NAND BUFFER	SO-14
N74LS373	OCTAL 3-STATE LATCH	SO-20
N74LS374	OCTAL D FLIP/FLOP, 3-STATE	SO-20
N74LS377	OCTAL D-TYPE FLIP/FLOP WITH ENABLE	SO-20
N74LS38	QUAD 2-INPUT NAND BUFFER (OC)	SO-14
N74LS390	DUAL DECADE RIPPLE COUNTER	SO-16
N74LS393	DUAL BINARY RIPPLE COUNTER	SO-14
N74LS51	DUAL 2-WIDE 2-INPUT AOI	SO-14
N74LS533	INV OCTAL D-LATCH 3-STATE	SO-20
N74LS534	OCTAL CLOCKED LATCH INV	SO-20
N74LS540	OCTAL 3-STATE DRIVER/BUFFER	SO-20
N74LS541	OCTAL 3-STATE DRIVER/BUFFER	SO-20
N74LS640	OUTPUT BUS TRANSCEIVER	SO-20
N74LS640-1	OUTPUT BUS TRANSCEIVER	SO-20
N74LS641	OCTAL BUS TRANSCEIVER	SO-20
N74LS641-1	OCTAL BUS TRANSCEIVER	SO-20
N74LS642-1	OCTAL BUS TRANSCEIVER	SO-20
N74LS645	OCTAL BUS TRANSCEIVER	SO-20
N74LS645-1	OCTAL BUS TRANSCEIVER	SO-20
N74LS670	4 x 4 REGISTER FILE, 3-STATE	SOL-16
N74LS74A	DUAL D-TYPE EDGE-TRIGGERED FLIP/FLOP	SO-14
N74LS83A	4-BIT FULL ADDER	SO-16
N74LS85	4-BIT MAGNITUDE COMPARATOR	SO-16
N74LS86	QUAD 2-INPUT EXCLUSIVE OR GATE	SO-14
N74LS92	DIVIDE-BY-12 COUNTER	SO-14
N74LS93	4-BIT BINARY COUNTER	SO-14
N74S00	QUAD 2-INPUT NAND GATE	SO-14
N74S02	QUAD 2-INPUT NOR GATE	SO-14
N74S03	QUAD 2-INPUT NAND GATE (OC)	SO-14
N74S04	HEX INVERTER	SO-14
N74S05	HEX INVERTER (OC)	SO-14
N74S08	QUAD 2-INPUT AND GATE	SO-14
N74S10	TRIPLE 3-INPUT NAND GATE	SO-14
N74S11	TRIPLE 3-INPUT AND GATE	SO-14
N74S133	13-INPUT NAND GATE	SO-16
N74S138	3-TO-8 DECODER/DEMUX	SOL-16
N74S139	DUAL 2-TO-10-OF-4 DECODER/DEMUX	SOL-16
N74S151	8-TO-1 MUX	SO-16
N74S153	DUAL 4-TO-1 MUX	SO-16
N74S157	QUAD 2-TO-1 DATA SELECT/MUX (NINV)	SO-16
N74S158	QUAD 2-TO-1 DATA SELECT/MUX (INV)	SO-16
N74S174	HEX D FLIP/FLOP WITH CLEAR	SO-16
N74S175	QUAD D-TYPE FLIP/FLOP	SO-16
N74S20	DUAL 4-INPUT NAND GATE	SO-14
N74S225	FIFO	SO-20
N74S240	OCTAL 3-STATE BUFFER	SO-20
N74S241	OCTAL 3-STATE BUFFER	SO-20
N74S244	OCTAL 3-STATE DRIVER	SO-20
N74S257	QUAD 2-TO-1 DATA SELECTOR/MUX	SO-16
N74S260	DUAL 5-INPUT NOR GATE	SO-14
N74S273	OCTAL D FLIP/FLOP	SO-20

SMD Product Listing

N74S32	QUAD 2-INPUT OR GATE	SO-14
N74S37	QUAD 2-INPUT NAND BUFFER	SO-14
N74S373	OCTAL 3-STATE LATCH	SO-20
N74S374	OCTAL D-FLIP/FLOP, 3-STATE	SO-20
N74S38	QUAD 2-INPUT NAND BUFFER (OC)	SO-14
N74S51	DUAL 2-WIDE 2-INPUT AOI GATE	SO-14
N74S64	4-2-3-2 INPUT AOI GATE	SO-14
N74S74	DUAL D-TYPE EDGE-TRIGGER FLIP/FLOP	SO-14
N74S85	4-BIT MAGNITUDE COMPARATOR	SO-16
N74S86	QUAD 2-INPUT EXCLUSIVE OR GATE	SO-14
N7400	QUAD 2-INPUT NAND GATE	SO-14
N7405	HEX INVERTER (OC)	SO-14
N7406	HEX INV BUFFER/DRIVER (OC)	SO-14
N7407	HEX BUFFER/DRIVER (OC)	SO-14
N74121	MONOSTABLE MULTIVIBRATOR	SO-14
N74123	RETRIG MONOSTABLE MULTIVIBRATOR	SO-16
N7414	HEX SCHMITT TRIGGER	SO-14
N74145	BCD-TO-DEC DECODER/DRIVER (OC)	SOL-16
N7417	HEX BUFFER/DRIVER (OC)	SO-14
N7438	QUAD 2-INPUT NAND BUFFER (OC)	SO-14
N8T20	BIDI MONOSTABLE (DIFFIN)	SO-16
N8T23	DUAL IBM 360/370 INTF DRIVER	SO-16
N8T98	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE	SO-16
N8X305	8-BIT BIP MICROCONTROLLER	PLCC-68
N82HS195A	16K PROM (4096 x 4) TS 35NS	PLCC-20
N82HS195B	16K PROM (4096 x 4) 35NS	PLCC-20
N82HS321A	32K PROM (4096 x 8) TS 35NS	PLCC-28
N82HS321B	32K PROM (4096 x 8) TS 30NS	PLCC-28
N82LS135	2K PROM (256 x 8) TS 100NS	PLCC-20
N82LS135	2K PROM (256 x 8) TS 100NS	SO-20
N82S123A	256-BIT PROM (32 x 8) TS 25NS	PLCC-20
N82S123A	256-BIT PROM (32 x 8) TS 25NS	SOL-16
N82S126A	1K PROM (256 x 4) OC 30NS	PLCC-20
N82S126A	1K PROM (256 x 4) OC 30NS	SOL-16
N82S129A	1K PROM (256 x 4) TS 27NS	PLCC-20
N82S129A	1K PROM (256 x 4) TS 27NS	SOL-16
N82S130A	2K PROM (512 x 4) OC 33NS	PLCC-20
N82S130A	2K PROM (512 x 4) OC 33NS	SOL-16
N82S131A	2K PROM (512 x 4) TS 30NS	PLCC-20
N82S131A	2K PROM (1512 x 4) TS 30NS	SOL-16
N82S135	2K PROM (256 x 8) TS 45NS	PLCC-20
N82S135	2K PROM (256 x 8) TS 45NS	SO-20
N82S137A	4K PROM (1024 x 4) TS 20P 45NS	PLCC-20
N82S137B	4K PROM (1024 x 4) TS 20P 35NS	PLCC-20
N82S137B	4K PROM (1K x 4) TS 35NS	SO-20
N82S141	4K PROM (512 x 8) TS 60NS	PLCC-28
N82S141A	4K PROM (512 x 8) 45NS	PLCC-28
N82S147A	4K PROM (512 x 8) TS 45NS	PLCC-20
N82S147B	4K PROM (512 x 8) 25NS	PLCC-20
N82S181A	8K PROM (1024 x 8) 55NS	PLCC-28
N82S181C	8K PROM (1024 x 8) TS 35NS	PLCC-28
N82S183	8192-BIT LATCH PROM (1024 x 8) TS	PLCC-28

SMD Product Listing

N82S185A	8K PROM (2048 x 4) TS 50NS	PLCC-20
N82S185B	8K PROM (2048 x 4) TS 45NS	PLCC-20
N82S185C	8K PROM (2048 x 4) TS 30NS	PLCC-20
N82S185C	8K PROM (2048 x 4) TS 30NS	SO-20
N82S19	576-BIT RAM (64 x 9) OC 35NS	PLCC-28
N82S191A	16K PROM (2048 x 8) 55NS	PLCC-28
N82S191C	16K PROM (2048 x 8) 35NS	PLCC-28
N82S212	2304-BIT RAM (256 x 9) TS 35NS	PLCC-28
N82S212A	2304-BIT RAM (256 x 9) TS 35NS	PLCC-28
N82S23A	256-BIT PROM (32 x 8) OC 25NS	PLCC-20
N82S23A	256-BIT PROM (32 x 8) OC 25NS	SOL-16
PCA5000AT	POCSAG PAGER DECODER	SO-28
PCA82C200T	CAN SERIAL BUS INTERFACE VSO40	SOL-16
PCA8582BT	256 x 8 EEPROM I^2C BUS	SOL-16
PCB80C31-5	ORDER SC80C31BCYA44 (33MHZ)	PLCC-68
PCD3310AT	PULSE TONE DIALLER 3:2 M/S	SO-28
PCD3311CT	DTMF/MODEM/MUSICAL GENERATOR	SOL-16
PCD3311T	ORDER PCD3311CTD	SOL-16
PCD3312CT	DTMF/MODEM/MUSICAL GENERATOR	SOL-8
PCD3312T	ORDER PCD3312CTD	SOL-8
PCD3341T	LOW V MC 8K, 256B, I^2C I/O	SO-28
PCD3343T	LOW V UC 3K, 224B, I^2C	SO-28
PCD3344T	LOW VOLTAGE UC DTMF 2K 224BYTE	SO-28
PCD3346T	TELEPHONEY MICRO WITH EEPROM	SO-28
PCD3347T	LV UC DTMF 1.5K 64 BYTES	SO-20
PCD3348T	LV UC 12C 8K 256 BYTES	SO-28
PCD3349T	LV UC DTMF 4K 128 BYTES	SO-28
PCD3360T	PROG TONE GENERATOR	SOL-16
PCD4421T	DTMF DIALLER W/KEYBOARD INTERFACE	SO-20
PCD8582DT	256 x 8 EEPROM I^2C-BUS	SO-8
PCD8584T	PARALLEL-TO-I^2C CONVERTER	SO-20
PCF1252-0T	VOLTAGE DETECTOR 4.75V	SO-8
PCF1252-1T	VOLTAGE DETECTOR 4.55V	SO-8
PCF1252-2T	VOLTAGE DETECTOR 4.25V	SO-8
PCF1252-3T	VOLTAGE DETECTOR 4.05V	SO-8
PCF1252-4T	VOLTAGE DETECTOR 3.75V	SO-8
PCF1252-5T	VOLTAGE DETECTOR 3.55V	SO-8
PCF1252-6T	VOLTAGE DETECTOR 3.20V	SO-8
PCF1252-7T	VOLTAGE DETECTOR 3.05V	SO-8
PCF1252-8T	VOLTAGE DETECTOR 2.75V	SO-8
PCF1252-9T	VOLTAGE DETECTOR 2.55V	SO-8
PCF1303T	LCD BARGRAPH DRIVER	SO-28
PCF2100T	LCD DUPLEX DRIVER (40 SEGMENT)	SO-28
PCF2110T	LCD DUPLEX DRIVER W/LED DRIVE	SO-40
PCF2111T	LCD DUPLEX DRIVER (60 SEGMENT)	SO-40
PCF2112T	32-SEGMENT STATIC LCD DRIVER	SO-40
PCF84C12T	LOW V UC 1K 64B	SO-20
PCF84C121T	UC 256 x 8 RAM 1K ROM 8 x 8 EEPROM	SO-20
PCF84C21T	LOW VOLTAGE UC 2K 64B I^2C	SO-28
PCF84C22T	LV UC 2K 64 BYTES	SO-20
PCF84C230T	UC 64 x 8 RAM 2K ROM W/LCD DRIVER	SO-40
PCF84C41T	LOW V UC 4K 128B 1^2C	SO-28

SMD Product Listing

PCF84C42T	MICRO WITH 4K/64 BYTES	SO-20
PCF84C633T	UC 256 x 8 RAM 8KROM 16BIT TIMER	VSO-56
PCF84C81T	LOW V UC 8K 256B 1^2C	SO-28
PCF84C85T	LOW V UC 8K 256B I^2C 32 I/O	SO-40
PCF84C853T	UC 256 x 8 RAM 8K ROM 16-BIT TIMER	SO-40
PCF8566T	24/48/72/96 SEG LCD DRIVER I^2C	SO-40
PCF8570T	256 x 8 SRAM I^2C	SOL-8
PCF8571T	128 x 8 SRAM I^2C	SOL-8
PCF8573T	CLOCK CALENDAR I^2C	SOL-16
PCF8574AT	I/O EXPANDER I^2C	SOL-16
PCF8574T	I/O EXPANDER I^2C	SOL-16
PCF8576T	40/80/120/160 SEG DRIVER I^2C	VSO-56
PCF8577CT	32/64 SEG DRIVER I^2C	SO-40
PCF8578T	DOT MATRIX LCD DRIVER (R/COLM)	VSO-56
PCF8579T	DOT MATRIX LCD DRIVER (COLUMN)	VSO-56
PCF8581CT	128 x 8 EEPROM I^2C-BUS	SOL-8
PCF8581T	128 x 8 EEPROM I^2C-BUS	SOL-8
PCF8582CT	256 x 8 EEPROM I^2C-BUS	SOL-16
PCF8582ET	256 x 8 EEPROM I^2C BUS	SO-8
PCF8583T	CLOCK CALENDAR W 256 x 8 SRAM I^2C	SOL-8
PCF8591T	8-BIT ADC/DAC I^2C	SOL-16
PHD16N8-5	HIGH SPEED DECODER	PLCC-20
PHD48N22-7	HIGH SPEED DECODER	PLCC-68
PLC18V8ZI	ZERO POWER-40NS IND UNIV PAL	PLCC-20
PLC18V8Z25	ZERO POWER-25NS COM UNIV PAL	PLCC-20
PLC18V8Z35	ZERO POWER-35NS COM UNIV PAL	PLCC-20
PLC415-16	PLD CMOS SEQUENCER TS 16MHZ	PLCC-28
PLC42VA12	CMOS MULTIFUNCTION PLD	PLCC-28
PLHS501	PLD PROG MACRO LOGIC (32 x 72 x 24)	PLCC-52
PLS100	PLD LOGIC ARRAY (16 x 48 x 8) TS	PLCC-28
PLS105	PLD SEQUENCER (16 x 48 x 8) TS 14MHZ	PLCC-28
PLS105A	PLD SEQUENCER (16 x 48 x 8) TS 20MHZ	PLCC-28
PLS153	PLD FPLA (18 x 32 x 10) TS	PLCC-20
PLS153A	PLD FPLA (18 x 32 x 10) TS 30NS	PLCC-20
PLS155	PLD SEQUENCER (16 x 45 x 12) TS 4-BIT	PLCC-20
PLS157	PLD SEQUENCER (16 x 45 x 12) TS 6-BIT	PLCC-20
PLS159A	PLD SEQUENCER (16 x 45 x 12) 18MHZ	PLCC-20
PLS167	PLD FPLA (12 x 48 x 6) 14MHZ	PLCC-28
PLS167A	PLD FPLA (12 x 48 x 6) 20MHZ	PLCC-28
PLS168	PLD FPLS 14MHZ 12 x 48 x 8	PLCC-28
PLS168A	PLD FPLS 20MHZ 12 x 48 x 8	PLCC-28
PLS173	PLD FPLA 30NS 22 x 42 x 10	PLCC-28
PLS179	FIELD PROGRAMMABLE LOGIC SEQUENCER	PLCC-28
PLUS105-45	SEQUENCER (16 x 48 x 8) 45MHZ	PLCC-28
PLUS105-55	SEQUENCER (16 x 48 x 8) 55MHZ	PLCC-28
PLUS153-10	PLA (18 x 32 x 10) TPD 10NS	PLCC-20
PLUS153B	PLD PLA (18 x 32 x 10) TPD 15NS	PLCC-20
PLUS153D	PLD PLA (18 x 32 x 10) TPD 12NS	PLCC-20
PLUS16L8-7	PLD PAL* STYLE DEVICE	PLCC-20
PLUS16L8D	PLD PAL* STYLE DEVICE TPD 10NS	PLCC-20
PLUS16R4-7	PLD PAL* STYLE DEVICE	PLCC-20
PLUS16R4D	PLD PAL* STYLE DEVICE	PLCC-20

SMD Product Listing

PLUS16R6-7	PLD PAL* STYLE DEVICE	PLCC-20
PLUS16R6D	PLD PAL* STYLE DEVICE	PLCC-20
PLUS16R8-7	PLD PAL* STYLE DEVICE	PLCC-20
PLUS16R8D	PLD PAL* STYLE DEVICE	PLCC-20
PLUS173-10	PLA (22 x 32 x 10) TPD 10NS	PLCC-28
PLUS173B	PLD PLA (22 x 32 x 10) TPD 15NS	PLCC-28
PLUS173D	PLD PLA (22 x 32 x 10) TPD 12NS	PLCC-28
PLUS20L8-7	PLD PAL* STYLE DEVICE	PLCC-28
PLUS20L8D	PLD PAL* SYLE DEVICE	PLCC-28
PLUS20R4-7	PLD PAL* STYLE DEVICE	PLCC-28
PLUS20R4D	PLD PAL* STYLE DEVICE	PLCC-28
PLUS20R6-7	PLD PAL* STYLE DEVICE	PLCC-28
PLUS20R6D	PLD PAL* STYLE DEVICE	PLCC-28
PLUS20R8-7	PLD PAL* SYLTE DEVICE	PLCC-28
PLUS20R8D	PLD PAL* STYLE DEVICE	PLCC-28
PLUS405-37	PLD SEQNCR (16 x 64 x 8) TS 37MHZ	PLCC-28
PLUS405-45	PLD SEQNCR (16 x 64 x 8) TS 45MHZ	PLCC-28
PLUS405-55	PLD SEQNCR (16 x 64 x 8) TS 55MHZ	PLCC-28
PL22V10-12	E2 UNIV PAL 12NS TPD	PLCC-28
PL22V10-15	E2 UNIV PAL 15NS TPD	PLCC-28
PML2552-35	CMOS HI-DENSITY PML TPD 35NS	PLCC-68
PML2552-50	CMOS HI-DENSITY PML TPD 50NS	PLCC-68
PNA7509T	7-BIT A/D, 22MHZ	SO-24
P80CL410HF	RMLS/128 1.8-6V VSO	SO-40
P80C32EBA	ROMLESS/256 16MHZ COM TEMP	PLCC-44
P80C32EFA	ROMLESS/256 16MHZ EXT TEMP	PLCC-44
P80C32GBA	ROMLESS/256 20MHZ COM TEMP	PLCC-44
P80C32GFA	ROMLESS/256 20MHZ EXT TEMP	PLCC-44
P80C52EBA	8K/256 ROM 16MHZ COM TEMP	PLCC-44
P80C52EFA	8K/256 ROM 16MHZ EXT TEMP	PLCC-44
P80C52GBA	8K/256 ROM 20MHZ COM TEMP	PLCC-44
P80C52GFA	8K/256 ROM 20MHZ EXT TEMP	PLCC-44
P80C550EBA	ROMLESS/128 A/D 16MHZ COM TEMP	PLCC-44
P80C550EFA	ROMLESS/128 A/D 16MHZ EXT TEMP	PLCC-44
P83CL410HF	4K/128 ROM 16MHZ EXT TEM VSO40	SO-40
P83C550EBA	4K/128 ROM A/D 16MHZ COMM TEMP	PLCC-44
P83C550EFA	4K/128 ROM A/D 16MHZ EXT TEMP	PLCC-44
P87C52EBA	8K/256 OTP 16MHZ COM TEMP	PLCC-44
P87C52EFA	8K/256 OTP 16MHZ EXT TEMP	PLCC-44
P87C52GBA	8K/256 OTP 20MHZ COM TEMP	PLCC-44
P87C52GFA	8K/256 OTP 20MHZ EXT TEMP	PLCC-44
P87C528EBA	32K/512 OTP 16MHZ COM TEMP	PLCC-44
P87C528EFA	32K/512 OTP 16MHZ EXT TEMP	PLCC-44
P87C528GBA	32K/512 OTP 20MHZ COM TEMP	PLCC-44
P87C528GFA	32K/512 OTP 20MHZ EXT TEMP	PLCC-44
P87C550EBA	4K/128 OTP A/D 16MHZ COM TEMP	PLCC-44
P87C550EFA	4K/128 OTP A/D 16MHZ EXT TEMP	PLCC-44
P90C100AB	RMLS/512 68000 MCU 15MHZ 0 - 70°C	PLCC-84
P93C100AB	34K/512 ROM 6800 MUC 15MHZ	PLCC-84
SAA1043T	UNIVERSAL SYNC GENERATOR	SO-28
SAA1044T	SUBCARRIER COUPLING I.C.	SOL-16
SAA1101T	UNIVERSAL SYNC GEN 5V	SO-28

SMD Product Listing

SAA3004T	REMOTE CONTROL TRANSMITTER	SO-20
SAA3010T	IR TRANSMITTER	SO-28
SAA7151WP	DIGITAL MULTISTANDARD DECODER	PLCC-68
SAA7157AT	CLOCK GENERATOR CIRCUIT	SO-20
SAA7191WP	DIGITAL MULTISTANDARD VIDEO DECODER	PLCC-68
SAA7192AWP	DIGITAL COLOR SPACE CONVERTER	PLCC-68
SAA7192WP	DIGITAL COLOR SPACE CONVERTER	PLCC-68
SAA7197AT	CLOCK GENERATOR CIRCUIT	SO-20
SAA9051WP	DIGITAL MULTISTANDARD DECORDER	PLCC-68
SAA9057AT	CLOCK GENERATOR CIRCUIT	SO-20
SAB6456T	1GHZ PRESCALER	SO-8
SA1458	DUAL OP AMP	SO-8
SA4558	DUAL GENERAL PURPOSE OP AMP	SO-8
SA5090	ADDRESSABLE RELAY DRIVER	SOL-16
SA5204	HI FREQ AMP DC TO 350MHZ	SO-8
SA5205	HI FREQ AMP DC TO 550MHZ	SO-8
SA5209	WIDEBAND VARIABLE GAIN AMP	SO-16
SA5211	180MHZ TRANSIMPEDANCE AMP	SO-14
SA5212A	FIBER OPTIC TRANSIMPEDANCE	SO-8
SA5214	POST AMP WITH LINK STATUS IND	SO-20
SA5217	POST AMP WITH LINK STATUS IND	SO-20
SA5224	POST AMP-100K ECL DIF OUTPUT	SO-16
SA5225	POST AMP-10K ECL DIF OUTPUT	SO-16
SA5230	LOW VOLTAGE OP AMP	SO-8
SA5234	MATCHED QUAD HI-PERF OP AMP	SO-14
SA532	DUAL OP AMP/MICRO	SO-8
SA534	QUAD OP AMPLIFIER	SO-14
SA5512	DUAL-HIGH PERFORMANCE OP-AMP	SO-8
SA5521	LVDT SIGNAL CONDITIONER	SOL-16
SA5534A	LOW NOISE OP AMPLIFIER	SO-8
SA555	TIMER-MICRO	SO-8
SA571	COMPANDOR	SOL-16
SA572	PROGRAMMABLE COMPANDOR	SOL-16
SA575	LOW VOLTAGE COMPANDOR	SO-20
SA575	LOW VOLTAGE COMPANDOR SSOP	SO-20
SA5750	AUDIO PROCES-COMPANDOR/AMP SEC	SO-24
SA5751	AUDIO PROCESS-FILERT/CTRL SEC	SO-28
SA576	LOW POWER COMPANDOR	SO-14
SA577	LOW POWER COMPANDOR W/PRG ODB	SO-14
SA578	LOW POWER COMPANDOR W/PRG ODB	SO-16
SA594	VACUUM FLUORESCENT DISPLAY DRIVER	SO-20
SA602	ORDER SA602AD	SO-8
SA602A	DOUBLE BAL MIXER/OSCILLATOR	SO-8
SA604A	HI PERF FM IF	SO-16
SA605	HI PERF FM IF SYSTEM	SO-20
SA605	HI PERF FM IF SYSTEM SSOP	SO-20
SA606	LOW POWER HI PERF FM IF SYSTEM	SO-20
SA606	LOW POWER HI PERF FM IF SYSTEM SSOF	SO-20
SA612A	DOUBLE BAL MIXER/OSCILLATOR	SO-8
SA614A	LOW POWER FM IF SYSTEM	SO-16
SA615	HI PERF FM IF SYSTEM	SO-20
SA615	HI PERF FM IF SYSTEM SSOP	SO-20

SMD Product Listing

SCB2675CC5	COLOR/MONO ATTR CONTR 25MHZ VT	PLCC-44
SCB68154C2	VME INTERRUPT GENERATOR	PLCC-44
SCB68155CA	VME INTERRUPT HANDLER	PLCC-44
SCB68172C2	VME BUS CONTROLLER	PLCC-44
SCC2691AC1	CMOS UART	PLCC-28
SCC2691AC1	CMOS UART	SO-24
SCC2691AE1	CMOS UART -40 TO +85°C	PLCC-28
SCC2692AC1	CMOS DUART (CMOS 2681)	PLCC-44
SCC2692AE1	CMOS DUART -40 TO 85°C	PLCC-44
SCC2698BA1	ORDER SCC2698BE1A84	PLCC-84
SCC2698BC1	CMOS OCTAL UART W/PROGRAM INTERRUPT	PLCC-84
SCC2698BE1	CMOS OCTAL UART IND TEMP	PLCC-84
SCC63484C8	ADV CRT CONTROLLER 8MHZ	PLCC-68
SCC68070AA	ORDER SCC68070ABA84	PLCC-84
SCC68070AB	16/32-BIT MPU 12.5MHZ -40 TO +85°C	PLCC-84
SCC68070AC	16/32-BIT MPU 15MHZ -40 TO +85°C	PLCC-84
SCC68070CA	ORDER SCC68070CBA84	PLCC-84
SCC68070CB	16/32-BIT MPU 12.5MHZ 0 TO 70°C	PLCC-84
SCC68070CC	16/32-BIT MPU 15MHZ 0 TO +70°C	PLCC-84
SCC68070CD	16/31 BI MPU 17.5MHZ 0 TO 70°C	PLCC-84
SCC68692C1	68K CMOS DUART (CMOS68681)	PLCC-44
SCC68692E1	CMOS DUART IND TEMP	PLCC-44
SCN2641CC1	ASYNCHRONOUS COMM INTERFACE ACI	PLCC-28
SCN2652AC2	MPCC 2MHZ	PLCC-44
SCN26542C2	DMSC	PLCC-52
SCN26562C4	DUAL UNIV COMM CONTROLLER (DUSCC)	PLCC-52
SCN2661AC1	ENHANCED PCI	PLCC-28
SCN2661BC1	ENHANCED PCI	PLCC-28
SCN2661CC1	ENHANCED PCI	PLCC-28
SCN2672BC4	VIDEO TIMING CONTROLLER	PLCC-44
SCN2672TC5	VIDEO TIMING CONTROLLER TURBO 5.0MHZ	PLCC-44
SCN2674BC4	ADVANCED VIDEO TIMING	PLCC-44
SCN2674TC5	ADV VIDEO TIMING TURBO 5.5MHZ	PLCC-44
SCN2681AC1	DUART	PLCC-44
SCN2681AE1	DUART -40 TO +85°C	PLCC-44
SCN2681TC1	NMOS DUART FAST BUS TIMING	PLCC-44
SCN68000CA	16-BIT MICROPROCESSOR 10MHZ	PLCC-68
SCN68000C8	16-BIT MICROPROCESSOR 8MHZ	PLCC-68
SCN68542C2	DUAL MULTI-PROTOCAL SERIAL CONTROLLER	PLCC-52
SCN68562C2	DUAL UNIV COMM CONTROLLER (DUSCC)	PLCC-52
SCN68562C4	DUAL UNIV COMM CONTROLLER (DUSCC)	PLCC-52
SCN68681C1	DUART 68K COMPATIBLE	PLCC-44
SCN68681E1	68K DUART IND TEMP	PLCC-44
SCN8031HAC	ROMLESS/128 12MHZ EXT TEMP	PLCC-44
SCN8031HAF	ROMLESS/128 15MHZ EXT TEMP	PLCC-44
SCN8031HCC	RMLS/128 12MHZ COMM TEMP	PLCC-44
SCN8031HCF	RMLS/128 15MHZ COMM TEMP	PLCC-44
SCN8032HAC	RMLS/256 12MHZ EXT TEMP	PLCC-44
SCN8032HAF	ROMLESS/256 15MHZ EXT TEMP	PLCC-44
SCN8032HCC	RMLS/256 12MHZ COMM TEMP	PLCC-44
SCN8032HCF	RMLS/256 15MHZ COMM TEMP	PLCC-44
SCN8039HAB	RMLS/128 11MHZ EXT TEMP	PLCC-44

SMD Product Listing

SCN8039HCB	RMLS/128 11MHZ COMM TEMP	PLCC-44
SCN8049HAB	2K/128 ROM 11MHZ EXT TEMP	PLCC-44
SCN8049HCB	2K/128 ROM 11MHZ COMM TEMP	PLCC-44
SCN8050HCB	4K/256 ROM 11MHZ COMM TEMP	PLCC-44
SCN8051HAC	4K/128 ROM 12MHZ EXT TEMP	PLCC-44
SCN8051HAF	4K/128 ROM 15MHZ EXT TEMP	PLCC-44
SCN8051HCC	4K/128 ROM 12MHZ COMM TEMP	PLCC-44
SCN8051HCF	4K/128 ROM 15MHZ COMM TEM	PLCC-44
SCN8052HAC	8K/256 ROM 12MHZ EXT TEMP	PLCC-44
SCN8052HAF	8K/256 ROM 15MHZ EXT TEMP	PLCC-44
SCN8052HCC	8K/256 ROM 12MHZ COMM TEMP	PLCC-44
SCN8052HCF	8K/256 ROM 15MHZ COMM TEMP	PLCC-44
SC26C94C1	QUAD CMOS UART	PLCC-52
SC68C94C1	QUAD CMOS UART	PLCC-52
SC80C31BAC	ROMLESS/128 12MHZ EXT TEM	PLCC-44
SC80C31BAG	ROMLESS/128 16MHZ EXT TEM	PLCC-44
SC80C31BAP	ROMLESS/128 24MHZ EXT TEMP	PLCC-44
SC80C31BAY	ROMLESS/128 33MHZ EXT TEMP	PLCC-44
SC80C31BCB	RMLS/128 .5-12MHZ COM TEMP	PLCC-44
SC80C31BCC	ROMLESS/128 12MHZ COM TEM	PLCC-44
SC80C31BCG	ROMLESS/128 16MHZ COM TEMP	PLCC-44
SC80C31BCL	ORDER SC80C31BCPA44 (24MHZ)	PLCC-44
SC80C31BCP	ROMLESS/128 24MHZ COM TEMP	PLCC-44
SC80C31BCY	ROMLESS/128 33MHZ COM TEMP	PLCC-44
SC80C451AC	RMLS/128 60I/O 12MHZ EXT TEMP	PLCC-68
SC80C451AG	RMLS/128 60I/O 16MHZ EXT TEMP	PLCC-68
SC80C451CC	RMLS/128 60I/O 12MHZ COM TEMP	PLCC-68
SC80C451CG	RMLS/128 60 I/O 16MHZ COM TEMP	PLCC-68
SC80C51BAC	4K/128 ROM 12MHZ EXT TEMP	PLCC-44
SC80C51BAG	4K/128 ROM 16MHZ EXT TEMP	PLCC-44
SC80C51BAP	4K/128 ROM 24MHZ EXT TEMP	PLCC-44
SC80C51BAY	RK/128 ROM 33MHZ EXT TEMP	PLCC-44
SC80C51BCB	4K/128 ROM .5-12MHZ 0 - 70°C	PLCC-44
SC80C51BCC	4K/128 ROM 12MHZ COM TEMP	PLCC-44
SC80C51BCG	4K/128 ROM 16MHZ COM TEMP	PLCC-44
SC80C51BCL	ORDER SC80C51BCPA44 (24MHZ)	PLCC-44
SC80C51BCP	4K/128 ROM 24MHZ COM TEMP	PLCC-44
SC80C51BCY	4K/128 ROM 33MHZ COM TEMP	PLCC-44
SC83C451AC	4K/128 ROM 60I/O 12MHZ EXT TEMP	PLCC-68
SC83C451AG	4K/128 ROM 60I/O 16MHZ EXT TEMP	PLCC-68
SC83C451CC	4K/128 ROM 60I/O 12MHZ COM TEMP	PLCC-68
SC83C451CG	4K/128 ROM 60I/O 16MHZ COM TEMP	PLCC-68
SC87C451AB	4K/128 OTP 60I/O .5-12MHZ EXT TEMP	PLCC-68
SC87C451AC	4K/128 OTP 60I/O 12MHZ EXT TEMP	PLCC-68
SC87C451AG	4K/128 OTP 60I/O 16MHZ EXT TEMP	PLCC-68
SC87C451CB	4K/128 OTP 60I/O .5-12MHZ 0 - 70°C	PLCC-68
SC87C451CC	4K/128 OTP 60I/O 12MHZ COM TEMP	PLCC-68
SC87C451CG	4K/128 OTP 60I/O 16MHZ COM TEMP	PLCC-68
SC87C51AB	4K/128 OTP .5-12MHZ EXT TEMP	PLCC-44
SC87C51AC	4K/128 OTP 12MHZ EXT TEMP	PLCC-44
SC87C51AG	4K/128 OTP 16MHZ EXT TEMP	PLCC-44
SC87C51AP	4K/128 OTP 24MHZ EXT TEMP	PLCC-44

SMD Product Listing

SC87C51AY	4K/128 OTP 33MHZ EXT TEMP	PLCC-44
SC87C51CB	4K/128 OTP .5-12MHZ COM TEMP	PLCC-44
SC87C51CC	4K/128 OTP 12MHZ COM TEMP	PLCC-44
SC87C51CG	4K/128 OTP 16MHZ COM TEMP	PLCC-44
SC87C51CP	4K/128 OTP 24MHZ COM TEMP	PLCC-44
SC87C51CY	4K/128 OTP 33MHZ COM TEMP	PLCC-44
SE567	TONE DECODER	SO-8
SG3524	S.M.P.S. CONTROL CIRCUIT	SO-16
S80C552-1	RMLS/256 10-BIT A/D 16MHZ COM TEMP	PLCC-68
S80C552-2	RMLS/256 10-BIT A/D 16MHZ EXT TEMP	PLCC-68
S80C552-6	RMLS256 10-BIT A/D 12MHZ 40 TO 125°C	PLCC-68
S80C562-2	RMLS/256 8-BIT A/D 12MHZ EXT TEMP	PLCC-68
S80C562-4	RMLS/256 8-BIT A/D 16MHZ 0 TO 70°C	PLCC-68
S80C562-6	RMLS/256 8-BIT 12MHZ -40 TO 125°C	PLCC-68
S80C652-1	ROMLES/256 I²C 12MHZ COM TEMP	PLCC-44
S80C652-2	ROMLESS/256 I²C EXT TEMP	PLCC-44
S80C652-6	ROMLESS/256 I²C 12MHZ 40 TO 125°C	PLCC-44
S80C851-1	RMLS/128 256 EEPROM 12MHZ 0 TO 70°C	PLCC-44
S80C851-2	RMLS/128 256 EEPROM 12MHZ EXT TEMP	PLCC-44
S83C552-1	8K/256 ROM 10-BIT A/D 16MHZ COM TEMP	PLCC-68
S83C552-2	8K/256 ROM 10-BIT A/D 16MHZ EXT TEMP	PLCC-68
S83C552-6	8K/256 ROM 10-BIT 12MHZ 40 TO 125°C	PLCC-68
S83C562-2	8K/256 ROM 8-BIT A/D 12MHZ EXT TEMP	PLCC-68
S83C562-4	8K/256 ROM 8-BIT A/D 16MHZ COM TEMP	PLCC-68
S83C562-6	8K/256 ROM 8-BIT 12MHZ 40 TO 125°C	PLCC-68
S83C652-1	8K/256 ROM I²C 12MHZ COM TEMP	PLCC-44
S83C652-2	8K/256 ROM I²C 12MHZ EXT TEMP	PLCC-44
S83C652-6	8K/256 ROM I²C 12MHZ 40 TO 125°C	PLCC-44
S83C654-1	16K/256 ROM ²2C 16MHZ COM TEMP	PLCC-44
S83C654-2	16K/256 ROM I²C 16MHZ EXT TEMP	PLCC-44
S83C654-6	16K/256 ROM I²C 16MHZ EXT TEMP	PLCC-44
S83C751-1	2K/64 ROM I²C 12MHZ COM TEMP	PLCC-28
S83C751-2	2K/64 ROM I²C 12MHZ EXT TEMP	PLCC-28
S83C751-3	2K/64 ROM I²C .5-12MHZ COM TEM	PLCC-28
S83C751-4	2K/64 ROM I²C 16MHZ COM TEMP	PLCC-28
S83C751-5	2K/64 ROM I²C 16MHZ EXT TEMP	PLCC-28
S83C752-1	2K/64 ROM A/D I²C 12MHZ COM TEMP	PLCC-28
S83C752-2	2K/64 ROM A/D I²C 12MHZ EXT TEMP	PLCC-28
S83C752-4	2K/64 ROM A/D I²C 16MHZ 0 TO 70°C	PLCC-28
S83C752-5	2K/64 ROM A/D I²C 16MHZ EXT TEMP	PLCC-28
S87C552-1	8K/256 OTP 12MHZ 10BIT A/D COM TEMP	PLCC-68
S87C552-2	8K/256 OTP 12MHZ 10BIT A/D COM TEMP	PLCC-68
S87C552-4	8K/256 OTP 10BIT A/D 16MHZ COM TEMP	PLCC-68
S87C552-5	8K/256 OTP 10BIT A/D 16MHZ EXT TEMP	PLCC-68
S87C652-4	8K/256 OTP I²C 16MHZ COM TEMP	PLCC-44
S87C652-5	8K/256 OTP 16MHZ I²C EXT TEMP	PLCC-44
S87C652-7	8K/256 OTP 20MHZ COM TEMP I²C	PLCC-44
S87C652-8	8K/256 OTP 20MHZ EXT TEMP I²C	PLCC-44
S87C654-4	16K/256 OTP I²C 16MHZ COM TEMP	PLCC-44
S87C654-5	16K/256 OTP I²C 16MHZ EXT TEMP	PLCC-44
S87C654-7	16K/256 OTP I²C 20MHZ COM TEMP	PLCC-44
S87C654-8	16K/256 OTP I²C 20MHZ EXT TEMP	PLCC-44

SMD Product Listing

S87C751-1	2K/64 OTP I²C 12MHZ COM TEMP	PLCC-28
S87C751-2	2K/64 OTP I²C 12MHZ EXT TEMP	PLCC-28
S87C751-3	2K/64 OTP I²C .5-12MHZ COM TEMP	PLCC-28
S87C751-4	2K/64 OTP I²C 16MHZ COM TEMP	PLCC-28
S87C751-5	2K/64 OTP I²C 16MHZ EXT TEMP	PLCC-28
S87C752-1	2K/64 OTP A/D I²C 12MHZ 0 TO 70°C	PLCC-28
S87C752-2	2K/64 OTP A/D I²C 12MHZ EXT TEMP	PLCC-28
S87C752-4	2K/64 OTP A/D I²C 16MHZ 0 TO 70°C	PLCC-28
S87C752-5	2K/64 OTP A/D I²C 16MHZ EXT TEMP	PLCC-28
S87C752-6	2K/64 OTP A/D 12MHZ -55 TO 125°C	PLCC-28
TDA1543AT	ECONOMY DUAL 16-BIT DAC	SO-8
TDA3047T	I/R PRE-AMP	SOL-16
TDA3048T	IR PREAMPS	SOL-16
TDA4680WP	RGB PROCESSOR	PLCC-28
TDA4820T	VIDEO SYNC STRIPPER	SO-8
TDA5030AT	VHF MIXER OSCILLATOR	SO-20
TDA5140T	BRUSHLESS DC MOTOR DRIVER	SO-20
TDA5142T	BRUSHLESS DC MOTOR DRIVER	SO-24
TDA5143T	BRUSHLESS DC MOTOR DRIVER	SO-20
TDA5144AT	BRUSHLESS DC MOTOR DRIVER	SO-20
TDA5330T	3 BAND TUNER VHF-UHF-HYPER	SO-28
TDA6800T	VIDEO MODULATOR	SO-8
TDA7010T	FM RADIO CIRCUIT	SO-16
TDA7021T	FM CIRCUIT FOR MTS	SO-16
TDA7040T	PLL STEREO DECODER LOW VOLTAGE	SO-8
TDA7050T	LOW VOLTAGE MONO/STEREO AMP	SO-8
TDA8444T	OCTAL 6-BIT D/A CONVERTER	SOL-16
TDA8702T	8-BIT D/A CONVERTER	SOL-16
TDA8703T	8-BIT A/D CONVERTER	SO-24
TDA8708T	8-BIT VIDEO ADC	SO-28
TDA8709T	8-BIT VIDEO A/D W/AGC	SO-28
TDA8713T	8-BIT FLASH A/D	SO-28
TDD1742T	FREQUENCY SYNTHESIZER	SO-28
TEA1064AT	TEL TRAN IC W/DYN LIMIT	SO-20
TEA1064T	ORDER TEA1064ATD	SO-20
TEA1066T	TRANSMISSION IC	SO-20
TEA1067T	LV TELEPHONE TRANSMISSION CIRCUIT	SO-20
TEA1068T	TELEPHONE TRANSMISSION IC	SO-20
TEA1088T	BATTERY CHARGER	SOL-16
TEA6300T	SOUND CONTROLLER AND FADER	SO-28
UAA2050T	UHF DIGITAL PAGING RECEIVER	SO-28
UA723C	VOLTAGE REGULATOR	SO-14
UA741C	OP AMP	SO-8
UC3842	SMPS CONTROL IC	SO-14
UMA1000T	DATA PROCESSOR/CELLULAR RADIO	SO-28
UMA1014T	1GHZ FREQUENCY SYNTH	SO-16
10H20EV8-4	ECL PAL TYPE DEVICE 10K	PLCC-28
100101	TRIPLE 5-INPUT GATE	PLCC-28
100102	QUINT 2-INPUT GATE	PLCC-28
100107	QUINT EX-OR/NOR	PLCC-28
100112	QUAD HIGH FAN OUT DRIVER	PLCC-28
100113	LINE DRIVER	PLCC-28

SMD Product Listing

100114	LINE RECEIVER	PLCC-28
100117	TRIPLE AOI	PLCC-28
100118	5-WIDE AOI	PLCC-28
100122	9-BIT BUFFER	PLCC-28
100123	HEX BUS DRIVER	PLCC-28
100124	TTL-TO-ECL TRANSLATOR	PLCC-28
100125	ECL-TO-TTL TRANSLATOR	PLCC-28
100131	TRIPLE "D" FLIP/FLOP	PLCC-28
100136	MULTIPURPOSE COUNTING REGISTER	PLCC-28
100141	8-BIT UNIVERSAL SHIFT REGISTER	PLCC-28
100151	HEX FLIP/FLOP	PLCC-28
100155	QUAD MULTIPLEXER/LATCH	PLCC-28
100158	SHIFT MATRIX	PLCC-28
100160	DUAL 9-BIT PARITY	PLCC-28
100163	DUAL 8-INPUT MUX	PLCC-28
100164	16 LINE MULTIPLEXER	PLCC-28
100165	UNIVERSAL PRIORITY ENCODER	PLCC-28
100166	9-BIT COMPARATOR	PLCC-28
100170	UNIVERSAL DECODER	PLCC-28
100171	TRIPLE 4-INPUT MUX	PLCC-28
100179	CARRY LOOK-AHEAD GENERATOR	PLCC-28
100180	FAST 6-BIT ADDER	PLCC-28
100181	4-BIT ALV BINARY/DECIMAL	PLCC-28
10020EV8-4	ECL PAL-TYPE DEVICE 100K PLCC	PLCC-28
100231	TRIPLE D FLIP/FLOP (1.8 NS)	PLCC-28
100790	9-BIT REG TRANSCEIVER 3-STATE	PLCC-28
100982	6-BIT REG TRANSLATING TRANSCEIVER	PLCC-28
100984	4-BIT REG TRANSLATING TRANSCEIVER	PLCC-28
10102	QUAD 2-INPUT NOR GATE	SO-16
10104	QUAD 2-INPUT AND GATE	SO-16
10105	TRIPLE 2-3-2 OR/NOR GATE	SO-16
10107	TRIPLE EXCLUSIVE OR/NOR GATE	SO-16
10116	TRIPLE LINE RECEIVER	SO-16
10124	QUAD DIFF DRIVER/TTL-TO-ECL	SO-16
10125	QUAD DIFF DRIVER/ECL-TO-TTL	SO-16
10131	DUAL D-TYPE MS FLIP/FLOP	SO-16
10164	8-TO-1 LINE MUX (W/ENABLE)	SO-16
27C010-15	1 MEG OTP CEPROM 128K x 8 150NS	PLCC-32
27C010-20	1 MEG OTP CEPROM 128K x 8 200NS	PLCC-32
27C010I15	1 MEG OTP - IND TEMP	PLCC-32
27C010I20	1 MEG OTP - IND TEMP	PLCC-32
27C210-15	1 MEG OTP CEPROM 64K x 16 150NS	PLCC-44
27C210-20	1MEG OTP CEPROM (64K x 16) 200NS	PLCC-44
27C256-12	256K O.T.P CPROM (32K x 8) 120NS	PLCC-32
27C256-12	256K S.O. EPROM (32K x 8) 120NS	SO-28
27C256-15	256K CMOS EPROM (32K x 8) 150NS	PLCC-32
27C256-15	256K S.O. EPROM (32K x 8) 150NS	SO-28
27C256-20	256K CMOS EPROM (32K x 8) 200NS	PLCC-32
27C256-20	256K S.O. EPROM (32K x 8) 200NS	SO-28
27C256I12	256K OTP IND TEMP	PLCC-32
27C256I12	256K S.O. IND TEMP	SO-28
27C256I15	256K OTP IND TEMP	PLCC-32

SMD Product Listing

27C256I15	256K S.O. EPROM IND TEMP	SO-28
27C256I20	256K OTP - IND TEMP	PLCC-32
27C256I20	256K S.O. EPROM IND TEMP	SO-28
27C512-12	512K OTP CEPROM 64 x 8 120NS	PLCC-32
27C512-15	512K OTP CEPROM 64 x 8 150NS	PLCC-32
27C512-17	512K OTP CEPROM 64 x 8 170NS	PLCC-32
27C512-20	512K OTP CEPROM 64 x 8 200NS	PLCC-32
27C512I12	512K OTP IND TEMP	PLCC-32
27C512I20	512K OTP IND TEMP	PLCC-32
27C64A-12	64K O.T.P CEPROM 8K x 8 120NS	PLCC-32
27C64A-15	64K O.T.P CEPROM 8K x 8 150NS	PLCC-32
27C64A-17	64K OTP CEPROM 8 x 8 170 NS	PLCC-32
27C64A-20	64K O.T.P. CEPROM 8K x 8 200NS	PLCC-32
27C64A-25	64K OTP CEPROM 8K x 8 250 NS	PLCC-32
27C64AI15	64K OTP - IND TEMP	PLCC-32
27C64AI20	64K OTP - INDTEMP	PLCC-32
27HC641-45	64K EPROM 8K x 8 45NS	PLCC-28
27HC641-55	64K EPROM 8K x 8 45NS	PLCC-28
74ABT241	OCTAL BUFFER/LINE DRIVER 3-STATE	SO-20
74ABT244	OCTAL BUFFER/LINE DRIVER 3-STATE	SO-20
74ABT245	OCTAL TRANSVER W/DIRECT PIN 3-STATE	SO-20
74ABT273	OCTAL D-TYPE FLIP/FLOP	SO-20
74ABT2952	OCTAL REGISTERED XCVR, 3 STATE	SO-24
74ABT2953	OCTAL REGISTERED XCVR INV 3-STATE	SO-24
74ABT373	D-TYPE TRANSPARENT LATCH 3-STATE	SO-20
74ABT374	OCT D-TYP FLIP/FLOP POS EDGE TRIGGER 3-STATE	SO-20
74ABT377	OCT D-TYPE FLIP/FLOP W/ENABLE	SO-20
74ABT534	OCTAL D FLIP/FLOP 3-STATE INVERTER	SO-20
74ABT541	OCTAL BUFFER/LINE DRIVER 3-STATE	SO-20
74ABT543	OCTAL LATCHED TRANSCEIVER 3 STATE	SO-24
74ABT544	OCTAL LATCHED TRANSCEIVER, INV, 3-STATE	SO-24
74ABT573	D-TYPE TRANSPARENT LATCH 3-STATE	SO-20
74ABT574	OCTAL D FLIP/FLOP 3-STATE	SO-20
74ABT623	OCT XCVR W/DUAL ENABLE INV 3-STATE	SO-20
74ABT646	OCTAL REGISTERED XCVR 3 STATE	SO-24
74ABT648	OCTAL REGISTERD XCVR,INV 3-STATE	SO-24
74ABT652	OCTAL REIGSTERED XCVR 3 STATE	SO-24
74ABT657	OCTAL TRANSCEIVER W/PARITY GEN. CHK.	SO-24
74ABT863	9-BIT TRANSCIEVER, 3-STATE	SO-24
74ACT11000	QUAD 2-INPUT NAND GATE	SO-16
74ACT11002	QUAD 2-INPUT NOR GATE	SO-16
74ACT11004	HEX INVERTER	SO-20
74ACT11008	QUAD 2-INPUT AND GATE	SO-16
74ACT11010	TRIPLE 3-INPUT NAND GATE	SO-16
74ACT11011	TRIPLE 3-INPUT AND GATE	SO-16
74ACT11013	DUAL NAND SCHMITT TRIGGER	SO-14
74ACT11014	HEX SCHMITT TRIGGER	SO-20
74ACT11020	DUAL 4-INPUT NAND GATE	SO-14
74ACT11021	DUAL 4-INPUT AND GATE	SO-14
74ACT11027	TRIPLE 3-INPUT NOR GATE	SO-16
74ACT11030	8-INPUT NAND GATE	SO-14
74ACT11032	QUAD 2-INPUT NAND SCHMITT TRIGGER	SO-16

SMD Product Listing

74ACT11034	HEX NON-INVERTER	SO-20
74ACT11074	DUAL D-TYPE FLIP/FLOP	SO-14
74ACT11086	QUAD 2-INPUT EXCLUSIVE-OR GATE	SO-16
74ACT11109	DUAL J-K FLIP/FLOP	SO-16
74ACT11112	DUAL J-K NEGATIVE EDGE FLIP/FLOP	SO-16
74ACT11132	QUAD SCHMITT TRIGGER	SO-16
74ACT11138	3-TO-8 LINE DECODER/DEMUX	SO-16
74ACT11139	DUAL 2-TO-10-OF-4 DECODER/DEMUX	SO-16
74ACT11151	8-INPUT MULTIPLEXER	SO-16
74ACT11153	DUAL 4-INPUT MULTIPLEXER	SO-16
74ACT11160	SYNCRONOUS 4-BIT DECADE COUNTER	SO-20
74ACT11161	4-BIT BINARY COUNTER	SO-20
74ACT11162	SYNCHRONOUS 4-BIT DECADE COUNTER	SO-20
74ACT11163	SYNCHRONOUS 4-BIT BINARY COUNTER	SO-20
74ACT11174	HEX D-TYPE FLIP/FLOP W/RESET POSITIVE EDGE	SO-20
74ACT11175	QUAD D-TYPE EDGE TRIGGER FLIP/FLOP	SO-20
74ACT11181	4-BIT ARITHMATIC LOGIC UNIT	SO-28
74ACT11190	DECADE UP/DOWN COUNTER	SO-20
74ACT11191	BINARY UP/DOWN COUNTER	SO-20
74ACT11194	4-BIT BIDIRECTIONAL S/R	SO-20
74ACT11238	3-TO-8 LINE DEC/DEMUX	SO-16
74ACT11239	DUAL 2-TO-4 DECODER/DEMUX	SO-16
74ACT11240	OCTAL BUFFER/LINE DRIVER, INV	SO-24
74ACT11241	OCTAL BUFFER/LINE DRIVER, 3-STATE	SO-24
74ACT11244	OCTAL BUFFER/LINE DRIVER, 3-STATE	SO-24
74ACT11245	OCTAL TRANSCEIVER, 3-STATE	SO-24
74ACT11251	8-INPUT MUX, 3-STATE	SO-16
74ACT11253	DUAL 4-INPUT MULTIPLEXER 3-STATE	SO-16
74ACT11257	QUAD 2-INPUT MULTIPLEXER	SO-20
74ACT11258	QUAD 2-TO-1 MUX 3-STATE	SO-20
74ACT11269	8-BIT BINARY UP/DOWN COUNTER	SO-28
74ACT11273	OCTAL D-TYPE FLIP/FLOP WITH RESET	SO-24
74ACT11280	9-BIT ODD/EVEN PAR GEN/CHECKER	SO-14
74ACT11286	9-BIT ODD/EVEN PAR GEN/CHECKER	SO-14
74ACT11353	DUAL 4-INPUT MULTIPLEXER 3-5 INV	SO-16
74ACT11373	OCTAL D-TYPE TRANSPARENT LATCH	SO-24
74ACT11374	OCTAL D-TYPE FLIP/FLOP	SO-24
74ACT11377	OCTAL D-TYPE FLIP/FLOP	SO-24
74ACT11378	HEX D-TYPE FLIP/FLOP W/ENABLE POSITIVE EDGE	SO-20
74ACT11379	QUAD D FLIP/FLOP WITH ENABLE	SO-20
74ACT11470	OCTAL TRANCEIVER-REGISTER	SO-28
74ACT11471	OCTAL TRANSCEIVER-REGISTER	SO-28
74ACT11520	8-BIT IDENTITY COMPARITOR W/ INPUT PULL-UP	SO-20
74ACT11521	8-BIT IDENTITY COMPARITOR	SO-20
74ACT11533	OCTAL D-TYPE TRANSPARENT LATCH	SO-24
74ACT11534	OCTAL D FLIP/FLOP INV, 3-STATE	SO-24
74ACT11543	OCTAL LATCHED TRANSCEIVER	SO-28
74ACT11544	OCTAL LATCHED TRANSCEIVER	SO-28
74ACT11620	OCTAL BUS TRANSCEIVER 3-STATE	SO-24
74ACT11623	OCTAL BUS TRANSCEIVER 3-STATE	SO-24
74ACT11640	OCTAL TRANSCEIVER, INV	SO-24
74ACT11643	OCTAL BUS TRANSCEIVER 3-STATE	SO-24

SMD Product Listing

74ACT11646	TRANSCEIVER/REGISTER W-DIRECTION PIN 3-STATE	SO-28
74ACT11648	TRANSCEIVER/REGISTER W/DIRECTION PIN INV	SO-28
74ACT11651	OCTAL TRANSCEIVER-REGISTER	SO-28
74ACT11652	OCTAL TRANSCEIVER	SO-28
74ACT11656	OCTAL BUFFER	SO-28
74ACT11657	OCTAL TRANSCEIVER	SO-28
74ACT11810	EXCLUSIVE NOR GATE	SO-16
74ACT11827	10 WIDE BUFFER/LINE DRIVER 3-STATE	SO-28
74ACT11828	10 WIDE BUFFER/LINE DRIVER 3-STATE	SO-28
74ACT11873	DUAL 4-BIT TRANSCEIVER LATCH W/CLEAR	SO-28
74ACT11874	DUAL 4-BIT D-EDGE TRIGGER FLIP/FLOP W/CLEAR	SO-28
74ACT11898	10-BIT SER IN/PARA OUT SR	SO-20
74ACT11979	8-BIT MUX I/O READ-BACK REGISTER	SO-16
74AC11000	QUAD 2-INPUT NAND GATE	SO-16
74AC11002	QUAD 2-INPUT NOR GATE	SO-16
74AC11004	HEX INVERTER	SO-20
74AC11008	QUAD 2-INPUT AND GATE	SO-16
74AC11010	TRIPLE 3-INPUT NAND GATE	SO-16
74AC11011	TRIPLE 3-INPUT AND GATE	SO-16
74AC11013	DUAL NAND SCHMITT TRIGGER	SO-14
74AC11014	HEX SCHMITT TRIGGER	SO-20
74AC11020	DUAL 4-INPUT NAND GATE	SO-14
74AC11021	DUAL 4-INPUT AND GATE	SO-14
74AC11027	TRIPLE 3-INPUT NOR GATE	SO-16
74AC11030	8-INPUT NAND GATE	SO-14
74AC11032	QUAD 2-INPUT NAND SCHMITT TRIGGER	SO-16
74AC11034	HEX NON-INVERTER	SO-20
74AC11074	DUAL D-TYPE FLIP/FLOP	SO-14
74AC11086	QUAD 2-INPUT EXCLUSIVE OR GATE	SO-16
74AC11109	DUAL J-K FLIP/FLOP	SO-16
74AC11112	DUAL J-K NEGATIVE EDGE FLIP/FLOP	SO-16
74AC11132	QUAD SCHMITT TRIGGER	SO-16
74AC11138	3-TO-8 LINE DECODER/DEMUX	SO-16
74AC11139	DUAL 2-TO-10-OF-4 DECODER/DEMUX	SO-16
74AC11151	SINGLE 8-TO-1 MUX	SO-16
74AC11153	DUAL 4-INPUT MUX	SO-16
74AC11158	QUAD 2-IN DATA SELECTOR NON-INV	SO-20
74AC11160	SYNC BCD DECADE COUNTER/ASYNC RESET	SO-20
74AC11161	4-BIT BINARY COUNTER	SO-20
74AC11162	SYNC BCD DECADE COUNTER/SYNC RESET	SO-20
74AC11163	SYNCH 4-BIT BINARY COUNTER	SO-20
74AC11174	HEX D-TYPE FLIP/FLOP	SO-20
74AC11175	QUAD BISTABLE LATCH	SO-20
74AC11181	4-BIT ARITHMATIC LOGIN UNIT	SO-28
74AC11190	DECADE UP/DOWN COUNTER	SO-20
74AC11191	BINARY UP/DOWN COUNTER	SO-20
74AC11194	4-BIT BIDIRECTIONAL S.R.	SO-20
74AC11238	3-TO-8 DECODER/DEMULTIPLEXER	SO-16
74AC11239	DUAL 2-TO-4 DECODER/DEMUX	SO-16
74AC11240	OCTAL BUFFER/LINE DRIVER, INV	SO-24
74AC11241	OCTAL BUFFER/LINE DRIVER, 3-STATE	SO-24
74AC11244	OCTAL BUFFER/LINE DRIVER, 3-STATE	SO-24

SMD Product Listing

74AC11245	OCTAL TRANSCEIVER, 3-STATE	SO-24
74AC11251	8-TO-1 MUX 3-STATE	SO-16
74AC11253	DUAL 4-INPUT MULTIPLEXER 3-STATE	SO-16
74AC11257	QUAD 2-TO-1 MUX 3-STATE	SO-20
74AC11258	QUAD 2-TO-1 MUX 3-STATE	SO-20
74AC11269	8-BIT UP/DOWN COUNTER	SO-28
74AC11273	OCTAL D-TYPE FLIP/FLOP WITH RESET	SO-24
74AC11280	9-BIT ODD/EVEN PARITY GEN CHECKER	SO-14
74AC11286	9-BIT ODD/EVEN PARITY GEN CHECKER	SO-14
74AC11353	DUAL 4-INPUT MULTIPLEXER 3-STATE INV	SO-16
74AC11373	OCTAL D-TYPE TRANSPARENT LATCH	SO-24
74AC11374	OCTAL D-TYPE FLIP/FLOP	SO-24
74AC11378	HEX D-TYPE FLIP/FLOP W/ENABLE	SO-20
74AC11379	QUAD D FLIP/FLOP WITH ENABLE	SO-20
74AC11470	OCTAL TRANSCEIVER-REGISTER	SO-28
74AC11471	OCTAL TRANSCEIVER-REGISTER	SO-28
74AC11520	8-BIT ID COMPARITOR W-INPUT PULL-UP	SO-20
74AC11521	8-BIT IDENTITY COMPARITOR	SO-20
74AC11533	OCTAL D-TYPE TRANSPARENT LATCH	SO-24
74AC11534	OCTAL D FLIP/FLOP INV, 3-STATE	SO-24
74AC11620	OCTAL BUS TRANSCEIVER 3-STATE	SO-24
74AC11623	OCTAL BUS TRANSCEIVER 3-STATE	SO-24
74AC11640	OCTAL TRANSCEIVER	SO-24
74AC11643	OCTAL BUS TRANSCEIVER 3-STATE	SO-24
74AC11646	TRANSCEIVER/REG W/DIRECTION PIN 3-STATE	SO-28
74AC11648	TRANSCEIVER/REG W/DIRECTION PIN INV	SO-28
74AC11651	OCTAL TRANSCEIVER/REG INV 3-STATE	SO-28
74AC11652	OCT TRANSCEIVER/REG W/DUAL ENABLE 3-STATE	SO-28
74AC11656	OCTAL BUFFER W/PARITY GEN/CHECK	SO-28
74AC11657	OCTAL TRANSCEIVER W/PARITY GEN/CHECK	SO-28
74AC11810	EXCLUSIVE NOR GATE	SO-16
74AC11827	10 WIDE BUFFER/LINE DRIVER	SO-28
74AC11828	10 WIDE BUFFER/LINE DRIVER 3-STATE	SO-28
74AC11873	DUAL 4-BIT TRANS LATCH W/CLEAR	SO-28
74AC11874	DUAL 4-BIT D EDGE TRIGGER FLIP/FLOP W/CLEAR	SO-28
74AC11898	10-BIT SER IN/PARA OUT SR	SO-20
74HCT00	QUAD 2-INPUT NAND GATE	SO-14
74HCT02	QUAD 2-INPUT NOR GATE	SO-14
74HCT03	QUAD 2-INPUT AND GATE	SO-14
74HCT04	HEX INVERTER	SO-14
74HCT08	QUAD 2-INPUT AND GATE	SO-14
74HCT10	TRIPLE 3-INPUT NAND GATE	SO-14
74HCT107	DUAL J-K NEG EDGE FLIP/FLOP	SO-14
74HCT109	DUAL J-K POS EDGE FLIP/FLOP	SO-16
74HCT11	TRIPLE 3-INPUT AND GATE	SO-14
74HCT112	DUAL J-K NEG EDGE FLIP/FLOP	SO-16
74HCT123	DUAL RETRIG MONOSTABLE MULTI	SO-16
74HCT125	QUAD 3-STATE BUS BUFFER	SO-14
74HCT126	QUAD 3-STATE BUS BUFFER	SO-14
74HCT132	QUAD 2-INPUT NAND SCHMITT TRIGGER	SO-14
74HCT137	3-TO-8 LINE DECODER/DEMUX	SO-16
74HCT138	1-OF-8 DECODER DEMULTIPLEXER	SO-16

SMD Product Listing

74HCT139	DUAL 1-OF-4 DECOD/DEMUX	SO-16
74HCT14	HEX SCHMITT TRIGGER	SO-14
74HCT147	10-TO-4 LINE PRIORITY ENCODER	SO-16
74HCT151	8-INPUT MULTIPLEXER	SO-16
74HCT153	DUAL 4-INPUT MULTIPLEXER	SO-16
74HCT154	1-OF-16 DECODER/DEMUX	SO-24
74HCT157	QUAD 2-INPUT MULTIPLEXER	SO-16
74HCT158	QUAD 2-INPUT MUX, INVERTING	SO-16
74HCT160	SYNC. 4-BIT DECADE COUNTER	SO-16
74HCT161	4-BIT BINARY COUNTER	SO-16
74HCT162	SYNC. 4-BIT DECADE COUNTER	SO-16
74HCT163	SYNC. 4-BIT BINARY COUNTER	SO-16
74HCT164	8-BIT SIPO SHIFT REGISTER	SO-14
74HCT165	PARALLEL-LOAD 8-BIT SHIFT REGISTER	SO-16
74HCT166	8-BIT PISO SHIFT REGISTER	SO-16
74HCT173	QUAD 3-STATE D-TYPE FLIP/FLOP	SO-16
74HCT174	HEX D-TYPE FLIP/FLOP WITH CLEAR	SO-16
74HCT175	QUAD D-TYPE EDGE TRIGGER FLIP/FLOP	SO-16
74HCT181	4-BIT ARITHMETIC LOGIC UNIT	SO-24
74HCT182	CARRY LOOK-AHEAD GENERATOR	SO-16
74HCT190	BCD SYNC DECADE UP/DOWN COUNTER	SO-16
74HCT191	SYNC BINARY UP/DOWN COUNTER	SO-16
74HCT192	SYNC DECADE UP/DOWN COUNTER	SO-16
74HCT193	4-BIT BINARY UP/DOWN COUNTER	SO-16
74HCT194	4-BIT BIDIRECTIONAL SHIFT REGISTER	SO-16
74HCT195	4-BIT PARALLEL SHIFT REGISTER	SO-16
74HCT20	DUAL 4-INPUT NAND GATE	SO-14
74HCT21	DUAL 4-INPUT AND GATE	SO-14
74HCT221	DUAL MONOSTABE MULTIVIBRATOR	SO-16
74HCT237	3-TO-8 L. DECODER/DEMUX W/A LATCH	SO-16
74HCT238	1-TO-8 DECODER DEMULTIPLEXER	SO-16
74HCT240	OCTAL 3-STATE BUFFER, INV	SO-20
74HCT241	OCTAL 3-STATE BUFFER	SO-20
74HCT242	QUAD BUS TRANSCEIVER	SO-14
74HCT243	QUAD BUS TRANSCEIVER	SO-14
74HCT244	OCTAL 3-STATE DRIVER	SO-20
74HCT245	OCTAL TRANSCEIVER 3-STATE	SO-20
74HCT251	8-INPUT MUX, 3-STATE	SO-16
74HCT253	DUAL 4-TO-1 DATA SELECTOR/MUX	SO-16
74HCT257	QUAD 2-INPUT MULTIPLEXER	SO-16
74HCT258	QUAD 2-TO-1 MUX 3-STATE	SO-16
74HCT259	8-BIT ADDRESSABLE LATCH	SO-16
74HCT27	TRIPLE 3-INPUT NOR GATE	SO-14
74HCT273	QUAD D-TYPE FLIP/FLOP	SO-20
74HCT280	9-BIT ODD/EVEN PARITY GEN/CHECKER	SO-14
74HCT283	4-BIT ADDER	SO-16
74HCT297	DIG PHASE-LOCKED LOOP FILTER	SOL-16
74HCT299	8-BIT UNIVERSAL SHIFT REGISTER 3-STATE	SO-20
74HCT30	8-INPUT NAND GATE	SO-14
74HCT32	QUAD 2-INPUT OR GATE	SO-14
74HCT354	8-BIT MULTIPLEXER/REGISTER, 3-STATE	SO-20
74HCT356	8-BIT MULTIPLEXER/REGISTER, 3-STATE	SO-20

SMD Product Listing

74HCT365	HEX BUFFER W/COMMON ENABLE 3-STATE	SO-16
74HCT366	HEX INVERT W/COMMON ENABLE 3-STATE	SO-16
74HCT367	HEX BUFFER, 4-BIT & 2-BIT 3-STATE	SO-16
74HCT368	HEX INVERTER, 4-BIT & 2-BIT 3-STATE	SO-16
74HCT373	OCTAL 3-STATE LATCH	SO-20
74HCT374	OCTAL D FLIP/FLOP 3-STATE	SO-20
74HCT377	OCTAL D FLIP/FLOP WITH ENABLE	SO-20
74HCT390	DUAL DECADE RIPPLE COUNTER	SO-16
74HCT393	DUAL BINARY RIPPLE COUNTER	SO-14
74HCT4002	DUAL 4-INPUT NOR GATE	SO-14
74HCT40102	8-BIT SYNC BCD DOWN COUNTER	SO-16
74HCT40103	8-BIT BINARY DOWN COUNTER	SO-16
74HCT40104	4-BIT BIDRECT UNIV SHIFT REGISTER	SO-16
74HCT40105	4-BIT x 16-WORD FIFO REGISTER	SO-16
74HCT4015	DUAL 4-BIT SHIFT REGISTER	SO-16
74HCT4016	QUAD BILATERAL SWITCH	SO-14
74HCT4017	JOHNSON COUNTER W/10 OUTPUTS	SO-16
74HCT4020	14-STAGE BINARY COUNTER	SO-16
74HCT4024	7-STAGE BINARY RIPPLE COUNTER	SO-14
74HCT4040	12-STAGE BINARY COUNTER	SO-16
74HCT4046A	PHASE-LOCKED LOOP W/ VCO	SO-16
74HCT4051	8-CHANNEL MUX/DEMUX	SO-16
74HCT4052	DUAL 4-CHANNEL ANALOG MUX/DEMUX	SO-16
74HCT4053	TRIPLE 2-CHANNEL MUX/DEMUX	SO-16
74HCT4059	PROGRAMMABLE DIVIDE-BY-N COUNTER	SO-24
74HCT4060	14-STAGE RC BINARY COUNTER	SO-16
74HCT4066	QUAD BILATERAL SWITCH	SO-14
74HCT4067	16-CHANNEL ANALOG MUX/DEMUX	SO-24
74HCT4075	TRIPLE 3-INPUT OR GATE	SO-14
74HCT4094	8-STAGE SHIFT-&-STORE BUS REGISTER	SO-16
74HCT42	BCD-TO-DECIMAL DECODER	SO-16
74HCT423	DUAL RETRIG MONOSTABLE MULTI	SO-16
74HCT4316	QUAD BILATERAL SWITCH	SO-16
74HCT4351	8-CHANNEL ANALOG MUX/DEMUX	SO-20
74HCT4352	DUAL 4-CHAN MULTI/DEMUL W/LATCH	SO-20
74HCT4353	TRIPLE 2-CHANNEL MUX/DEMUX	SO-20
74HCT4510	BCD UP/DOWN COUNTER	SO-16
74HCT4511	BCD-TO-7 SEG LATCH/DECODER/DRIVER	SO-16
74HCT4514	4-16 DECODER/MUX W/ LATCHES	SO-24
74HCT4515	4-16 DECODER/MUX W/ LATCHES	SO-24
74HCT4516	BINARY UP/DOWN COUNTER	SO-16
74HCT4518	DUAL BCD COUNTER	SO-16
74HCT4520	DUAL BINARY COUNTER	SO-16
74HCT4538	DUAL MONOSTABLE MULTIVIBRATOR	SO-16
74HCT4543	BCD-TO-7 SEG LATCH/DECODER/DRIVER	SO-16
74HCT533	OCTAL 3-STATE LATCH INVERTING	SO-20
74HCT534	OCTAL D FLIP/FLOP INV, 3-STATE	SO-20
74HCT540	OCTAL INV BUFFER, 3-STATE	SO-20
74HCT541	OCTAL BUFFER, 3-STATE	SO-20
74HCT5555	PROG DELAY TIMER W/SCHMITT TRIGGER	SO-16
74HCT563	OCTAL 3-STATE TRANSCEIVER LATCH INV	SO-20
74HCT564	OCTAL D-TYPE FLIP/FLOP, 3-STATE	SO-20

SMD Product Listing

74HCT573	OCTAL 3-STATE TRANSCEIVER LATCH	SO-20
74HCT574	OCTAL D-TYPE FLIP/FLOP POSITIVE EDGE 3-STATE	SO-20
74HCT583	BCD ADDER	SO-16
74HCT597	8-BIT SHIFT REGISTER W/INPUT LATCH	SO-16
74HCT640	OCT 3-STATE TRANSCEIVER, INV	SO-20
74HCT643	OCT TRUE/INV TRANSCEIVER 3-STATE	SO-20
74HCT646	OCTAL TRANSCEIVER/REGISTER 3-STATE	SO-24
74HCT648	OCT INVERT TRANSCEIVER/REGISTER 3-STATE	SO-24
74HCT670	4X4 REGISTER FILE, 3-STATE	SO-16
74HCT688	8-BIT MAGNITUDE COMPARATOR	SO-20
74HCT7030	64 WORD x 9-BIT FIFO	SO-28
74HCT7046A	PHASED LOCKED LOOP W/LOCK DTCT	SO-16
74HCT7080	16-BIT PARITY GENERATR CHECKER	SO-20
74HCT7174	HEX D-TYPE FLIP/FLOP W/CLEAR	SO-16
74HCT7273	OCTAL D FLIP/FLOP	SO-20
74HCT73	DUAL J-K MASTER SLAVE FLIP/FLOP	SO-14
74HCT74	DUAL D-TYPE EDGE TRIGGER FLIP/FLOP	SO-14
74HCT75	4-BIT BISTABLE LATCH	SO-16
74HCT7540	OCTAL SCHMITT TRIGGER BUFFER/LINE DRIVER INV	SO-20
74HCT7541	OCTAL SCHMITT TRIGGER BUFFER/LINE N/INV	SO-20
74HCT7597	8-BIT SHIFT REGISTER W/ LATCHES	SO-16
74HCT85	4-BIT MAGNITUDE COMPARATOR	SO-16
74HCT86	QUAD 2-INPUT EXCLUSIVE-OR GATE	SO-14
74HCT9014	9-WIDE BUFFER W/SCHMITT TRIGGER	SO-20
74HCT9015	9-WIDE BUFFER W/SCHMITT TRIGGER	SO-20
74HCT9114	9-WIDE BUFFER W/SCHMITT TRIGGER	SO-20
74HCT9115	9-WIDE BUFFER W/SCHMITT TRIGGER	SO-20
74HCT93	4-BIT BINARY COUNTER	SO-14
74HCU04	HEX INVERTER	SO-14
74HC00	QUAD 2-INPUT NAND GATE	SO-14
74HC02	QUAD 2-INPUT NOR GATE	SO-14
74HC03	QUAD 2-INPUT AND GATE	SO-14
74HC04	HEX INVERTER	SO-14
74HC08	QUAD 2-INPUT AND GATE	SO-14
74HC10	TRIPLE 3-INPUT NAND GATE	SO-14
74HC107	DUAL J-K FLIP/FLOP W/NEG-EDGE TRIGGER	SO-14
74HC109	DUAL J-K POS EDGE FLIP/FLOP	SO-16
74HC11	TRIPLE 3-INPUT AND GATE	SO-14
74HC112	DUAL J-K NEG EDGE FLIP/FLOP	SO-16
74HC123	DUAL RETRIG MONO MULTIVIBRATOR	SO-16
74HC125	QUAD 3-STATE BUS BUFFER	SO-14
74HC126	QUAD 3-STATE BUS BUFFER	SO-14
74HC132	QUAD 2-INPUT NAND SCHMITT TRIGGER	SO-14
74HC137	3-TO-8 LINE DECODER/DEMUX	SO-16
74HC138	1-OF-8 DECODER/DEMUX	SO-16
74HC139	DUAL 1-OF-4 DECOD/DEMUX	SO-16
74HC14	HEX SCHMITT TRIGGER	SO-14
74HC147	10-TO-4 LINE PRIORITY ENCODER	SO-16
74HC151	8-INPUT MULTIPLEXER	SO-16
74HC153	DUAL 4-INPUT MULTIPLEXER	SO-16
74HC154	1-OF-16 DECOD/DEMUX	SO-24
74HC157	QUAD 2-INPUT MULTIPLEXER	SO-16

SMD Product Listing

74HC158	QUAD 2-INPUT MUX INVERTING	SO-16
74HC160	SYNC. 4-BIT DECADE COUNTER	SO-16
74HC161	4-BIT BINARY COUNTER	SO-16
74HC162	SYNC. 4-BIT DECADE COUNTER	SO-16
74HC163	SYNC. 4-BIT BINARY COUNTER	SO-16
74HC164	8-BIT SIPO SHIFT REGISTER	SO-14
74HC165	PARALLEL LOAD 8-BIT SHIFT REGISTER	SO-16
74HC166	8-BIT PISO SHIFT REGISTER	SO-16
74HC173	DUAL AND/OR GATE	SO-16
74HC174	HEX D-TYPE FLIP/FLOP WITH CLEAR	SO-16
74HC175	QUAD D-TYPE EDGE TRIGGERED FLIP/FLOP	SO-16
74HC181	4-BIT ARITHMETIC UNIT	SO-24
74HC182	CARRY LOOK-AHEAD GENERATOR	SO-16
74HC190	BCD SYNC DECADE UP/DOWN COUNTER	SO-16
74HC191	SYNC BINARY UP/DOWN COUNTER	SO-16
74HC192	SYNC DECADE UP/DOWN COUNTER	SO-16
74HC193	4-BIT BINARY UP/DOWN COUNTER	SO-16
74HC194	4-BIT BIDIRECTIONAL S/R	SO-16
74HC195	4-BIT UNIVERSAL S/R	SO-16
74HC20	DUAL 4-INPUT NAND GATE	SO-14
74HC21	DUAL 4-INPUT AND GATE	SO-14
74HC221	DUAL MONOSTABLE MULTIVIBRATOR	SO-16
74HC237	3-TO-8 LINE DECODER/DEMUX	SO-16
74HC238	1-OF- DEC/DEMUX; TRUE/INV	SO-16
74HC240	OCTAL 3-STATE BUFFER INV	SO-20
74HC241	OCTAL 3-STATE BUFFER	SO-20
74HC242	QUAD BUS TRANSCEIVER	SO-14
74HC243	QUAD BUS TRANSCEIVER	SO-14
74HC244	OCTAL 3-STATE DRIVER	SO-20
74HC245	OCTAL TRANSCEIVER 3-STATE	SO-20
74HC251	8-INPUT MUX 3-STATE	SO-16
74HC253	DUAL 4-TO-1 DATA SELECTOR/MUX	SO-16
74HC257	QUAD 2-IN MULTIPLEX; 3-STATE	SO-16
74HC258	QUAD 2-TO-1 MUX 3-STATE	SO-16
74HC259	8-BIT ADDRESSABLE LATCH	SO-16
74HC27	TRIPLE 3-INPUT NOR GATE	SO-14
74HC273	OCTAL D FLIP/FLOP W/POS EDGE TRIGGER	SO-20
74HC280	9-BIT ODD/EVEN PAR GEN/CHECKER	SO-14
74HC283	4-BIT ADDER	SO-16
74HC297	DIG PHASE LOCKED LOOP FILTER	SOL-16
74HC299	8-BIT UNIVERSAL SHIFT REGISTER 3-STATE	SO-20
74HC30	8-INPUT NAND GATE	SO-14
74HC32	GUAD 2-INPUT OR GATE	SO-14
74HC354	8-BIT MULTIPLEXER/REGISTER, 3-STATE	SO-20
74HC356	8-BIT MULTIPLEXER/REGISTER, 3-STATE	SO-20
74HC365	HEX BUFFER W/COMMON ENABLE 3-STATE	SO-16
74HC366	HEX INVERT W/COMMON ENABLE 3-STATE	SO-16
74HC367	HEX-BUFFER, 4-BIT & 2-BIT, 3-STATE	SO-16
74HC368	HEX INVERT, 4-BIT & 2-BIT, 3-STATE	SO-16
74HC373	OCTAL 3-STATE LATCH	SO-20
74HC374	OCTAL D FLIP/FLOP 3-STATE	SO-20
74HC377	OCTAL D FLIP/FLOP W/ENABLE	SO-20

SMD Product Listing

74HC390	DUAL DECADE RIPPLE COUNTER	SO-16
74HC393	DUAL BINARY RIPPLE COUNTER	SO-14
74HC4002	DUAL 4-INPUT NOR GATE	SO-14
74HC40102	8-BIT SYNC BCD DOWN COUNTER	SO-16
74HC40103	8-BIT BINARY DOWN COUNTER	SO-16
74HC40104	4-BIT BIDIRECT UNIVERSAL REGISTER	SO-16
74HC40105	4-BIT x 16-WORD FIFO REGISTER	SO-16
74HC4015	DUAL 4-BIT SHIFT REGISTER	SO-16
74HC4016	QUAD BILATERAL SWITCH	SO-14
74HC4017	JOHNSON COUNTER W/10 OUTPUTS	SO-16
74HC4020	14-STAGE BINARY COUNTER	SO-16
74HC4024	7-STAGE BINARY RIPPLE COUNTER	SO-14
74HC4040	12-STAGE BINARY COUNTER	SO-16
74HC4046A	PHASE LOCKED LOOP W/VCO	SO-16
74HC4049	HEX INVERTING BUFFER	SO-16
74HC4050	HEX NON-INVERTING BUFFER	SO-16
74HC4051	8-CHANNEL MUX/DEMUX	SO-16
74HC4052	DUAL 4-CHANNEL ANALOG MUX/DMUX	SO-16
74HC4053	TRIPLE 2-CHANNEL MUX/DEMUX	SO-16
74HC4059	PROGRAMMABLE DIVIDE-BY-N COUNTER	SO-24
74HC4060	14-STAGE RC BINARY COUNTER	SO-16
74HC4066	QUAD BILATERAL SWITCH	SO-14
74HC4067	16-CHANNEL ANALOG MUX/DEMUX	SO-24
74HC4075	TRIPLE 3-INPUT OR GATE	SO-14
74HC4094	8-STAGE SHIFT & STORE BUS REGISTER	SO-16
74HC42	BCD-TO-DECIMAL DECODER	SO-16
74HC423	DUAL RETRIG MONO MULTIVIBRATOR	SO-16
74HC4316	QUAD BILATERAL SWITCH	SO-16
74HC4351	8-CHANNEL ANALOG MUX-DEMUX	SO-20
74HC4352	DUAL 4-CHANNEL ANALOG MUX/DEMUX W/LATCH	SO-20
74HC4353	TRIPLE 2-CHANNEL MUX/DEMUX	SO-20
74HC4510	BCD UP/DOWN COUNTER	SO-16
74HC4511	BCD-TO-7-SEG LATCH DECODER/DRIVER	SO-16
74HC4514	4-16 DECODER/MUX W/LATCHES	SO-24
74HC4515	4-16 DECODER/MUX W/LATCHES	SO-24
74HC4516	BINARY UP/DOWN COUNTER	SO-16
74HC4518	DUAL BCD COUNTER	SO-16
74HC4520	DUAL BINARY COUNTER	SO-16
74HC4538	DUAL MONOSTABLE MULTIVIBRATOR	SO-16
74HC4543	BCD-TO-7-SEG LATCH DECODER/DRIVER	SO-16
74HC533	OCTAL 3-STATE LATCH INVERTING	SO-20
74HC534	OCTAL D FLIP/FLOP INV 3-STATE	SO-20
74HC540	OCTAL INV BUFFER, 3-STATE	SO-20
74HC541	OCTAL BUFFER, 3-STATE	SO-20
74HC563	OCTAL 3-STATE TRANSCEIVER LATCH, INV	SO-20
74HC564	OCTAL D-TYPE FLIP/FLOP, 3-STATE	SO-20
74HC573	OCTAL 3-STATE TRANSCEIVER LATCH, INV	SO-20
74HC574	OCTAL D-TYPE FLIP/FLOP POSITIVE EDGE 3-STATE	SO-20
74HC58	DUAL AND/OR GATE	SO-14
74HC583	BCD ADDER	SO-16
74HC597	8-BIT SHIFT REGISTER W/INPUT LATCH	SO-16
74HC640	OCTAL 3-STATE TRANSCEIVER, INV	SO-20

SMD Product Listing

74HC643	OCTAL TRUE/INVERING TRANSCEIVER 3-STATE	SO-20
74HC646	OCTAL TRANSCEIVER/REGISTER	SO-24
74HC648	OCT INVERTING TRANSCEIVER/REGISTER 3-STATE	SO-24
74HC670	4 x 4 REGISTER FILE 3-STATE	SO-16
74HC688	8-BIT MAGNITUDE COMPARATOR	SO-20
74HC7030	64 WORD x 9-BIT FIFO	SO-28
74HC7046A	PHASED-LOCKED LOOP W/LOCK	SO-16
74HC7266	QUAD 2-INPUT EXCLUSIVE-NOR GATE	SO-14
74HC73	DUAL J-K MASTER SLAVE FLIP/FLOP	SO-14
74HC74	DUAL D-TYPE EDGE TRIGGER FLIP/FLOP	SO-14
74HC75	4-BIT BISTABLE LATCH	SO-16
74HC7540	OCTAL SCHMITT TRIGGER BUFFER/LINE DRIVER INV	SO-20
74HC7541	OCTAL SCHMITT TRIGGER BUFFER/LINE DRIVER N/INV	SO-20
74HC85	4-BIT MAGNITUDE COMPARATOR	SO-16
74HC86	QUAD 2-INPUT EXCLUSIVE-OR GATE	SO-14
74HC9014	NINE WIDE BUFFER W/SCHMITT TRIGGER	SO-20
74HC9114	NINE WIDE BUFFER W/SCHMITT TRIGGER	SO-20
74HC9115	NINE WIDE BUFFER W/SCHMITT TRIGGER	SO-20
74HC93	4-BIT BINARY COUNTER	SO-14

Alphanumeric Product Listing

Index

Alphanumeric Product Listing

Commercial

ADC0803C	8-BIT A/D CONVERTER 0 TO 70
ADC0803LC	8-BIT A/D CONVERTER -40 TO +85
ADC0804C	8-BIT A/D CONVERTER 0 TO 70
ADC0804LC	8-BIT A/D CONVERTER -40 TO +85
ADC0805C	8-BIT A/D CONVERTER 0 TO 70
ADC0805LC	8-BIT A/D CONVERTER -40 TO +85
ADC0820CNE	8-BIT CMOS A/D CONVERTER
AM26LS30C	RS-422/RS-423 LINE DRIVER
AM26LS30I	RS-422/423 LNE DRIVER -40 TO +85
AM26LS31C	QUAD HIGH SPEED LINE DRIVER
AM26LS31I	QUAD HIGH SPEED LINE DRIVER
AM26LS31M	QUAD HIGH SPEED LINE DRIVER
AM26LS32C	QUAD HIGH SPEED DIFF RECEIVER
AM26LS32I	QUAD HIGH SPEED DIFF RECEIVER
AM26LS32M	QUAD HIGH SPEED DIFF RECEIVER
AM26LS33C	QUAD HIGH SPEED DIFF RECEIVER
AM6012	12-BIT D/A CONVERTER
AU2902	AUTO QUAD OP AMP -40 TO +125
AU2904	AUTO DUAL OP AMP -40 TO +125
DAC-08	8-BIT D/A CONVERTER
DAC-08A	8-BIT D/A CONVERTER
DAC-08C	8-BIT D/A CONVERTER
DAC-08E	8-BIT D/A CONVERTER
DAC-08H	8-BIT D/A CONVERTER
DIGITALTV	ORDER DTV9051MSC
DTV7151	EVALUATION BOARD W/SAA7151
DTV7191	EVALUATION BOARD W/SAA7191
DTV9051	EVALUATION BOARD W/SAA9051
FCB61C65-70	SRAM 70NS STD POWER 8 × 8
FCB61C65L-70	SRAM 70NS LOW POWER 8K × 8
FCB61C65LL70	SRAM 70NS LLOW POWER 8K × 8
FCB61C65LL85	SRAM 85NS INDTEMP S06 8K × 8
HEF4000BP	DUAL 3-INPUT NOR GATE & INVERTER
HEF4000BT	DUAL 3-INPUT NOR GATE & INVERTER
HEF4001BP	QUADRUPLE 2-INPUT NOR GATE
HEF4001BT	QUADRUPLE 2-INPUT NOR GATE
HEF4001UBP	QUAD 2-INPUT NOR GATE: UNBUFFERED
HEF4002BP	DUAL 4-INPUT NOR GATE
HEF4002BT	DUAL 4-INPUT NOR GATE
HEF4006BP	18-STAGE STATIC SHIFT REGISTER
HEF4006BT	18-STAGE STATIC SHIFT REGISTER
HEF4007UBP	DUAL COMPLEMENTARY PREINVERTER
HEF4007UBT	DUAL COMPLEMENTARY PREINVERTER
HEF4008BT	4-BIT BINARY FULL ADDER
HEF40097BP	3-STAGE HEX NON-INVERTING BUFFER
HEF40097BT	3-STAGE HEX NON-INVERTING BUFFER
HEF40098BP	3-STAGE HEX INVERTING BUFFER
HEF40098BT	3-STAGE HEX INVERTING BUFFER
HEF40106BP	HEX SCHMITT TRIGGER
HEF40106BT	HEX SCHMITT TRIGGER
HEF4011BP	QUADRUPLE 2-INPUT NAND GATE
HEF4011BT	QUADRUPLE 2-INPUT NAND GATE
HEF4011UBP	QUAD 2-INPUT NAND GATE: UNBUFFERED
HEF4011UBT	QUAD 2-INPUT NAND GATE: UNBUFFERED
HEF4012BP	DUAL 4-INPUT NAND GATE
HEF4012BT	DUAL 4-INPUT NAND GATE
HEF4013BP	DUAL D-TYPE FLIP/FLOP
HEF4013BT	DUAL D-TYPE FLIP/FLOP
HEF4014BP	8-BIT STATIC SHIFT REGISTER
HEF4014BT	8-BIT STATIC SHIFT REGISTER
HEF4015BP	DUAL 4-BIT STATIC SHFT REGISTER
HEF4015BT	DUAL 4-BIT STATIC SHFT REGISTER
HEF4016BP	QUADRUPLE BILATERAL SWITCHES
HEF4016BT	QUADRUPLE BILATERAL SWITCHES
HEF40160BP	4-BIT SYNCHRON DECADE COUNTER
HEF40161BP	4-BIT SYNCHRON BINARY COUNTER
HEF40161BT	4-BIT SYNCHRON BINARY COUNTER
HEF40163BP	4-BIT SYNCHRON BINARY COUNTER
HEF40163BT	4-BIT SYNCHRON BINARY COUNTER
HEF4017BP	5-STAGE JOHNSON COUNTER
HEF4017BT	5-STAGE JOHNSON COUNTER
HEF40174BP	HEX D-TYPE FLIP/FLOP
HEF40174BT	HEX D-TYPE FLIP/FLOP
HEF40175BP	QUADRUPLE D-TYPE FLIP/FLOP
HEF40175BT	QUADRUPLE D-TYPE FLIP/FLOP
HEF4018BP	PRESETTABLE DIVIDE-BY-N COUNTER
HEF4018BT	PRESETTABLE DIVIDE-BY-N COUNTER
HEF4019BP	QUADRUPLE 2-INPUT MULTIPLEXER
HEF4019BT	QUADRUPLE 2-INPUT MULTIPLEXER
HEF40192BP	4-BIT UP/DOWN DECADE COUNTER
HEF40192BT	4-BIT UP/DOWN DECADE COUNTER
HEF40193BP	4-BIT UP/DOWN BINARY COUNTER
HEF40193BT	4-BIT UP/DOWN BINARY COUNTER
HEF40195BT	4-BIT UNIVERSAL SHIFT REGISTER
HEF4020BP	14-STAGE BINARY COUNTER
HEF4020BT	14-STAGE BINARY COUNTER
HEF4021BP	8-BIT STATIC SHIFT REGISTER
HEF4021BT	8-BIT STATIC SHIFT REGISTER
HEF4022BP	4-STAGE DIV-BY-8 JOHNSON COUNTER
HEF4022BT	4-STAGE DIV-BY-8 JOHNSON COUNTER
HEF4023BP	TRIPLE 3-INPUT NAND GATE
HEF4023BT	TRIPLE 3-INPUT NAND GATE
HEF4024BP	7-STAGE BINARY COUNTER
HEF4024BT	7-STAGE BINARY COUNTER
HEF40240BP	OCTAL BUFFER 3-STATE (INV)
HEF40244BP	OCTAL BUFFER W/ 3-STATE OUTPUTS
HEF40244BT	OCTAL BUFFER W/ 3-STATE OUTPUTS
HEF40245BP	OCTAL BUS TRANSCEIVER W/ 3-STATE OUTPUT
HEF4025BP	TRIPLE 3-INPUT NOR GATE
HEF4025BT	TRIPLE 3-INPUT NOR GATE
HEF4027BP	DUAL JK FLIP/FLOP
HEF4027BT	DUAL JK FLIP/FLOP
HEF4028BP	1-OF-10 DECODER
HEF4028BT	1-OF-10 DECODER
HEF4029BP	SYN UP/DOWN BIN DECADE COUNTER
HEF4029BT	SYN UP/DOWN BIN DECADE COUNTER
HEF4030BP	QUADRUPLE EXCLUSIVE-OR GATE
HEF4030BT	QUADRUPLE EXCLUSIVE-OR GATE
HEF4031BP	64-STAGE STATIC SHIFT REGISTER
HEF4035BP	4-BIT UNIVERSAL SHIFT REGISTER
HEF4035BT	4-BIT UNIVERSAL SHIFT REGISTER
HEF40373BP	OCT. TRANSPARENT LATCH W/ 3-STATE OUTPUT
HEF40373BT	OCT. TRANSPARENT LATCH W/ 3-STATE OUTPUT
HEF40374BP	OCTAL D-TYPE F-FLOP W/ 3-STATE OUTPUT

Alphanumeric Product Listing

HEF40374BT	OCT. D-TYPE F-FLOP W/ 3-STATE OUTPUT
HEF4040BP	12-STAGE BINARY COUNTER
HEF4040BT	12-STAGE BINARY COUNTER
HEF4041BP	QUAD TRUE/COMPLEMENT BUFFER
HEF4042BP	QUADRUPLE D-LATCH
HEF4042BT	QUADRUPLE D-LATCH
HEF4043BP	QUAD R/S LATCH W/ 3-STATE OUTPUT
HEF4043BT	QUAD R/S LATCH W/ 3-STATE OUTPUT
HEF4044BP	QUAD R/S LATCH W/ 3-STATE OUTPUT
HEF4044BT	QUAD R/S LATCH W/ 3-STATE OUTPUT
HEF4046BP	PHASE LOCKED LOOP
HEF4046BT	PHASE LOCKED LOOP
HEF4047BP	MONOSTABLE/ASTABLE MLTIVIBRATOR
HEF4047BT	MONOSTABLE/ASTABLE MLTIVIBRATOR
HEF4049BP	HEX INVERTING BUFFERS
HEF4049BT	HEX INVERTING BUFFERS
HEF4050BP	HEX NON-INVERTING BUFFERS
HEF4050BT	HEX NON-INVERTING BUFFERS
HEF4051BP	8-CHANNEL MUX/DEMUX
HEF4051BT	8-CHANNEL MUX/DEMUX
HEF4052BP	DUAL 4-CHANNEL MUX/DEMUX
HEF4052BT	DUAL 4-CHANNEL MUX/DEMUX
HEF4053BP	TRIPLE 2-CHANNEL MUX/DEMUX
HEF4053BT	TRIPLE 2-CHANNEL MUX/DEMUX
HEF4059BP	PROGRMABLE DIVIDE-BY-N COUNTER
HEF4059BT	PROGRMABLE DIVIDE-BY-N COUNTER
HEF4060BP	14-STAGE RC BIN CTR/DIV W/ OSC.
HEF4060BT	14-STAGE RC BIN CTR/DIV W/ OSC.
HEF4066BP	QUADRUPLE BILATERAL SWITCHES
HEF4066BT	QUADRUPLE BILATERAL SWITCHES
HEF4067BP	16-CHANNEL MUX/DEMUX
HEF4067BT	16-CHANNEL MUX/DEMUX
HEF4068BP	8-INPUT NAND GATE
HEF4068BT	8-INPUT NAND GATE
HEF4069UBP	HEX INVERTER
HEF4069UBT	HEX INVERTER
HEF4070BP	QUADRUPLE EXCLUSIVE-OR GATE
HEF4070BT	QUADRUPLE EXCLUSIVE-OR GATE
HEF4071BP	QUADRUPLE 2-INPUT OR GATE
HEF4071BT	QUADRUPLE 2-INPUT OR GATE
HEF4072BP	QUAL 4-INPUT OR GATE
HEF4072BT	DUAL 4-INPUT OR GATE
HEF4073BP	TRIPLE 3-INPUT AND GATE
HEF4073BT	TRIPLE 3-INPUT AND GATE
HEF4075BP	TRIPLE 3-INPUT OR GATE
HEF4075BT	TRIPLE 3-INPUT OR GATE
HEF4076BP	QUAD D-REGISTER 3-STATE
HEF4076BT	QUAD D-REGISTER 3-STATE
HEF4077BP	QUADRUPLE EXCLUSIVE-NOR GATE
HEF4077BT	QUADRUPLE EXCLUSIVE-NOR GATE
HEF4078BP	8-INPUT NOR GATE
HEF4078BT	8-INPUT NOR GATE
HEF4081BP	QUADRUPLE 2-INPUT AND GATE
HEF4081BT	QUADRUPLE 2-INPUT AND GATE
HEF4082BP	DUAL 4-INPUT AND GATE
HEF4082BT	DUAL 4-INPUT AND GATE
HEF4085BP	DUAL 2-WIDE 2-IN AND/OR INVERT
HEF4085BT	DUAL 2-WIDE 2-IN AND/OR INVERT
HEF4093BP	QUAD 2-IN NAND SCHMITT TRIGGER
HEF4093BT	QUAD 2-IN NAND SCHMITT TRIGGER
HEF4094BP	8-STAGE SHIFT-&-STORE BUS REGISTER
HEF4094BT	8-STAGE SHIFT-&-STORE BUS REGISTER
HEF4104BP	QUAD LOW TO HIGH VOLTAGE TRANSLATOR
HEF4104BT	QUAD LOW TO HIGH VOLTAGE TRANSLATOR
HEF4502BP	STROBED HEX INVERTER/BUFFER
HEF4502BT	STROBED HEX INVERTER/BUFFER
HEF4508BP	DUAL 4-BIT LATCH
HEF4510BP	BCD UP/DOWN COUNTER
HEF4510BT	BCD UP/DOWN COUNTER
HEF4511BP	BCD TO 7-SEG LATCH/DECODER/DRIVER
HEF4511BT	BCD TO 7-SEG LATCH/DECODER/DRIVER
HEF4512BP	8-INPUT MULT W/ 3-STATE OUTPUT
HEF4512BT	8-INPUT MULT W/ 3-STATE OUTPUT
HEF4514BP	1-OF-16 DECODER/DEMUX
HEF4514BT	1-OF-16 DECODER/DEMUX
HEF4515BP	1-OF-16 DECODER/DEMUX
HEF4515BT	1-OF-16 DECODER/DEMUX
HEF4516BP	BINARY UP/DOWN COUNTER
HEF4516BT	BINARY UP/DOWN COUNTER
HEF4517BP	DUAL 64-BIT STATIC SHIFT REGITER
HEF4518BP	DUAL BCD COUNTER
HEF4518BT	DUAL BCD COUNTER
HEF4519BT	QUADRUPLE 2-INPUT MUX
HEF4520BP	DUAL BINARY COUNTER
HEF4520BT	DUAL BINARY COUNTER
HEF4521BP	24-STAGE FREQUENCY DIVIDER
HEF4521BT	24-STAGE FREQUENCY DIVIDER
HEF4522BP	PROGRMMABLE 4-BIT BCD DOWN COUNTER
HEF4522BT	PROGRMMABLE 4-BIT BCD DOWN COUNTER
HEF4526BP	PROGRMMABLE 4-BIT BCD DOWN COUNTER
HEF4526BT	PROGRMMABLE 4-BIT BCD DOWN COUNTER
HEF4527BP	BCD RATE MULTIPLIER
HEF4527BT	BCD RATE MULTIPLIER
HEF4528BP	DUAL MONOSTABLE MULTIVIBRATOR
HEF4528BT	DUAL MONOSTABLE MULTIVIBRATOR
HEF4531BP	13-INPUT PARITY CHECKER/GEN
HEF4532BP	8-INPUT PRIORITY ENCODER
HEF4532BT	8-INPUT PRIORITY ENCODER
HEF4534BP	REAL TIME 5-DECADE COUNTER
HEF4538BP	DUAL PRECISION MONOSTABLE MULTIVIB
HEF4538BT	DUAL PRECISION MONOST MULTIVIB
HEF4539BP	DUAL 4-INPUT MULTIPLEXER
HEF4539BT	DUAL 4-INPUT MULTIPLEXER
HEF4541BP	PROGRAMMABLE TIMER
HEF4541BT	PROGRAMMABLE TIMER
HEF4543BP	BCD TO 7-SEG LATCH/DECODER/DRIVER
HEF4543BT	BCD TO 7-SEG LATCH/DECODER/DRIVER
HEF4555BP	DUAL 1-OF-4 DECODER/DEMUX
HEF4555BT	DUAL 1-OF-4 DECODER/DEMUX
HEF4556BP	DUAL 1-OF-4 DECODER/DEMUX
HEF4556BT	DUAL 1-OF-4 DECODER/DEMUX
HEF4557BP	1-TO-64-BIT VAR LENGTH SHIFT REGISTER
HEF4557BT	1-TO-64-BIT VAR LENGTH SHIFT REGISTER
HEF4585BP	4-BIT MAGNITUDE COMPARATOR
HEF4585BT	4-BIT MAGNITUDE COMPARATOR
HEF4724BP	8-BIT ADDRESSABLE LATCH
HEF4724BT	8-BIT ADDRESSABLE LATCH
HEF4731BP	QUAD 64-BIT STATIC SHIFT REGISTER
HEF4731VP	QUAD 64-BIT STATIC SHIFT REGISTER
HEF4737VP	QUAD STATIC DECADE COUNTERS
HEF4738VP	IEC/IEEE BUS INTERFACE
HEF4750VD	FREQUENCY SYNTHESIZER
HEF4751VD	UNIVERSAL DIVIDER
HEF4752VP	A.C. MOTOR CONTROL CIRCUIT

Alphanumeric Product Listing

HEF4752VPB	A.C. MOTOR CONTROL CIRCUIT
ICM7555C	CMOS TIMER
ICM7555I	CMOS TIMER -40 TO +85°C
I74F00	QUAD 2-IN NAND GATE IND TEMP
I74F02	QUAD 2-IN NOR GATE IND TEMP
I74F04	HEX INVERTER IND TEMP
I74F109	DUAL J-K POS EDGE FLIP/FLOP IND TEMP
I74F112	DUAL J-K NEG EDGE FLIP/FLOP IND TEMP
I74F113	DUAL J-K NEG EDGE FLIP/FLOP
I74F138	1-OF-8 DECODER/DEMUX IND TEMP
I74F14	HEX SCHMITT TRIGGER IND TEMP
I74F166	8-BIT SHIFT REGISTER IND TEMP
I74F175	QUAD D-TYPE FLIP/FLOP IND TEMP
I74F175A	QUAD D-TYPE FLIP/FLOP IND TEMP
I74F244	OCTAL BUS/LINE DRIVER IND TEMP
I74F27	TRIPLE 3-INPUT NOR GATE
I74F280B	9-BIT O/E PAR GEN CHECKER IND TEMP
I74F3037	QUAD 2-IN NAND TRN LN DRV IND
I74F32	QUAD 2-INPUT OR GATE IND TEMP
I74F38	QUAD 2-IN NAND BUF O/C IND TMP
I74F50728	SYNCH CASCADED DUAL D-TYPE FLIP/FLOP
I74F50729	SYNCH DUAL D F-F/ORJ/ER
I74F652A	BUS TRANS/REG NINV 3-STATE IND TEMP
I74F655A	OCT INV BUFF W/PARITY IND TEMP
I74F656A	OCT BUFFER W/PARITY G/C IND TEMP
I74F657	OCT BUFF W/PARITY G/C-IND TEMP
I74F74	DL D-TYPE EDGE TRIGGER FLIP/FLOP INDTMP
I74F776	OCT BIDIRECT P1-BUS XCVR IND TEMP
I74F786	4-INPUT ASYNCH BUS ARBITER
I74F823	9-BIT REG NINV 3-STATE IND TEMP
I74F86	QUAD EXCL OR GATE IND TEMP
LF198	SAMPLE-AND-HOLD AMPLIFIER
LF398	SAMPLE-AND-HOLD AMPLIFIER
LM124	QUAD OP AMPLIFIER
LM139	QUAD VOLTAGE COMPARATOR
LM211	VOLTAGE COMPARATOR -40 TO +85°C
LM219	DUAL COMPARATOR
LM224	QUAD OP AMPLIFIER
LM239	QUAD VOLTAGE COMPARATOR
LM239A	QUAD VOLTAGE COMPARATOR
LM258	DUAL OP AMPLIFIER
LM2901	QUAD VOLTAGE COMPARATOR
LM2902	QUAD OP AMPLIFIER
LM2903	DUAL VOLTAGE COMPARATOR
LM2904	DUAL OP AMPLIFIER
LM293	DUAL COMPARATOR
LM293A	DUAL COMPARATOR
LM311	VOLTAGE COMPARATOR
LM319	HIGH SPEED DUAL COMPARATOR
LM324	QUAD OP AMPLIFIER
LM324A	QUAD OP AMPLIFIER
LM339	QUAD VOLTAGE COMPARATOR
LM339A	QUAD VOLTAGE COMPARATOR
LM358	DUAL OP AMPLIFIER
LM358A	DUAL OP AMPLIFIER
LM393	DUAL COMPARATOR
LM393A	DUAL COMPARATOR
MC1408-6	8-BIT D/A CONVERTER
MC1408-7	8-BIT D/A CONVERTER
MC1408-8	8-BIT D/A CONVERTER
MC145406	CMOS RS232-D TRPLE RECEIVER DR
MC1458	DUAL OP AMPLIFIER
MC1488	QUAD LINE DRIVER
MC1489	QUAD LINE RECEIVER
MC1489A	QUAD LINE RECEIVER
MC1496	BALANCED MODULATOR-DEMODULATOR
MC1508-8	8-BIT D/A CONVERTER
MC1558	DUAL OP AMPLIFIER
MC1596	BALANCED MODULATOR-DEMODULATOR
MC3302	QUAD VOLTAGE COMPARATOR
MC3361	LOW POWER FM IF
MC3410	10-BIT D/A CONVERTER
MC3410C	10-BIT D/A CONVERTER
MULTIMASTER	I^2C PC INTERFACE W/SOFTWARE
NE4558	DUAL GENERAL PURPOSE OP AMP
NE5007	8-BIT D/A CONVERTER
NE5008	8-BIT D/A CONVERTER
NE5009	8-BIT D/A CONVERTER
NE5018	8-BIT D/A CONVERTER VOLT OUT
NE5019	8-BIT D/A CONVERTER VOLT OUT
NE502A	ETHERNET ENCODER/DECODER
NE5020	10-BIT D/A CONVERTER VOLT OUT
NE5037	6-BIT A/D PARALLEL OUTPUT
NE5044	PROGRAMMABLE 7 CHANNEL ENCODER
NE5050	POWER LINE MODEM
NE5050EVN	POWER LINE MODEM KIT
NE5080	LAN MODEM TRANSMITTER
NE5081	LAN MODEM RECEIVER
NE5090	ADDRESSABLE RELAY DRIVER
NE5170	OCTAL LINE DRIVER
NE5180	OCTAL LINE RECEIVERS
NE5181	OCTAL DIFF LINE RECEIVER
NE5204	HI FREQ AMP DC TO 350MHZ
NE5205	HI FREQ AMP DC TO 550MHZ
NE5209	WIDEBAND VARIABLE GAIN AMP
NE521	HIGH SPEED DUAL DIFF COMP
NE5210	280MHZ TRANSIMPEDANCE AMP
NE5211	180MHZ TRANSIMPEDANCE AMP
NE5212A	FIBER OPTIC TRANSIMPEDENCE AMP
NE5214	POST AMP WITH LINK STATUS INDI
NE5217	POST AMP WITH LINK STATUS INDI
NE522	HIGH SPEED DUAL DIFF COMP
NE5224	POST AMP-100K ECL DIF OUTPUT
NE5225	POST AMP-10K ECL DIF OUTPUT
NE5230	LOW VOLTAGE OP AMPLIFIER
NE5234	MATCHED QUAD HI-PERF OP AMP
NE527	HIGH SPEED COMPARATOR
NE529	HIGH SPEED COMPARATOR
NE531	HIGH SLEW RATE OP AMPLIFIER
NE532	DUAL OP AMPLIFIER
NE5410	10-BIT D/A CONVERTER
NE5512	DUAL HIGH PERFORMANCE OP AMP
NE5514	QUAD HIGH PERFORMANCE OP AMP
NE5517	HP DUAL TRANSCON AMPLIFIER
NE5517A	HP DUAL TRANSCON AMP-SELECT
NE5521	LVDT SIGNAL CONDITIONER
NE5532	DUAL LOW NOISE OP AMPLIFIER
NE5532A	DUAL LOW NOISE OP AMPLIFIER
NE5533	DUAL LOW NOISE OP AMPLIFIER
NE5533A	DUAL LOW NOISE OP AMPLIFIER
NE5534	LOW NOISE OP AMPLIFIER
NE5534A	LOW NOISE OP AMPLIFIER
NE5537	SAMPLE AND HOLD AMPLIFIER
NE5539	FAST WIDE BAND WIDTH OP AMP

Alphanumeric Product Listing

NE555	TIMER
NE556	DUAL TIMER
NE556-1	DUAL TIMER
NE5560	S.M.P.S. CONTROL CIRCUIT
NE5561	S.M.P.S. CONTROL CIRCUIT
NE5562	S.M.P.S.
NE5568	S.M.P.S. CONTROL CIRCUIT
NE5570	BRUSHLESS DC MOTOR CONTROLLER
NE558	QUAD TIMER
NE5592	DUAL VIDEO AMPLIFIER
NE564	HIGH FREQUENCY PHASE LOCKED LOOP
NE566	FUNCTION GENERATOR
NE567	TONE DECODER PHASE LOCKED LOOP
NE568	150MHZ PHASE LOCKED LOOP
NE570	COMPANDOR
NE571	COMPANDOR
NE572	PROGRAMMABLE COMPANDOR
NE575	LOW VOLTAGE COMPANDOR
NE575EVN	COMPANDOR EVALUATION BOARD
NE5750	AUDIO PROCESS-COMPANDOR/AMP SEC
NE5751	AUDIO PROCESS-FILTER/CTRL SEC
NE576	LOW POWER COMPANDOR
NE577	LOW POWER COMPANDOR W/PRG ODB
NE578	LOW POWER COMPANDOR W/PRG ODB
NE587	7 SEGMENT LED DRIVER (ANODE)
NE590	ADDRESSABLE PERIPHERAL DRIVERS
NE5900	CALL PROGRESS DECODER
NE591	ADDRESSABLE PERIPHERAL DRIVERS
NE592	VIDEO AMPLIFIER
NE592H	HIGH GAIN VIDEO AMPLIFIER
NE594	VACUUM FLORESNT DISPLAY DRIVER
NE602	DOUBLE BALANCE MIXER/OSCILLATOR
NE602A	DOUBLE BALANCE MIXER/OSCILLATOR
NE604A	HI PERFORMANCE FM IF
NE605	HI PERFORMANCE FM IF SYSTEM
NE605EVN	MIX/IF SYSTEM EVALUATION BOARD
NE606	LOW POWER HI PERF FM IF SYSTEM
NE612	DOUBLE BAL MIXER/OSCILLATOR
NE612A	DOUBLE BAL MIXER/OSCILLATOR
NE614A	LOW POWER FM IF SYSTEM
NE615	HI PERFORMANCE FM IF SYSTEM
NE615EVN	MIX/IF SYSTEM EVALUATION BOARD
NE8392A	ETHERNET COAXIAL TRANSCEIVER
NE86C92	10 BASE-T TRANSCEIVER
NE86950B	ETHERNET CONTROLLER
N3101A	64-BIT RAM (16 × 4) OC
N74ALS00A	QUAD 2-INPUT POSITIVE NAND GATE
N74ALS02	QUAD 2-INPUT POSITIVE NOR GATE
N74ALS04B	HEX INVERTER
N74ALS08	QUAD 2-INPUT POSITIVE AND GATE
N74ALS10A	TRIPLE 3-INPUT POSITIVE NAND GATE
N74ALS109A	DUAL JK FLIP/FLOP
N74ALS11A	TRIPLE 3-INPUT POSITIVE AND GATE
N74ALS139	DUAL 1 OF 4 DECODER/DEMULTIPLE
N74ALS151	SINGLE 8-TO-1 MUX
N74ALS153	DUAL 4-TO-1 MUX
N74ALS157	QUAD 2-INPUT MULTIPLEXER NINV
N74ALS158	QUAD 2-INPUT MULTIPLEXER INV
N74ALS161B	4-BIT BINARY COUNTER
N74ALS163B	4-BIT BINARY COUNTER
N74ALS164	8-BIT SERIAL IN/PARALLER OUT SH
N74ALS174	HEX D-TYPE FLIP/FLOP WITH CLEAR
N74ALS175	QUAD D-TYPE EDGE TRIGGERED FLIP/FLOP
N74ALS20A	DUAL 4-INPUT POSITIVE NAND GATE
N74ALS240A	OCTAL BUFFER/LINE DRIVER INV 3-STATE
N74ALS240A-1	OCTAL BUFFER/LINE DRIVER INV 3-STATE
N74ALS241A	OCTAL 3-STATE BUFFER
N74ALS241A-1	OCTAL 3-STATE BUFFER
N74ALS244A	OCT BUFFER/LINE DRIVER NON-INV 3-STATE
N74ALS244A-1	OCT BUFFER/LINE DRIVER NON-INV 3-STATE
N74ALS245A	OCTAL BUS TRANSCEIVER 3-STATE
N74ALS245A-1	OCTAL BUS TRANSCEIVER 3-STATE
N74ALS251	8-TO-1 MUX 3-STATE
N74ALS253	DUAL 4-TO-1 DATA SELECTOR MUX
N74ALS257	QUAD 2-INPUT MULTIPLEXER
N74ALS258	QUAD 2-TO-1 MUX 3-STATE
N74ALS27	TRIPLE 3-INPUT POS. NOR GATE
N74ALS273	OCTAL D-TYPE FLIP FLOP
N74ALS30A	8-BIT NAND GATE
N74ALS32	QUAD 2-INPUT POSITIVE OR GATE
N74ALS373	OCTAL TRANSPARENT LATCH 3-STATE
N74ALS374	OCTAL D FLIP/FLOP 3-STATE
N74ALS377	OCTAL D-TYPE FLIP/FLOP W/ ENABLE
N74ALS38A	QUAD 2-INPUT POS NAND BUFFER
N74ALS563A	OCT D TRANSPARENT LATCH 3-STATE
N74ALS564A	OCT D EDGE-TRIGGERED LATCH 3-STATE
N74ALS573B	OCTAL D TRANSPARENT LATCH 3-STATE
N74ALS574A	OCTAL D FLIP/FLOP 3-STATE
N74ALS620A-1	OCTAL BUS TRANSCEIVER INV 3-STATE
N74ALS623A-1	OCTAL BUS TRANSCEIVER NINV 3-STATE
N74ALS645A	OCTAL BUS TRANSCEIVER 3-STATE
N74ALS645A-1	OCTAL BUS TRANSCEIVER 3-STATE
N74ALS646	OCTAL BUS TRANSCEIVER/REG NON-INV
N74ALS646-1	OCTAL BUS TRANSCEIVER/REG NON-INV
N74ALS648	OCTAL BUS TRANSCEIVER/REG INV 3-STATE
N74ALS648-1	OCTAL BUX TRANSCEIVER/REG INV 3-STATE
N74ALS651	OCTAL BUS TRANSCEIVER/REG INV
N74ALS652	TRANSCEIVER/REGISTER NON-INV 3-STATE
N74ALS652-1	OCT TRANSCEIVER/REG, NON-INV 3-STATE
N74ALS74A	DUAL D-TYPE FLIP FLOP
N74ALS86	QUAD 2-INPUT EXCLUSIVE-OR GATE
N74F00	QUAD 2-INPUT NAND GATE
N74F02	QUAD 2-INPUT NOR GATE
N74F04	HEX INVERTER
N74F06	HEX INV BUFFER/DRIVER (OC)
N74F07	HEX INV BUFFER/DRIVER (OC)
N74F08	QUAD 2-INPUT AND GATE
N74F10	TRIPLE 3-INPUT NAND GATE
N74F109	DUAL J-K POS EDGE FLIP/FLOP
N74F11	TRIPLE 3-INPUT AND GATE
N74F112	DUAL J-K NEG EDGE FLIP/FLOP
N74F113	DUAL J-K NEG EDGE FLIP/FLOP
N74F114	DUAL J-K NEG EDGE FLIP/FLOP W/ RESET
N74F1240	OCTAL 3-STATE BUFFER
N74F1241	OCTAL BUS LINE DRIVER
N74F1242	QUAD BUS TRANSCEIVER
N74F1243	QUAD BUS TRANSCEIVER
N74F1244	OCTAL BUS/LINE DRIVER
N74F1245	OCTAL TRANSCEIVER 3-STATE
N74F125	QUAD 3-STATE BUS BUFFER
N74F126	QUAD 3-STATE BUS BUFFER
N74F13	DUAL NAND SCHMITT TRIGGER
N74F132	QUAD SCHMITT TRIGGER
N74F133	13-INPUT NAND GATE

Alphanumeric Product Listing

N74F138	1-OF-8 DECODER/DEMUX
N74F139	DUAL 2 TO 10-OF-4 DECODER/DEMUX
N74F14	HEX SCHMITT TRIGGER
N74F148	8-TO-3 PRIORITY ENCODER
N74F151	8-TO-1 MUX
N74F151A	8-TO-1 MUX
N74F153	DUAL 4-INPUT MULTIPLEXER
N74F154	4-TO-16 DECODER/DEMUX
N74F157	QUAD 2-IN DATA SELECTOR INV
N74F157A	QUAD 2-IN DATA SELECTOR INV
N74F158	QUAD 2-IN MULTIPLXR NON-INV
N74F158A	QUAD 2-INPUT MULTIPLEXER
N74F160A	SYNC. 4-BIT DECADE COUNTER
N74F1604	DUAL 8-BIT LATCH 3-STATE
N74F161A	SYNC. 4-BIT BINARY COUNTER
N74F162A	SYNC. 4-BIT DECADE COUNTER
N74F163A	SYNC. 4-BIT BINARY COUNTER
N74F164	8-BIT SIPO SHIFT REGISTER
N74F166	8-BIT SHIFT REGISTER
N74F168	SYN DECADE UP/DOWN COUNTER
N74F169	SYN BINARY UP/DOWN COUNTER
N74F173	QUAD 3-STATE D-TYPE FLIP/FLOP
N74F174	HEX D FLIP/FLOP WITH CLEAR
N74F175	QUAD D-TYPE FLIP/FLOP
N74F175A	QUAD D-TYPE FLIP/FLOP
N74F1762	MEM ADDRESS MULTIPLEXER
N74F1763	1MBIT INTELLIGENT DRAM CONTROLLER
N74F1764	DUAL PORT RAM CONTROLLER
N74F1764-1	DUAL PORT RAM CONTROLLER
N74F1765	DUAL PORT RAM CONTROLLER
N74F1765-1	DUAL PORT RAM CONTROLLER
N74F1766	BURST MODE DRAM CONTROLLER
N74F1779	8-BIT COUNTER
N74F1804	HEX 2-INPUT NAND DRIVER
N74F1805	HEX 2-INPUT NOR DRIVER
N74F1808	HEX 2-INPUT AND DRIVER
N74F181	4-BIT ARITHMETIC LOGIC UNIT
N74F182	FAST CARRY LOOKAHEAD GENERATOR
N74F1832	HEX 2-INPUT OR DRIVER
N74F189A	64-BIT RANDOM ACCESS MEM, INV 3-STATE
N74F190	DECADE UP/DOWN COUNTER
N74F191	BINARY UP/DOWN COUNTER
N74F192	DECADE UP/DOWN COUNTER
N74F193	4-BIT BINARY UP/DOWN COUNTER
N74F194	4-BIT SHIFT REGISTER
N74F195	4-BIT PARALLEL ACC. SHIFT REG.
N74F198	8-BIT SHIFT REGISTER
N74F199	8-BIT SHIFT REGISTER
N74F20	DUAL 4-INPUT NAND GATE
N74F219A	64-BIT RANDOM ACC MEM, NON-INV 3-STATE
N74F2240	OCTAL BUS DRIVER 30Ω OUTPUT
N74F2241	OCTAL BUD DRIVER 30Ω OUTPUT
N74F2244	OCTAL BUS DRIVER 30Ω DRIVER
N74F240	OCTAL 3-STATE BUFFER
N74F240A	OCTAL 3-STATE BUFFER
N74F241	OCTAL BUFFER 3-STATE
N74F241A	OCTAL BUS/LINE DRIVER
N74F242	QUAD BUS TRANSCEIVER
N74F243	QUAD BUS TRANSCEIVER
N74F244	OCTAL BUFFER 3-STATE
N74F244A	OCTAL BUS/LINE DRIVER
N74F245	OCTAL BUS TRANSCEIVER
N74F251	8-TO-1 MUX 3-STATE
N74F251A	8-TO-1 MUX 3-STATE
N74F253	DUAL 4-INPUT MULTIPLEXER 3-STATE
N74F256	DUAL 4-BIT ADDRESSABLE LATCH
N74F257	QUAD 2-TO-1 MUX 3-STATE
N74F257A	QUAD 2-TO-1 MUX 3-STATE
N74F258	QUAD 2-TO-1 MUX 3-STATE
N74F258A	QUAD 2-TO-1 MUX 3-STATE
N74F259	8-BIT ADDRESSABLE LATCH
N74F260	DUAL 5-INPUT NOR GATE
N74F269	8-BIT BIDIRECTIONAL BINARY COUNTER
N74F27	TRIPLE 3-INPUT NOR GATE
N74F273	OCTAL D-TYPE FLIP/FLOP
N74F280A	9-BIT ODD/EVEN PARITY GEN CHECKER
N74F280B	9-BIT ODD/EVEN PARITY GEN CHECKER
N74F283	4-BIT ADDER
N74F2952	OCT REGISTER XCVR, NON-INV 3-STATE
N74F2953	OCT REGISTER XCVR, INV 3-STATE
N74F298	QUAD-2-INPUT MUX W/ STORAGE
N74F299	OCTAL SHIFT/STORAGE REGISTER 3-STATE
N74F30	8-BIT NAND GATE
N74F30240	30Ω TRAN LINE/B DRIVER INV
N74F30244	30Ω TRANSM LNE/B DRIVER NON-INV
N74F30245	OCTAL 30Ω LINE DRIVER O/C
N74F3037	QUAD 2-IN NAND TRANS LINE DRIVER
N74F3038	30Ω TRANS LINE DRIVER
N74F3040	DUAL 4-IN NAND TRANS LINE DRIVER
N74F30640	OCTAL 30Ω LINE DRIVER O/C
N74F32	QUAD 2-INPUT OR GATE
N74F322	OCT SHIFT/STORAGE REG 3-STATE
N74F323	OCTAL SHIFT/STORAGE REGISTER 3-STATE
N74F350	4-BIT SHIFT W/ 3-STATE OUTPUT
N74F352	DUAL 4-INPUT MULTI (INVERT) 153
N74F353	DUAL 4-INPUT MULTI (INVERT) 253
N74F365	HEX BUFFER W/COMMON ENABLE, 3-STATE
N74F366	HEX INVERT W/COMMON ENABLE, 3-STATE
N74F367	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE
N74F368	HEX INVERT, 4-BIT & 2-BIT, 3-STATE
N74F37	QUAD 2-INPUT NAND BUFFER
N74F373	OCTAL 3-STATE LATCH
N74F374	OCTAL D-3-STATE FLIP/FLOP
N74F377	OCTAL D-TYPE FLIP/FLOP WITH ENABLE
N74F378	HEX D FLIP/FLOP WITH ENABLE
N74F379	QUAD D FLIP/FLOP WITH ENABLE
N74F379A	QUAD D FLIP/FLOP WITH ENABLE
N74F38	QUAD 2-INPUT NAND BUFFER O/C
N74F381	4-BIT ARITHMETIC LOGIC UNIT
N74F382	4-BIT ARITHMETIC LOGIC UNIT
N74F385	QUAD SERIAL ADDER/SUBTRACTOR
N74F3893	QUAD FUTUREBUS TRANSCEIVER
N74F393	DUAL BINARY RIPPLE COUNTER
N74F395	4-BIT CASCADABLE SHIFT REG 3-STATE
N74F398	4-BIT FLIP/FLOP TRUE AND COMP OUTPUT
N74F399	4-BIT FLIP/FLOP TRUE AND COMP OUTPUT
N74F40	DUAL 4-INPUT NAND BUFFER
N74F410	REGISTER STACK 16 × 4 RAM
N74F412	OCTAL BUFFERED LATCH
N74F432	OCTAL BUFFERED LATCH
N74F455	OCTAL INV BUFFER W/ PARITY
N74F456	OCTAL NON-INV BUFFER W/ PARITY
N74F50109	SYNCH. JK FLIP/FLOP DRIVER
N74F50728	SYNCH CASCADED DUAL D-TYPE FLIP/FLOP

Alphanumeric Product Listing

N74F50729	SYNCH DUAL D FLIP/FLOP DRIVER
N74F5074	SYNCH DUAL D FLIP/FLOPDRIVER
N74F51	DUAL 2-WIDE 2-INPUT AOI GATE
N74F521	8-BIT IDENT COMPARATOR
N74F524	8-BIT REGISTER COMPARATOR
N74F5300	FIBER OPTICS LED DRIVER
N74F5302	FIBER OPTIC DUAL LED DRIVER
N74F533	OCTAL 3-STATE LATCH INVERTING
N74F534	OCTAL D FLIP/FLOP 3-STATE INVERTING
N74F537	1-OF-10 DECODER 3-STATE
N74F538	1-OF-8 DECODER 3-STATE
N74F539	DUAL 1-OF-4 DECODER 3-STATE
N74F540	OCTAL 3-STATE DRIVER/BUFFER
N74F541	OCTAL 3-STATE DRIVER/BUFFER
N74F543	OCT TRANSCEIVER BIDIRECT LATCH
N74F544	OCT TRANSCEIVER BIDIRECT LATCH
N74F545	OCTAL BUS TRANSCEIVER
N74F547	OCT DECODER/MUX W/ LATCHES
N74F548	OCT DECODER/MUX W/ ACKNOWLEDGE
N74F552	OCT REG XCVR W/ PARITY/ST FLAGS
N74F563	OCTAL D-TYPE LATCH
N74F564	OCTAL D FLIP/FLOP
N74F568	4-BIT BCD DECADE UP/DOWN COUNTER
N74F569	4-BIT BINARY UP/DOWN COUNTER
N74F573	OCTAL D-TYPE LATCH
N74F574	OCTAL D FLIP/FLOP
N74F579	8-BIT COUNTER COMMON I/O, 3-STATE
N74F582	4-BIT BCD ALU
N74F583	4-BIT BCD ADDER
N74F588	GPIB COMPATIBLE OCTAL TRANSCEIVER
N74F595	8-BIT SHIFT REGISTER W/ LATCH
N74F597	8-BIT SHIFT REGISTER W /LATCH
N74F604	DUAL 8-BIT LATCH 3-STATE
N74F605	DUAL 8-BIT LATCH O/C
N74F620	OCTAL BUS TRANSCEIVER 3-STATE
N74F621	OCTAL BUS TRANSCEIVER O/C
N74F622	OCTAL BUS TRANSCEIVER O/C
N74F623	OCTAL BUS TRANSCEIVER 3-STATE
N74F64	AND/OR-INVERT GATE
N74F640	OCTAL BUS TRANSCEIVER
N74F641	OCTAL BUS TRANSCEIVER O/C
N74F642	OCTAL BUS TRANSCEIVER
N74F646	OCTAL BUS TRANSCEIVER AND REGISTER
N74F646A	OCTAL BUS TRANSCEIVER/REG NON-INV
N74F647	OCTAL BUS TRANSCEIVER AND REGISTER
N74F648	OCTAL BUS TRANSCEIVER AND REGISTER
N74F648A	OCTAL BUS TRANCEIVER AND REGISTER
N74F649	OCTAL BUS TRANSCEIVER AND REGISTER
N74F651	OCT TRANSCEIVER/REGISTER INV 3-STATE
N74F651A	OCTAL BUS TRAN AND REG INV 3-STATE
N74F652	OCT TRANS/REGISTER NON-INV 3-STATE
N74F652A	OCTAL BUS TRAN AND REG NINV3-STATE
N74F653	OCT XCVR/REGISTER INVERT O/C
N74F654	OCT XCVR/REGISTER NON-INV O/C
N74F655A	OCTAL INV BUFFER W/ PARITY
N74F656A	OCTAL NON-INV BUFFER W/ PARITY
N74F657	OCTAL BUFFER W/PARITY GEN/CHEK
N74F670	4 × 4 REGISTER FILE
N74F674	16-BIT SHIFT REGISTER
N74F676	16-BIT SHIFT REGISTER SIPO
N74F711-1	QUINT 2-INPUT MUX 30Ω TERM
N74F711A	QUINT 2-INPUT MUX 30Ω TERM
N74F712-1	QUINT 3-INPUT MUX 30Ω TERM
N74F712A	QUINT 3-INPUT MUX 30Ω TERM
N74F723-1	QUAD 3-INPUT MUX 30Ω TERM
N74F723A	QUAD 2-INPUT MULTIPLEXER
N74F725-1	QUAD 3-INPUT MUX 30Ω TERM
N74F725A	QUAD 3-INPUT MULTIPLEXER
N74F732	QUAD DATA MULTIPLEXER, NON-INV
N74F733	QUAD DATA MULTIPLEXER, INVERTING
N74F74	DUAL D-TYPE EDGE TRIGGER FLIP/FLOP
N74F755	OCTAL MAILBOX REG W/ READY FLAG
N74F756	OCTAL BUS LINE DRIVER INV (O.C.)
N74F757	OCTAL BUS LINE DRIVER, NON-INV (O.C.)
N74F760	OCTAL BUS LINE DRIVER, INV
N74F764	DUAL PORT RAM CONTROLLER
N74F764-1	DRAM DUAL-PORT CONTROLLER W/ LATCH
N74F765	DUAL PORT RAM CONTROL W/O LATCH
N74F765-1	DRAM DUAL-PORTED CONTROLLER
N74F776	OCT BIDIRECT P1-BUS XCVR (OC)
N74F777	TRIPLE BIDIRECT LATCH BUS TRANSCEIVER
N74F779	8-BIT COUNTER
N74F786	4-INPUT ASYNCH BUS ARBITER
N74F804	HEX 2-INPUT NAND DRIVER
N74F805	HEX 2-INPUT NOR DRIVER
N74F807	OCTAL SHIFT/COUNTER REG XCVR ADD
N74F808	HEX 2-INPUT AND DRIVER
N74F821	10-BIT REGISTER, NINV 3-STATE
N74F822	10-BIT REGISTER, INV 3-STATE
N74F823	9-BIT REGISTER NON-INV 3-STATE
N74F824	9-BIT REGISTER INV 3-STATE
N74F825	8-BIT REGISTER NON-INV 3-STATE
N74F826	8-BIT REGISTER, INV 3-STATE
N74F827	10-BIT BUFFER/DRIVER NON-INV 3-STATE
N74F828	10-BIT BUFFER/DRIVER INV 3-STATE
N74F83	4-BIT BINARY FULL ADDER RIPPLE
N74F832	HEX 2-INPUT OR DRIVER
N74F835	LATCHED OCT SHIFT REGISTER 2=1 MUX
N74F841	10-BIT LATCH NON-INVERTING 3-STATE
N74F842	10-BIT LATCH INVERTING 3-STATE
N74F843	9-BIT LATCH, NON-INV 3-STATE
N74F844	9-BIT LATCH INVERTING 3-STATE
N74F845	8-BIT LATCH, NON-INV 3-STATE
N74F846	8-BIT LATCH INVERTING 3-STATE
N74F85	4-BIT MAGNITUDE COMPARATOR
N74F86	QUAD EXCL OR GATE
N74F861	10-BIT BUS TRANCEIVER NON-INV 3-STATE
N74F862	10-BIT BUS TRANCEIVER INV 3-STATE
N74F863	9-BIT BUS TRANCEIVER NON-INV 3-STATE
N74F864	9-BIT BUS TRANCEIVER INV 3-STATE
N74F881	ALU FUNCTION GENERATOR
N74F882	32-BIT CARRY LOOK-AHEAD GEN
N74F8960	OCTAL LATCHED BIDIRECTIONAL FUTUREBUS
N74F8961	OCT BIDIRECT FUTUREBUS XCVR NON-INV OC
N74F8962	9BIT LTCHD BIDIRECT FBUS INV
N74F8963	9BIT LTCH BIDIRECT FBUS NON-IV
N74F8965	9-BIT LATCHD BIDIRECT TRANS FUTUREBUS INV
N74F8966	9-BIT LATCHD BIDIRECT TRANS FUTUREBUS INV
N74LS00	QUAD 2-INPUT NAND GATE
N74LS01	QUAD 2-INPUT NAND GATE OC
N74LS02	QUAD 2-INPUT NOR GATE
N74LS04	HEX INVERTER
N74LS05	HEX INVERTER OC
N74LS08	QUAD 2-INPUT AND GATE

Alphanumeric Product Listing

N74LS09	QUAD 2-INPUT AND GATE OC
N74LS10	TRIPLE 3-INPUT NAND GATE
N74LS107	DUAL J-K MASTER-SLAVE FLIP/FLOP
N74LS109A	DUAL J-K POSITIVE EDGE FLIP/FLOP
N74LS11	TRIPLE 3-INPUT AND GATE
N74LS112	DUAL J-K NEG EDGE FLIP/FLOP
N74LS113	DUAL J-K POS EDGE FLIP/FLOP
N74LS125A	QUAD 3-STATE BUS BUFFER
N74LS126A	QUAD 3-STATE BUS BUFFER
N74LS13	DUAL NAND SCHMITT TRIGGER
N74LS132	QUAD SCHMITT TRIGGER
N74LS136	QUAD EXCLUSIVE OR OC
N74LS138	3-TO-1-OF-8 DECODER/DEMUX
N74LS139	DUAL 2-TO-10-OF-4 DECDR/DEMUX
N74LS14	HEX SCHMITT TRIGGER
N74LS151	SINGLE 8-TO-1 MUX
N74LS153	DUAL 4-TO-1 MUX
N74LS154	4-TO-16 DECODER/DEMUX
N74LS155	DUAL 2-TO-4 DECODER/DEMUX
N74LS156	DUAL 2-TO-4 DECODER/DEMUX OC
N74LS157	QUAD 2-IN DATA SELECTOR NON-INV
N74LS158	QUAD 2-IN DATA SELECTOR INV
N74LS160A	SYNC. 4-BIT DECADE COUNTER
N74LS161A	SYNC. 4-BIT BINARY COUNTER
N74LS162A	SYNC. 4-BIT DECADE COUNTER
N74LS163A	SYNC. 4-BIT BINARY COUNTER
N74LS164	8-BIT SIPO S/R
N74LS169A	SYD BINARY U/D COUNTER
N74LS173	QUAD 3-STATE D-TYPE FLIP/FLOP
N74LS174	HEX D-TYPE FLIP/FLOP WITH CLEAR
N74LS175	QUAD D-TYPE EDGE TRIGGERED FLIP/FLOP
N74LS191	SYNC BINARY UP/DOWN COUNTER
N74LS192	SYNC DECADE UP/DOWN COUNTER
N74LS193	4-BIT BINARY UP/DOWN COUNTER
N74LS20	DUAL 4-INPUT NAND GATE
N74LS21	DUAL 4-INPUT AND GATE
N74LS240	OCTAL 3-STATE BUFFER
N74LS241	OCTAL 3-STATE BUFFER
N74LS242	QUAD BUS TRANSCEIVER
N74LS243	QUAD BUS TRANSCEIVER
N74LS244	OCTAL 3-STATE DRIVER
N74LS245	OCTAL TRANSCEIVER
N74LS253	DUAL 4-TO-1 DATA SELECTOR/MUX
N74LS256	DUAL 4-BIT ADDRESSABLE LATCH
N74LS257A	QUAD 2-TO-1 MUX 3-STATE
N74LS258A	QUAD 2-TO-1 MUX 3-STATE
N74LS259	8-BIT ADDRESSABLE LATCH
N74LS26	QUAD 2-INPUT NAND GATE OC
N74LS260	DUAL 5-INPUT NOR GATE
N74LS266	QUAD EXCLUSIVE OR, O/C
N74LS273	OCTAL D-TYPE FLIP/FLOP
N74LS283	4-BIT ADDER
N74LS290	DECADE COUNTER
N74LS293	4-BIT BINARY COUNTER
N74LS298	QUAD 2-IN MUX, W/ STORAGE
N74LS30	8-INPUT NAND GATE
N74LS301	256-BIT RAM LOW POWER (256 × 1) OC
N74LS32	QUAD 2-INPUT OR GATE
N74LS33	QUAD 2-INPUT NOR BUFFER
N74LS352	DUAL 4-TO-1 LINE MULTIPLEXER
N74LS353	DUAL 4-TO-1 LINE MULTIPLEXER 3-STATE
N74LS365A	HEX BUFFER W/ COMMON ENABLE, 3-STATE
N74LS366A	HEX INVERT W/ COMMON ENABLE, 3-STATE
N74LS367A	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE
N74LS368A	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE
N74LS37	QUAD 2-INPUT NAND BUFFER
N74LS373	OCTAL 3-STATE LATCH
N74LS374	OCTAL D FLIP/FLOP, 3-STATE
N74LS377	OCTAL D-TYPE FLIP/FLOP WITH ENABLE
N74LS378	HEX D FLIP/FLOP WITH ENABLE
N74LS38	QUAD 2-INPUT NAND BUFFER OC
N74LS390	DUAL DECADE RIPPLE COUNTER
N74LS393	DUAL BINARY RIPPLE COUNTER
N74LS395A	4-BIT CASCADABLE SHIFT/REG 3-STATE OUT
N74LS490	DUAL DECADE RIPPLE COUNTER
N74LS51	DUAL 2-WIDE 2-INPUT AOI
N74LS533	INV OCTAL D-LATCH 3-STATE
N74LS534	OCTAL CLOCKED LATCH INV
N74LS54	4-WIDE-2 INPUT AOI GATE
N74LS540	OCTAL 3-STATE DRIVER/BUFFER
N74LS541	OCTAL 3-STATE DRIVER/BUFFER
N74LS620	OCTAL TRANSCEIVER 3-STATE
N74LS621	OCTAL BUS TRANSCEIVER 3-STATE
N74LS622	OCTAL TRANSCEIVER 3-STATE
N74LS623	OCTAL BUS TRANSCEIVER
N74LS640	OUTPUT BUS TRANSCEIVER
N74LS640-1	OUTPUT BUS TRANSCEIVER (OC)
N74LS641	OCTAL BUS TRANSCEIVER
N74LS641-1	OCTAL BUS TRANSCEIVER
N74LS642	OCTAL BUS TRANSCEIVER
N74LS642-1	OCTAL BUS TRANSCEIVER
N74LS645	OCTAL BUS TRANSCEIVER
N74LS645-1	OCTAL BUS TRANSCEIVER
N74LS670	4 × 4 REGISTER FILE, 3-STATE
N74LS73	DUAL J-K MASTER-SLAVE FLIP/FLOP
N74LS74A	DUAL D-TYPE EDGE-TRIGGERED FLIP/FLOP
N74LS76	DUAL J-K MASTER-SLAVE FLIP/FLOP
N74LS83A	4-BIT FULL ADDER
N74LS85	4-BIT MAGNITUDE COMPARATOR
N74LS86	QUAD 2-INPUT EXCLUSIVE OR GATE
N74LS90	DECADE COUNTER
N74LS92	DIVIDE-BY-12 COUNTER
N74LS93	4-BIT BINARY COUNTER
N74LS96	5-BIT SHIFT REGISTER
N74S00	QUAD 2-INPUT NAND GATE
N74S02	QUAD 2-INPUT NOR GATE
N74S03	QUAD 2-INPUT NAND GATE OC
N74S04	HEX INVERTER
N74S05	HEX INVERTER OC
N74S08	QUAD 2-INPUT AND GATE
N74S10	TRIPLE 3-INPUT NAND GATE
N74S11	TRIPLE 3-INPUT AND GATE
N74S112	DUAL J-K NEG EDGE FLIP/FLOP
N74S133	13-INPUT NAND GATE
N74S134	3-STATE 12-INPUT NAND GATE
N74S138	3-TO-8 DECODER/DEMUX
N74S139	DUAL 2-TO-10-OF-4 DECODER/DEMU
N74S140	DUAL 4-INPUT NAND LINE DRIVER
N74S151	8-TO-1 MUX
N74S153	DUAL 4-TO-1 MUX
N74S157	QUAD 2-TO-1 DATA SELECT/MUX NON-INV
N74S158	QUAD 2-TO-1 DATA SELECT/MUX INV
N74S174	HEX D FLIP/FLOP WITH CLEAR
N74S175	QUAD D-TYPE FLIP/FLOP

Alphanumeric Product Listing

N74S189	64-BIT RAM (16 × 4) TS
N74S194	4-BIT SHIFT REGISTER
N74S195	4-BIT PARALLEL SHIFT REGISTER
N74S20	DUAL 4-INPUT NAND GATE
N74S225	FIFO
N74S240	OCTAL 3-STATE BUFFER
N74S241	OCTAL 3-STATE BUFFER
N74S244	OCTAL 3-STATE DRIVER
N74S251	3-STATE DATA SELECTOR/MUX
N74S253	DUAL 4-TO-1 DATA SELECTOR/MUX
N74S257	QUAD 2-TO-1 DATA SELECTOR/MUX
N74S258	QUAD 2-TO-1 DATA SELECTOR/MUX
N74S260	DUAL 5-INPUT NOR GATE
N74S273	OCTAL D FLIP/FLOP
N74S280	9-BIT ODD/EVEN PARITY GENERATOR CHECKER
N74S301	256-BIT RAM (256 × 1) OC
N74S32	QUAD 2-INPUT OR GATE
N74S37	QUAD 2-INPUT NAND BUFFER
N74S373	OCTAL 3-STATE LATCH
N74S374	OCTAL D-FLIP/FLOP, 3-STATE
N74S38	QUAD 2-INPUT NAND BUFFER OC
N74S40	DUAL 4-INPUT NAND BUFFER
N74S51	DUAL 2-WIDE 2-INPUT AOI GATE
N74S534	OCTAL D-FLIP/FLOP, 3-STATE
N74S64	4-2-3-2 INPUT AOI GATE
N74S74	DUAL D-TYPE EDGE-TRIGGER FLIP/FLOP
N74S85	4-BIT MAGNITUDE COMPARATOR
N74S86	QUAD 2-INPUT EXCLUSIVE OR GATE
N7400	QUAD 2-INPUT NAND GATE
N7402	QUAD 2-INPUT NOR GATE
N7403	QUAD 2-INPUT NAND GATE OC
N7404	HEX INVERTER
N7405	HEX INVERTER OC
N7406	HEX INV BUFFER/DRIVER OC
N7407	HEX BUFFER/DRIVER OC
N7408	QUAD 2-INPUT AND GATE
N7410	TRIPLE 3-INPUT NAND GATE
N74121	MONOSTABLE MULTIVIBRATOR
N74123	RETRIG MONOSTABLE MULTI
N74125	QUAD 3-STATE BUS BUFFER
N74126	QUAD 3-STATE BUS BUFFER
N7414	HEX SCHMITT TRIGGER
N74145	BCD TO DEC DECODER/DRVR OC
N74150	16 TO 1 MUX
N74154	4 TO 16 DECODER/DEMUX
N74157	QUAD 2-IN DATA SELECTOR
N74158	QUAD 2-IN DATA SELECTOR
N7416	HEX INV BUFFER/DRIVER OC
N74164	8-BIT SIPO S/R
N74166	8-BIT SHIFT REGISTER
N7417	HEX BUFFER/DRIVER OC
N74174	HEX D-TYPE FLIP/FLOP WITH CLEAR
N74175	QUAD D-TYPE EDGE TRIGGERED FLIP/FLOP
N74192	SYNC DECADE UP/DOWN COUNTER
N74193	SYNC 4-BIT UP/DOWN COUNTER
N74194	4-BIT BIDIRECTIONAL S/R
N74199	8-BIT SHIFT REGISTER
N7420	DUAL 4-INPUT NAND GATE
N7425	DUAL 4-INPUT NOR W/STORAGE
N7426	QUAD 2-INPUT NAND GATE OC
N7432	QUAD 2-INPUT OR GATE
N7433	QUAD 2-INPUT NOR BUFFER
N74365A	HEX BUFFER W/ COMMON ENABLE 3-STATE
N74366A	HEX INVERT W/ COMMON ENABLE 3-STATE
N74367A	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE
N74368A	HEX INVERT, 4-BIT & 2-BIT, 3-STATE
N7437	QUAD 2-INPUT NAND BUFFER
N7438	QUAD 2-INPUT NAND BUFFER OC
N7439	QUAD 2-INPUT NAND BUFFER OC
N7440	DUAL 4-INPUT NAND BUFFER
N7445	BCD/DEC DECODER/DRIVER
N7451	DUAL 2-WIDE 2 INPUT AOI GATE
N7474	DUAL D-TYPE EDGE-TRIGGERED FLIP/FLOP
N7485	4-BIT MAGNITUDE COMPARATOR
N7486	QUAD 2-INPUT EXCLUSIVE OR GATE
N7490	DECADE COUNTER
N7492	DIVIDE-BY-TWELVE COUNTER
N7493	4-BIT BINARY COUNTER
N8T09	QUAD 3-STATE BUS DRIVER
N8T13	DUAL LINE DRIVER
N8T20	BIDI MONOSTABLE (DIFFIN)
N8T23	DUAL IBM 360/370 INTF DRIVER
N8T24	TRIPLE IBM 360/370 INTF RECEIVER
N8T26A	QUAD BUS DRIVER/RECEIVER, 3-STATE
N8T34	QUAD BUS TRANSCEIVER
N8T37	HEX BUS RECEIVER W/ HYSTERESIS
N8T38	QUAD BUS TRANSCEIVER OC
N8T95	HEX BUFFER W/ COMMON ENABLE, 3-STATE
N8T96	HEX INVERT W/ COMMON ENABLE, 3-STATE
N8T97	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE
N8T98	HEX INVERT, 4-BIT & 2-BIT, 3-STATE
N8X01A	CRC GENERATOR CHECKER
N8X305	8-BIT BIPOLAR MICROCONTROLLER
N8X310	INTERRUPT CONTROL CO-PROCESSOR
N8X320	8/16-BIT I/O REGISTER ARRAY
N8X350	2048-BIT 8 × 300 RAM (256 × 8) TS
N8X371	8-BIT BIDIRECTIONAL I/O PORT
N8X372	8-BIT I/O PORT
N8X372-000	8-BIT I/O PORT
N8X372-001	8-BIT I/O PORT
N8X372-002	8-BIT I/O PORT
N8X372-003	8-BIT I/O PORT
N8X372-004	8-BIT I/O PORT
N8X372-005	8-BIT I/O PORT
N8X372-006	8-BIT I/O PORT
N8X372-007	8-BIT I/O PORT
N8X372-008	8-BIT I/O PORT
N8X372-009	8-BIT I/O PORT
N8X372-010	8-BIT I/O PORT
N8X372-011	8-BIT I/O PORT
N8X372-012	8-BIT I/O PORT
N8X372-013	8-BIT I/O PORT
N8X372-014	8-BIT I/O PORT
N8X372-015	8-BIT I/O PORT
N8X376	8-BIT I/O PORT
N8X376-005	8-BIT I/O PORT
N8X376-006	8-BIT I/O PORT
N8X376-014	8-BIT I/O PORT
N8X376-015	8-BIT I/O PORT
N8X401	8-BIT MCU
N8X41	AUTO DIR BUS TRANSCEIVER
N8X60	FIFO RAM CONTROLLER
N82HS195	16K PROM (4096 × 4) TS 45NS
N82HS195A	16K PROM (4096 × 4) TS 35NS

Alphanumeric Product Listing

N82HS195B	16K PROM (4096 × 4) TS 25NS
N82HS321	32K PROM (4096 × 8) TS 45NS
N82HS321A	32K PROM (4096 × 8) TS 35NS
N82HS321B	32K PROM (4096 × 8) TS 30NS
N82HS641	64K PROM (8192 × 8) TS 55NS
N82HS641A	64K PROM (8192 × 8) TS 45NS
N82HS641B	64K PROM (8192 × 8) TS 35NS
N82LS135	2K PROM (256 × 8) TS 100NS
N82LS16	256-BIT RAM LOW POWER (256 × 1) TS
N82S09	576-BIT RAM (64 × 9) 45NS
N82S09A	576-BIT RAM (64 × 9) 35NS
N82S115	4K PROM (512 × 8) LATCHED 24P
N82S123	256-BIT PROM (32 × 8) TS 50NS
N82S123A	256-BIT PROM (32 × 8) TS 25NS
N82S126	1K PROM (256 × 4) OC 50NS
N82S126A	1K PROM (256 × 4) OC 30NS
N82S129	1K PROM (256 × 4) TS 50NS
N82S129A	1K PROM (256 × 4) TS 27NS
N82S130	2K PROM (512 × 4) OC 50NS
N82S130A	2K PROM (512 × 4) OC 33NS
N82S131	2K PROM (512 × 4) TS 50NS
N82S131A	2K PROM (512 × 4) TS 30NS
N82S135	2K PROM (256 × 8) TS 45NS
N82S137	4K PROM (1K × 4) TS 60NS
N82S137A	4K PROM (1K × 4) TS 45NS
N82S137B	4K PROM (1K × 4) TS 35NS
N82S141	4K PROM (512 × 8) TS 60NS
N82S141A	4K PROM (512 × 8) TS 45NS
N82S147	4K PROM (512 × 8) TS 60NS
N82S147A	4K PROM (512 × 8) TS 45NS
N82S147B	4K PROM (512 × 8) TS 25NS
N82S16	256-BIT RAM (256 × 1) TS
N82S181	8K PROM (1024 × 8) TS 70NS
N82S181A	8K PROM (1024 × 8) TS 55NS
N82S181C	8K PROM (1024 × 8) TS 35NS
N82S183	8192-BIT LATCH PROM (1024 × 8) TS
N82S185	8K PROM (2048 × 4) TS 100NS
N82S185A	8K PROM (2048 × 4) TS 50NS
N82S185B	8K PROM (2048 × 4) TS 45NS
N82S185C	8K PROM (2048 × 4) TS 30NS
N82S19	576-BIT RAM (64 × 9) OC 35NS
N82S191	16K PROM (2048 × 8) TS 80NS
N82S191A	16K PROM (2048 × 8) TS 35NS
N82S191C	16K PROM (2048 × 8) TS 35NS
N82S212	2304-BIT RAM (256 × 9) TS 45NS
N82S212A	2304-BIT RAM (256 × 9) TS 35NS
N82S23	256-BIT PROM (32 × 8) OC 50NS
N82S23A	256-BIT PROM (32 × 8) OC 25NS
N82S25	64-BIT RAM (16 × 4) OC
N82S62	9-BIT PARITY GENERATOR/CHECKER
N8274	10-BIT P/IN-S/OUT REGISTER
N9310	DECADE COUNTER
N9316	4-BIT BINARY COUNTER
N9324	5-BIT COMPARATOR
N9401	CRC GENERATOR CHECKER
N9403	EXPANDABLE FIFO BUFFER MEMORY
N9602	DUAL RETRIG 1-SHOT
OM1016S1	I2C DEMO KIT
OM1070	PROBE FOR PCF84C85
OM1071	PROBE FOR PCD3344
OM1072	PROBE FOR PCF84C230/430
OM1073	PROBE FOR PCF84C121
OM1076	PROBE FOR PCD3346
OM1077	PROBE FOR PCF84C270
OM1081	PROBE FOR PCF84C853A
OM1083	PROBE FOR PCF84C21/41/81/12/42
OM1087A	SDS SYSTEM WITH TRACE
PCAN-EVAL	CAN CONTRLER EVALUT(BI)-OM4130
PCA3344B	PIGGYBACK FOR PCD3344/47/49
PCA3346B	PIGGYBACK FOR PCD3346
PCA5000AT	POCSAG PAGER DECODER
PCA82C200P	CAN SERIAL BUS INTERFACE
PCA82C200T	CAN SERIAL BUS INTERFACE VSO40
PCA84C121B	PIGGYBACK FOR PCF84C121
PCA84C430B	PIGGYBACK FOR PCF84C430
PCA84C85B	PIGGYBACK FOR PCF84C85
PCA84C853B	PIGGYBACK FOR PCF84C853
PCA8582BP	256 × 8 EEPROM I^2C BUS
PCA8582BT	256 × 8 EEPROM I^2C BUS
PCB80C31-5	ORDER SC80C31BCYN40 (33MHZ)
PCD3310AP	PULSE TONE DIALLER 3:2 M/S
PCD3310AT	PULSE TONE DIALLER 3:2 M/S
PCD3310P	PULSE TONE DIALLER 2:1 M/S
PCD3311CP	DTMF/MODEM/MUSICAL GENERATOR
PCD3311CT	DTMF/MODEM/MUSICAL GENERATOR
PCD3311P	ORDER PCD3311CPN
PCD3311T	ORDER PCD3311CTD
PCD3312CP	DTMF/MODEM/MUSICAL GENERATOR
PCD3312CT	DTMF/MODEM/MUSICAL GENERATOR
PCD3312P	ORDER PCD3312CPN
PCD3312T	ORDER PCD3312CTD
PCD3315P	PULSE DIALER/CONTROLLER
PCD3341T	LOW V MC 8K, 256B ,I^2C I/O
PCD3343P	LOW V UC 3K 224B I2C
PCD3343T	LOW V UC 3K 224B I2C
PCD3344P	LOW VOLTAGE UC DTMF 2K 224-BYTE
PCD3344T	LOW VOLTAGE UC DTMF 2K 224-BYTE
PCD3346P	TELEPHONY MICRO WITH EEPROM
PCD3346T	TELEPHONEY MICRO WITH EEPROM
PCD3347T	LOW VOLTAGE UC DTMF 1.5K 64-BYTES
PCD3348P	LOW VOLTAGE UC I^2C 8K 256-BYTES
PCD3348T	LOW VOLTAGE UC 1^2C 8K 256-BYTES
PCD3349	LOW VOLTAGE MC W/I2C DIMF 4K 224-BYTES
PCD3349T	LOW VOLTAGE UC DTMF 4K 128 BYTES
PCD3360P	PROG TONE GENERATOR
PCD3360T	PROG TONE GENERATOR
PCD4420P	DTMF DIALER W/KEYBOARD INTERFACE
PCD4421P	DTMF DIALER W/KEYBOARD INTERFACE
PCD4421T	DTMF DIALLER W/KEYBOARD INTERFACE
PCD8582DP	256 × 8 EEPROM I^2C-BUS
PCD8582DT	256 × 8 EEPROM I^2C-BUS
PCD8584P	PARALLEL TO I^2C CONVERTER
PCD8584T	PARALLEL TO I^2C CONVERTER
PCF1252-0P	VOLTAGE DETECTOR 4.75V
PCF1252-0T	VOLTAGE DETECTOR 4.75V
PCF1252-1P	VOLTAGE DETECTOR 4.55V
PCF1252-1T	VOLTAGE DETECTOR 4.55V
PCF1252-2P	VOLTAGE DETECTOR 4.25V
PCF1252-2T	VOLTAGE DETECTOR 4.25V
PCF1252-3P	VOLTAGE DETECTOR 4.05
PCF1252-3T	VOLTAGE DETECTOR 4.05V
PCF1252-4P	VOLTAGE DETECTOR 3.75V
PCF1252-4T	VOLTAGE DETECTOR 3.75V
PCF1252-5P	VOLTAGE DETECTOR 3.55V

Alphanumeric Product Listing

PCF1252-5T	VOLTAGE DETECTOR 3.55V
PCF1252-6P	VOLTAGE DETECTOR 3.20V
PCF1252-6T	VOLTAGE DETECTOR 3.20V
PCF1252-7P	VOLTAGE DETECTOR 3.05V
PCF1252-7T	VOLTAGE DETECTOR 3.05V
PCF1252-8P	VOLTAGE DETECTOR 2.75V
PCF1252-8T	VOLTAGE DETECTOR 2.75V
PCF1252-9P	VOLTAGE DETECTOR 2.55V
PCF1252-9T	VOLTAGE DETECTOR 2.55V
PCF1303T	LCD BARGRAPH DRIVER
PCF2100P	LCD DUPLEX DRIVER (40-SEGMENT)
PCF2100T	LCD DUPLEX DRIVER (40-SEGMENT)
PCF2110P	LCD DUPLEX DRIVER W/ LED DRIVE
PCF2110T	LCD DUPLEX DRIVER W/ LED DRIVE
PCF2111P	LCD DUPLEX DRIVER (60-SEGMENT)
PCF2111T	LCD DUPLEX DRIVER (60-SEGMENT)
PCF2112P	32-SEGMENT STATIC LCD DRIVER
PCF2112T	32-SEGMENT STATIC LCD DRIVER
PCF8200P	CMOS SPEECH SYNTHESIZER
PCF84C00B	DEVELOPMENT TOOL FOR 84CXXMICR
PCF84C00T	DEV TOOL FOR PCF84CXX MICR
PCF84C12P	LOW VOLTAGE UC 1K 64B
PCF84C12T	LOW VOLTAGE UC 1K 64B
PCF84C121P	UC 256 × 8RAM 1KROM 8 × 8 EEPROM
PCF84C121T	UC 256 × 8RAM 1KROM 8 × 8 EEPROM
PCF84C21P	LOW VOLTAGE UC 2K 64B I²C
PCF84C21T	LOW VOLTAGE UC 2K 64B I²C
PCF84C22P	LV UC 2K 64-BYTES
PCF84C22T	LV UC 2K 64-BYTES
PCF84C230P	UC 64 × 8RAM 2K ROM W/LCD DRIVER
PCF84C230T	UC 64 × 8RAM 2KROM W/LCD DRIVER
PCF84C270P	LV UC 2K 128 BYTES KYBD INTF.
PCF84C41P	LOW V UC 4K 128B I²C
PCF84C41T	LOW V UC 4K 128B I²C
PCF84C42P	MICRO WITH 4K/64 BYTES
PCF84C42T	MICRO WITH 4K/64 BYTES
PCF84C430H	UC W/ I²C W/LCD DRIVER
PCF84C633T	UC 256 × 8 RAM 8KROM 16BIT TIMER
PCF84C81P	LOW V UC 8K 256B I²C
PCF84C81T	LOW V UC 8K 256B I²C
PCF84C85P	LOW V UC 8K 256B I²C 32 I/O
PCF84C85T	LOW VUC 8K 256B I²C 32 I/O
PCF84C853P	UC 256 × 8RAM 8KROM 16-BITTIMER
PCF84C853T	UC 256 × 8RAM 8KROM 16-BIT TIMER
PCF8566P	24/48/72/96 SEG LCD DRIVER I²C
PCF8566T	24/48/72/96 SEG LCD DRIVER I²C
PCF8570P	256X8 SRAM I²C
PCF8570T	256X8 SRAM I²C
PCF8571P	128X8 SRAM I²C
PCF8571T	128X8 SRAM I²C
PCF8573P	CLOCK CALENDAR I²C
PCF8573T	CLOCK CALENDAR I²C
PCF8574AP	EXTENDED I/O EXPANDER I²C
PCF8574AT	I/O EXPANDER I²C
PCF8574P	I/O EXPANDER I²C
PCF8574T	I/O EXPANDER I²C
PCF8576T	40/80/120/160 SEG DRIVER I²C
PCF8577CP	32/64 SEG DRIVER I²C
PCF8577CT	32/64 SEG DRIVER I²C
PCF8578T	DOT MATRIX LCD DRIVER (R/COLM)
PCF8579T	DOT MATRIX LCD DRIVER (COLUMN)
PCF8581CP	128 × 8 EEPROM I²C-BUS 8-PIN DIP
PCF8581CT	128 × 8 EEPROM I²C-BUS SO-8L
PCF8581P	128 × 8 EEPROM I²C-BUS 8-PIN DIP
PCF8581T	128 × 8 EEPROM I²C-BUS SO-8L
PCF8582CP	256 × 8 EEPROM I²C-BUS 8-PIN DIP
PCF8582CT	256 × 8 EEPROM I²C-BUS SO-16L
PCF8582EP	256 × 8 EEPROM I²C BUS 8-PIN DIP
PCF8582ET	256 × 8 EEPROM I²C BUS SO-8
PCF8583P	CLOCK CALENDAR W 256 × 8SRAM I²C
PCF8583T	CLOCK CALENDAR W 256 × 8SRAM I²C
PCF8591P	8-BIT ADC/DAC I²C
PCF8591T	8-BIT ADC/DAC I²C
PHD16N8-5	20-PIN HIGH SPEED DECODER
PHD48N22-7	68-PIN HIGH SPEED DECODER
PLC18V8ZI	ZERO POWER-40NS IND UNIV PAL
PLC18V8Z25	ZERO POWER-25NS COM UNIV PAL
PLC18V8Z35	ZERO POWER-35NS COM UNIV PAL
PLC415-16	PLD CMOS SEQUENCER TS 16MHZ
PLC42VA12	CMOS MULTIFUNCTION PLD
PLHS501	PLD PROG MACRO LOGIC (32 × 72 × 24
PLS100	PLD LOGIC ARRAY (16 × 48 × 8) TS
PLS101	PLD LOGIC ARRAY (16 × 48 × 8) OC
PLS105	PLD SEQNCR (16 × 48 × 8) TS 14MHZ
PLS105A	PLD SEQNCR (16 × 48 × 8) TS 20MHZ
PLS153	PLD FPLA (18 × 32 × 10) TS P
PLS153A	PLD FPLA (18 × 32 × 10) TS 30NS P
PLS155	PLD SEQNCR (16 × 45 × 12) TS 4-BIT
PLS157	PLD SEQNCR (16 × 45 × 12) TS 6-BIT
PLS159A	PLD SEQNCR (16 × 45 × 12) 18MHZ
PLS167	PLD FPLA (1248 × 6) 14MHZ
PLS167A	PLD FPLA (12 × 48 × 6) 20MHZ
PLS168	PLD FPLS 14HMZ 12 × 48 × 8 300 MIL
PLS168A	PLD FPLS 20MHZ 12 × 48 × 8 300 MIL
PLS173	PLD FPLA 30NS 22 × 42 × 10 300 MIL
PLS179	FIELD PROGRAMMABLE LOGIC SEQUENCER
PLUS105-45	SEQNCR (16 × 48 × 8) 45MHZ 300 MIL
PLUS105-55	SEQNCR (16 × 48 × 8) 55MHZ 300 MIL
PLUS153-10	PLA (18 × 32 × 10) TPD 10NS
PLUS153B	PLD PLA (18 × 32 × 10) TPD 15NS
PLUS153D	PLD PLA (18 × 32 × 10) TPD 12NS
PLUS16L8-7	PLD PAL* STYLE DEVICE
PLUS16L8D	PLD PAL* STYLE DEVICE
PLUS16R4-7	PLD PAL* STYLE DEVICE
PLUS16R4D	PLD PAL* STYLE DEVICE
PLUS16R6-7	PLD PAL* STYLE DEVICE
PLUS16R6D	PLD PAL* STYLE DEVICE
PLUS16R8-7	PLD PAL* STYLE DEVICE
PLUS16R8D	PLD PAL* STYLE DEVICE
PLUS173-10	PLA (22 × 32 × 10) TPD 10NS
PLUS173B	PLD PLA (22 × 32 × 10) TPD 15NS
PLUS173D	PLD PLA (22 × 32 × 10) TPD 12NS
PLUS20L8-7	PLD PAL* STYLE DEVICE
PLUS20L8D	PLD PAL* STYLE DEVICE
PLUS20R4-7	PLD PAL* STYLE DEVICE
PLUS20R4D	PLD PAL* STYLE DEVICE
PLUS20R6-7	PLD PAL* STYLE DEVICE
PLUS20R6D	PLD PAL* STYLE DEVICE
PLUS20R8-7	PLD PAL* STYLE DEVICE
PLUS20R8D	PLD PAL* STYLE DEVICE
PLUS405-37	PLD SEQNCR (16 × 64 × 8) TS 37MHZ
PLUS405-45	PLD SEQNCR (16 × 64 × 8) TS 45MHZ
PLUS405-55	PLD SEQNCR (16 × 64 × 8) TS 55MHZ
PL22V10-12	E2 UNIV PAL 12NS TPD

Alphanumeric Product Listing

PL22V10-15	E2 UNIV PAL 15NS TPD DIL
PML2552-35	CMOS ERAS HI-DENSITY PML TPD 35NS
PML2552-50	CMOS ERAS HI-DENSITY PML TPD 50NS
PMP-51	8051 FAM PROGRAMER SEE PPA-XXX
PNA7509	7-BIT A/D, 22MHZ
PNA7509T	7-BIT A/D, 22MHZ
PNA7518	8-BIT D/A, 20MHZ
PORT	I²C PC INTERFACE W/ SOFTWARE
PPA-EPROM	PMP-51 ADAPTER EPROM
PPA-054	PMP-51 ADAPTER 87C054
PPA-451	PMP-51 ADAPTER 87C451
PPA-451A	PMP-51 ADAPTER 87C451
PPA-51X	PMP-51 ADAPTER
PPA-51XA	PMP-51 ADAPTER
PPA-550	PMP-51 ADAPTER 87C550
PPA-550A	PMP-51 ADAPTER 87C550
PPA-552A	PMP-51 ADAPTER 87C552
PPA-592A	PMP-51 ADAPTER 87C592
PPA-751	PMP-51 ADAPTER 87C751
PPA-751A	PMP-51 ADAPTER 87C751
PPA-752	PMP-51 ADAPTER 87C752
PPA-752A	PMP-51 ADAPTER 87C752
P80CL410HF	RMLS/128 1.8-6V 16MHZ
P80C32EBA	ROMLESS/256 16MHZ COM TEM
P80C32EBB	ROMLESS/256 16MHZ COM TEMP
P80C32EBP	ROMLESS/256 16MHZ COM TEMP
P80C32EFA	ROMLESS/256 16MHZ EXT TEM
P80C32EFB	ROMLESS/256 16MHZ EXT TEMP
P80C32EFP	ROMLESS/256 16MHZ EXT TEMP
P80C32GBA	ROMLESS/256 20MHZ COM TEM
P80C32GBB	ROMLESS/256 20MHZ COM TEMP
P80C32GBP	ROMLESS/256 20MHZ COM TEMP
P80C32GFA	ROMLESS/256 20MHZ EXT TEM
P80C32GFB	ROMLESS/256 20MHZ EXT TEMP
P80C32GFP	ROMLESS/256 20MHZ EXT TEMP
P80C52EBA	8K/256 ROM 16MHZ COM TEMP
P80C52EBB	8K/256 ROM 16MHZ COM TEMP
P80C52EBP	8K/256 ROM 16MHZ COM TEMP
P80C52EFA	8K/256 ROM 16MHZ EXT TEMP
P80C52EFB	8K/256 ROM 16MHZ EXT TEMP
P80C52EFP	8K/256 ROM 16MHZ EXT TEMP
P80C52GBA	8K/256 ROM 20MHZ COM TEMP
P80C52GBB	8K/256 ROM 20MHZ COM TEMP
P80C52GBP	8K/256 ROM 20MHZ COM TEMP
P80C52GFA	8K/256 ROM 20MHZ EXT TEMP
P80C52GFB	8K/256 ROM 20MHZ EXT TEMP
P80C52GFP	8K/256 ROM 20MHZ EXT TEMP
P80C550EBA	ROMLESS/128 A/D 16MHZ COM TEMP
P80C550EBP	ROMLS/128 A/D 16MHZ COM TEMP
P80C550EFA	ROMLESS/128 A/D 16MHZ EXT TEMP
P80C550EFP	ROMLESS/128 A/D 16MHZ EXT TEMP
P8051DB	8051 FAMILY DEMO BOARD
P8051LCPX	8051 FAMILY PROGRAMMER-24/28/68
P8051LCP40	8051 FAMILY PROGRAMMER
P83CL410HF	4K/128 ROM 16MHZ EXT TEM
P83C053BBP	8K/192 ROM 12MHZ COM TEM
P83C054BBP	16K/192 ROM 12MHZ
P83C550EBA	4K/128 ROM A/D 16MHZ COMM TEMP
P83C550EBP	4K/128 ROM A/D 16MHZ COM TEMP
P83C550EFA	4K/128 ROM A/D 16MHZ EXT TEMP
P83C550EFP	4K/128 ROM A/D 16MHZ EXT TEMP
P85CL000HF	DEVELOPMENT TOOL FOR 83CL410
P87C054BBP	16K/192 OTP 12MHZ
P87C52EBA	8K/256 OTP 16MHZ COM TEMP
P87C52EBB	8K/256 OTP 16MHZ COM TEMP
P87C52EBF	8K/256 EPROM 16MHZ COM TEMP
P87C52EBL	8K/256 EPROM 16MHZ COM TEMP
P87C52EBP	8K/256 OTP 16MHZ COM TEMP
P87C52EFA	8K/256 OTP 16MHZ EXT TEMP
P87C52EFB	8K/256 OTP 16MHZ EXT TEMP
P87C52EFF	8K/256 EPROM 16MHZ EXT TEMP
P87C52EFL	8K/256 EPROM 16MHZ EXT TEMP
P87C52EFP	8K/256 OTP 16MHZ EXT TEMP
P87C52GBA	8K/256 OTP 20MHZ COM TEMP
P87C52GBB	8K/256 OTP 20MHZ COM TEMP
P87C52GBF	8K/256 EPROM 20MHZ COM TEMP
P87C52GBL	8K/256 EPROM 20MHZ COM TEMP
P87C52GBP	8K/256 OTP 20MHZ COM TEMP
P87C52GFA	8K/256 OTP 20MHZ EXT TEMP
P87C52GFB	8K/256 OTP 20MHZ EXT TEMP
P87C52GFF	8K/256 EPROM 20MHZ EXT TEMP
P87C52GFL	8K/256 EPROM 20MHZ EXT TEMP
P87C52GFP	8K/256 OTP 20MHZ EXT TEMP
P87C528EBA	32K/512 OTP 16MHZ COM TEM
P87C528EBF	32K/512 EPROM 16MHZ COM TEMP
P87C528EBL	32K/512 EPROM 16MHZ COM TEMP
P87C528EBP	32K/512 OTP 16MHZ COM TEMP
P87C528EFA	32K/512 OTP 16MHZ EXT TEM
P87C528EFF	32K/512 EPROM 16MHZ EXT TEMP
P87C528EFL	32K/512 EPROM 16MHZ EXT TEMP
P87C528EFP	32K/512 OTP 16MHZ EXT TEMP
P87C528GBA	32K/512 OTP 20MHZ COM TEM
P87C528GBF	32K/512 EPROM 20MHZ COM TEMP
P87C528GBL	32K/512 EPROM 30MHZ COM TEMP
P87C528GBP	32K/512 OTP 20MHZ COM TEMP
P87C528GFA	32K/512 OTP 20MHZ EXT TEM
P87C528GFF	32K/512 EPROM 20MHZ EXT TEMP
P87C528GFL	32K/512 EPROM 20MHZ EXT TEMP
P87C528GFP	32K/512 OTP 20MHZ EXT TEMP
P87C550EBA	4K/128 OTP A/D 16MHZ COM TEMP
P87C550EBF	4K/128 EPROM A/D 16MHZ COM TEM
P87C550EBL	4K/128 EPROM A/D 16MHZ COM TEM
P87C550EBP	4K/128 OTP A/D 16MHZ COM TEMP
P87C550EFA	4K/128 OTP A/D 16MHZ EXT TEMP
P87C550EFF	4K/128 EPROM A/D 16MHZ EXT TEM
P87C550EFL	4K/128 EPROM A/D 16MHZ EXT TEM
P87C550EFP	4K/128 OTP A/D 16MHZ EXT TEMP
P90CDS	90C100 MCO FAMILY DEV SYSTEM
P90C100AB	RMLS/512 68000 MCU 15MHZ 0-70°C
P93C100AB	34K/512 ROM 6800 MUC 15MHZ
SAA1027	STEPPER MOTOR DRIVER
SAA1043P	UNIVERSAL SYNC GENERATOR
SAA1043T	UNIVERSAL SYNC GENERATOR
SAA1044P	SUBCARRIER COUPLING
SAA1044T	SUBCARRIER COUPLING I.C.
SAA1057	AM/FM FREQ SYNTHESIZER
SAA1064P	4-BIT LED DRIVER I²C
SAA1099P	STEREO SOUND SYNTHESIZER
SAA1101P	UNIVERSAL SYNC GEN. 5V
SAA1101T	UNIVERSAL SYNC GEN 5V
SAA1300	TUNER SWITCHING CIRCUIT
SAA3004P	REMOTE CONTROL TRANSMITTER
SAA3004T	REMOTE CONTROL TRANSMITTER
SAA3007P	LV IR TRANSMITTER 38KHZ

Alphanumeric Product Listing

SAA3010P	IR TRANSMITTER
SAA3010T	IR TRANSMITTER
SAA3049P	REMOTE CONTROL DECODER
SAA5231	VIDEO PROCESSOR
SAA5245P	COMPUTR CONTRL TELETEXT IC525L
SAA7151WP	DIGITAL MULTISTANDARD DECODER
SAA7157AP	CLOCK GENERATOR CIRCUIT
SAA7157AT	CLOCK GENERATOR CIRCUIT
SAA7191WP	DIGITAL MULTISTD VIDEO DECODER
SAA7192AWP	DIGITAL COLOR SPACE CONVERTER
SAA7192WP	DIGITAL COLOR SPACE CONVERTER
SAA7197AP	CLOCK GENERATOR CIRCUIT
SAA7197AT	CLOCK GENERATOR CIRCUIT
SAA7220	DIGITAL FILTER AND INTERPOLATO
SAA7274P	AUDIO DIGITAL INPUT CIRCUIT
SAA7310GP	COMPACT DISC DECODER
SAA7322GP	BITSTREAM AUDIO DAC + FILTER
SAA7323GP	BITSTREAM AUDIO DAC + FILTER
SAA7350GP	20-BIT STEREO BITSTREAM DAC
SAA7351GP	20-BIT STEREO BITSTREAM DAC
SAA9051WP	DIGITAL MULTISTANDARD DECORDER
SAA9056	S-VHS SECAM DECODER
SAA9057AP	CLOCK GENERATOR CIRCUIT
SAA9057AT	CLOCK GENERATOR CIRCUIT
SAA9060P	VIDEO PROCESSOR WITH DAC'S
SAB3035	FLL VIDEO TUNING CKT (CITAC)
SAB3036	FLL VIDEO TUNING CKT (CITAC)
SAB3037	FLL VIDEO TUNING CKT (CITAC)
SAB6456	1GHZ PRESCALER
SAB6456T	1GHZ PRESCALER
SA1458	DUAL OP AMP
SA4558	DUAL GENERAL PURPOSE OP AMP
SA5090	ADDRESSABLE RELAY DRIVER
SA5204	HI FREQ AMP DC TO 350MHZ
SA5205	HI FREQ AMP DC TO 550MHZ
SA5209	WIDEBAND VARIABLE GAIN AMP
SA5211	180 MHZ TRANSIMPEDANCE AMP
SA5212A	FIBER OPTIC TRANSIMPEDANCE
SA5214	POST AMP WITH LINK STATUS IND
SA5217	POST AMP WITH LINK STATUS IND
SA5224	POST AMP-100K ECL DIF OUTPUT
SA5225	POST AMP-10K ECL DIF OUTPUT
SA5230	LOW VOLTAGE OP AMP
SA5234	MATCHED QUAD HI-PERF OP AMP
SA532	DUAL OP AMPLIFIER
SA534	QUAD OF AMPLIFIER
SA5512	DUAL-HIGH PERFORMANCE OP-AMP
SA5521	LVDT SIGNAL CONDITIONER
SA5534	LOW NOISE OP AMPLIFIER
SA5534A	LOW NOISE OP AMPLIFIER
SA555	TIMER
SA556	DUAL TIMER
SA571	COMPANDOR
SA572	PROGRAMMABLE COMPANDOR
SA575	LOW VOLTAGE COMPANDOR
SA5750	AUDIO PROCESS-COMPANDOR/AMP SEC
SA5751	AUDIO PROCESS-FILER/CTRL SEC
SA576	LOW POWER COMPANDOR
SA577	LOW POWER COMPANDOR W/PRG ODB
SA578	LOW POWER COMPANDOR W/PRG ODB
SA592	VIDEO AMPLIFIER
SA594	VACUUM FLORESCENT DISPLAY DRIVER
SA602	ORDER SA602AN
SA602A	DOUBLE BAL MIXER/OSCILLATOR
SA604A	HI PERF FM IF
SA605	HI PERF FM IF SYSTEM
SA606	LOW PWR HI PERF FM IF SYSTEM
SA612A	DOUBLE BAL MIXER/OSCILLATOR
SA614A	LOW POWER FM IF SYSTEM
SA615	HI PERF FM IF SYSTEM
SA741C	GENERAL PURPOSE OP AMPLIFIER
SA747C	DUAL OP AMPLIFIER
SBE68070	68070 SINGLE BOARD EMULATOR
SCB2675BC5	COLOR/MONO ATTR CONTR 25MHZ
SCB2675CC5	COLOR/MONO ATTR CONTR 25MHZ VT
SCB2675TC4	COLOR/MONO ATTR CONTR 40MHZ
SCB68154C2	VME INTERRUPT GENERATOR
SCB68155CA	VME INTERRUPT HANDLER
SCB68172C2	VME BUS CONTROLLER 25MHZ
SCB68430CA	DMAI 68K COMPATIBLE 10MHZ
SCB68430CC	DMAI 68K COMPATIBLE 12MHZ
SCC2691AC1	CMOS UART
SCC2691AE1	CMOS UART -40 TO 85°C
SCC2692AA1	CMOS DUART -40 TO +85°C
SCC2692AC1	CMOS DUART(CMOS 2681)
SCC2692AE1	CMOS DUART -40 TO 85°C
SCC2698BA1	ORDER SCC2698BE1N64
SCC2698BC1	CMOS OCTAL UART W/PROGRAM INTERRUPT
SCC2698BE1	CMOS OCTAL UART IND TEMP
SCC63484C8	ADVANCED CRT CONTROLLER
SCC66470AA	VIDEO & SYSTEM CONTROLLER -40 TO +85°C
SCC66470CA	VIDEO & SYSTEM CONTROLLER 0 TO 70°C
SCC68070AA	ORDER SCC68070ABA84
SCC68070AB	16/32-BIT MPU 12.5MHZ -40 TO +85°C
SCC68070AC	16/32-BIT MPU 15MHZ 0 TO 70°C
SCC68070CA	ORDER SCC68070CBA84
SCC68070CB	16/32-BIT MPU 12.5MHZ 0 TO 70°C
SCC68070CC	16/32-BIT MPU 15MHZ 0 TO 70°C
SCC68070CD	16/32BIT MPU 17.5MHZ 0 TO 70°C
SCC68692C1	68K CMOS DUART (CMOS 68681)
SCC68692E1	CMOS DUART IND TEMP DIP
SCN2641CC1	ASYNC COMM INTERFACE ACI
SCN2651CC1	PCI
SCN2652AC2	MPCC 2 MHZ
SCN26542C2	DUAL MULTIPROTOCOL SERIAL CONT
SCN26562C2	DUAL UNIV COMM CONTRLR (DUSCC)
SCN26562C4	DUAL UNIV COMM CONTRLR (DUSCC)
SCN2661AA1	ENHANCED PCI EXT TEMP CERAMIC
SCN2661AC1	ENHANCED PCI
SCN2661BA1	ENHANCED PC1 EXTENDED TEMP
SCN2661BC1	ENHANCED PCI
SCN2661CC1	ENHANCED PCI
SCN2672BC4	VIDEO TIMING CONTROLLER 4.0MHZ
SCN2672TC5	VIDEO TIMING CTRL TURBO 5.0MHZ
SCN2674BC4	ADVANCED VIDEO TIMING 4.0 MHZ
SCN2674TC5	ADV VIDEO TIMING TURBO 5.5 MHZ
SCN2681AA1	ORDER SCN2681AE1N40
SCN2681AC1	DUART
SCN2681AE1	DUART -40 TO +85°C
SCN2681TC1	NMOS DUART FAST BUS TIMING
SCN68000CA	16-BIT MICROPROCESSOR 10MHZ
SCN68000C8	16-BIT MICROPROCESSOR 8MHZ
SCN68542C2	DUAL MULTI-PROTOCAL SERIAL CTR
SCN68562C2	DUAL UNIV COMM CONTROLLER (DUSCC)

Alphanumeric Product Listing

SCN68562C4	DUAL UNIV COMM CONTROLLER (DUSCC)
SCN68681A1	ORDER SCN68681E1N40
SCN68681C1	DUART 68K COMPATIBLE
SCN68681E1	68K DUART IND TEMP
SCN8031HAC	ROMLESS/128 12MHZ EXT TEM
SCN8031HAF	ROMLESS/128 15MHZ EXT TEM
SCN8031HCC	RMLS/128 12MHZ COMM TEMP
SCN8031HCF	RMLS/128 15MHZ COMM TEMP
SCN8032HAC	ROMLESS/256 12MHZ EXT TEMP
SCN8032HAF	RMLS/256 15MHZ EXT TEMP
SCN8032HCC	RMLS/256 12 MHZ COMM TEMP
SCN8032HCF	RMLS/256 15MHZ COMM TEMP
SCN8039HAB	RMLS/128 11MHZ EXT TEMP
SCN8039HCB	RMLS/128 11MHZ COMM TEMP
SCN8040HCB	RMLS/256 11MHZ COMM TEMP
SCN8049HAB	2K/128 ROM 11MHZ EXT TEMP
SCN8049HCB	2K/128 ROM 11MHZ COMM TEMP
SCN8050HCB	4K/256 ROM 11MHZ COMM TEMP
SCN8051HAC	4K/128 ROM 12MHZ EXT TEMP
SCN8051HAF	4K/128 ROM 15MHZ EXT TEMP
SCN8051HCC	4K/128 ROM 12MHZ COMM TEMP
SCN8051HCF	4K/128 ROM 15MHZ COMM TEMP
SCN8052HAC	8K/256 ROM 12MHZ EXT TEMP
SCN8052HAF	8K/256 ROM 15MHZ EXT TEMP
SCN8052HCC	8K/256 ROM 12MHZ COMM TEMP
SCN8052HCF	8K/256 ROM 15MHZ COMM TEMP
SC26C94C1	QUAD CMOS UART
SC68C94C1	QUAD CMOS UART
SC80C31BAC	ROMLESS/128 12MHZ EXT TEMP
SC80C31BAG	ROMLESS/128 16MHZ EXT TEMP
SC80C31BAP	ROMLESS/128 24MHZ EXT TEMP
SC80C31BAY	ROMLESS/128 33MHZ EXT TEMP
SC80C31BCB	RMLS/128 .5-12MHZ COM TEMP
SC80C31BCC	ROMLESS/128 12MHZ COM TEMP
SC80C31BCG	ROMLESS/128 16MHZ COM TEMP
SC80C31BCL	ORDER SC80C31BCPN40 24MHZ
SC80C31BCP	ROMLESS/128 24MHZ COM TEMP
SC80C31BCY	ROMLESS/128 33MHZ COM TEMP
SC80C451AC	RMLS/128 56I/O 12MHZ EXT TEMP
SC80C451AG	RMLS/128 56I/O 16MHZ EXT TEMP
SC80C451CC	RMLS/128 56I/O 12MHZ COM TEMP
SC80C451CG	RMLS/128 56I/O 16MHZ COM TEMP
SC80C51BAC	4K/128 ROM 12MHZ EXT TEMP
SC80C51BAG	4K/128 ROM 16MHZ EXT TEMP
SC80C51BAP	4K/128 ROM 24MHZ EXT TEMP
SC80C51BAY	4K/128 ROM 33MHZ EXT TEMP
SC80C51BCB	4K/128 ROM.5-12MHZ COM TEMP
SC80C51BCC	4K/128 ROM 12MHZ COM TEMP
SC80C51BCG	4K/128 ROM 16MHZ COM TEMP
SC80C51BCL	ORDER SC80C51BCPN40 24MHZ
SC80C51BCP	4K/128 ROM 24MHZ COM TEMP
SC80C51BCY	4K/128 ROM 33MHZ COM TEMP
SC83C451AC	4K/128 ROM 56I/O 12MHZ EXT TEM
SC83C451AG	4K/128 ROM 56I/O 12MHZ EXT TEM
SC83C451CC	4K/128 ROM 56I/O 12MHZ COM TEM
SC83C451CG	4K/128 ROM 56I/O 16MHZ COMTEMP
SC87C451AB	4K/128 OTP 56I/O .5-12MHZ EXT
SC87C451AC	4K/128 OTP 56I/O 12MHZ EXT TEM
SC87C451AG	4K/128 OTP 56 I/O 16MHZ EXT TP
SC87C451CB	4K/128 OTP 56I/O .5-12MHZ 0 - 70°C
SC87C451CC	4K/128 OTP 56I/O 12MHZ COM TEM
SC87C451CG	4K/128 OTP 56 I/O 16MHZ COMTEM
SC87C51AB	4K/128 OTP .5-12MHZ EXT TEMP
SC87C51AC	4K/128 OTP 12MHZ EXT TEMP
SC87C51AG	4K/128 OTP 16MHZ EXT TEMP
SC87C51AP	4K/128 OTP 24MHZ EXT TEMP
SC87C51AY	4K/128 OTP 33MHZ EXT TEMP
SC87C51CB	4K/128 OTP .5-12MHZ COMM TEMP
SC87C51CC	4K/128 OTP 12MHZ COMM TEMP
SC87C51CG	4K/128 OTP 16MHZ COM TEMP
SC87C51CP	4K/128 OTP 24MHZ COM TEMP
SC87C51CY	4K/128 OTP 33MHZ COM TEMP
SE4558	DUAL GENERAL PURPOSE OP AMP
SE5018	8-BIT D/A CONVERTER VOLT OUT
SE5205	HI FREQ AMP DC TO 550MHZ
SE521	HI SPEED DUAL DIFFERENTIAL COM
SE5212A	FIBER OPTIC TRANSIMEDANCE AMP
SE522	HI SPEED DUAL DIFFERENTIAL COM
SE527	HIGH SPEED COMPARATOR
SE529	HIGH SPEED COMPARATOR
SE531	HIGH SLEW RATE OP AMPLIFIER
SE532	DUAL OP AMPLIFIER
SE5410	10-BIT D/A CONVERTER
SE5512	DUAL HIGH PERFORMANCE OP AMP
SE5514	QUAD HIGH PERFORMANCE OP AMP
SE5521	LVDT SIGNAL CONDITIONER
SE5532	DUAL LOW NOISE OP AMPLIFIER
SE5532A	DUAL LOW NOISE OP AMPLIFIER
SE5534	LOW NOISE OP AMPLIFIER
SE5534A	LOW NOISE OP AMPLIFIER
SE5537	SAMPLE AND HOLD AMPLIFIER
SE5539	FAST WIDE BANDWIDTH OP AMPLIFIER
SE555	TIMER
SE555C	TIMER
SE556	DUAL TIMER
SE556C	DUAL TIMER
SE5560	S.M.P.S. CONTROL CIRCUIT
SE5561	S.M.P.S. CONTROL CIRCUIT
SE5562	S.M.P.S.
SE558	QUAD TIMER
SE564	HIGH FREQUENCY PLL
SE566	PHASE LOCKED LOOP
SE567	TONE DECODER PLL
SE592	VIDEO AMPLIFIER
SE594	VACUUM FLORESNT DISPLAY DRIVER
SG3524	S.M.P.S. CONTROL CIRCUIT
SM68070	68070 DEVELOPMENT BOARD
SM90C100	90C100 MCO FAMILY MICRO CORE B
SNAPOR16	DESIGN DEVELOPMENT SOFTWARE
SNAP16	DESIGN DEVELOPMENT SOFTWARE
S80C552-1	RMLS/256 10-BIT A/D 16MHZ QFP
S80C552-2	RMLS/256 10BIT A/D 16MHZ EXT
S80C552-6	RMLS256 10BIT A/D 16MHZ 40 - 125°C
S80C562-2	RMLS/256 8BIT A/D 12MHZ EXT TEMP
S80C562-4	RMLS/256 8BIT A/D 16MHZ 0 -70°C
S80C562-6	RMLS/256 8BIT 12MHZ -40 TO 125°C
S80C652-1	RMLS/256 I^2C 12MHZ COM TEM DIP
S80C652-2	ROMLESS/256 I^2C 12MHZ EXT TEMP
S80C652-6	RMLS/256 I^2C 12MHZ 40 - 125°C
S80C851-1	RMLS/128 256 EEPROM 12MHZ 0 - 70°C
S80C851-2	RMLS/128 256 EEPROM 12MHZ EXT
S83C552-1	8K/256 ROM 10BIT A/D 16MHZ COM
S83C552-2	8K/256 ROM 10BIT A/D 16MHZ EXT
S83C552-6	8K/256 ROM 10BIT 12MHZ 40 - 125°C

Alphanumeric Product Listing

S83C562-2	8K/256 ROM 8BIT A/D 12MHZ EXT
S83C562-4	8K/256 ROM 8BIT A/D 16MHZ COM
S83C562-6	8K/256 ROM 8BIT 12MHZ 40 - 125°C
S83C652-1	8K/256 ROM I²C 12MHZ COM TEMP
S83C652-2	8K/256 ROM I²C 12MHZ EXT TEMP
S83C652-6	8K/256 ROM I²C 12MHZ 40 - 125°C
S83C654-1	16K/256 ROM I²C 16MHZ COM TEMP
S83C654-2	16K/256 ROM I²C 16MHZ EXT TEMP
S83C654-6	16K/256 ROM I²C 16MHZ 40 - 125°C
S83C751-1	2K/64 ROM I²C 12MHZ COM TEMP
S83C751-2	2K/64 ROM I²C 12MHZ EXT TEMP
S83C751-3	2K/64 ROM I²C .5-12MHZ COM TEM
S83C751-4	2K/64 ROM I2²C 16MHZ COM TEMP
S83C751-5	2K/64 ROM I²C 16MHZ EXT TEMP
S83C752-1	2K/64 ROM A/D I²C 12MHZ COMTEM
S83C752-2	2K/64 ROM A/D I²C 12MHZ EXT
S83C752-4	2K/64 ROM A/D I²2 16MHZ 0 - 70°C
S83C752-5	2K/64 ROM A/D I2C 16MHZ EXT
S87C00K	DEMO BOARD FOR I²C WITH 87C751
S87C552-1	8K/256 EPROM 10-BIT A/D 12MHZ
S87C552-2	8K/256 EPROM 12MHZ 10-BIT A/D
S87C552-4	8K/256 EPROM 16MHZ 10-BIT 0 - 70°C
S87C552-5	8K/256 EPROM 10-BIT A/D 16MHZ EX
S87C652-4	8K/256 OTP I²C 16MHZ COM TEMP
S87C652-5	8K/256 OTP 16MHZ I²C EXT TEMP
S87C652-7	8K/256 OTP 20MHZ COM TEMP I²C
S87C652-8	8K/256 OTP 20MHZ EXT TEM I²C
S87C654-4	16K/256 OTP I²C 16MHZ COM TEMP
S87C654-5	16K/256 OTP I²C 16MHZ EXT TEMP
S87C654-7	16K/256 OTP I²C 20MHZ COM TEMP
S87C654-8	16K/256 OTP I²C 20MHZ EXT TEM
S87C751-1	2K/64 OTP I²C 12MHZ COM TEMP
S87C751-2	2K/64 OTP I²C 12MHZ EXT TEMP
S87C751-3	2K/64 OTP I²C .5-12MHZ COM TEM
S87C751-4	2K/64 OTP I²C 16MHZ COM TEMP
S87C751-5	2K/64 OTP I²C 16MHZ EXT TEMP
S87C752-1	2K/64 OTP A/D I²C 12MHZ 0 - 70°C
S87C752-2	2K/64 OTP A/D I²C 12MHZ EXT
S87C752-4	2K/64 OTP A/D I²C 16MHZ 0 - 70°C
S87C752-5	2K/64 OTP A/D I²C 16MHZ EXT
S87C752-6	2K/64 OTP A/D 12MHZ -55 - 125°C
TBA120U	SOUND IF AMPLIFIER/DEMODULATOR
TDA1010A	6W AUDIO POWER AMPLIFIER
TDA1013B	4 W AUDIO AMP W/VOL CONTR
TDA1015	1W TO 4W AUDIO POWER AMP
TDA1020	12W AUDIO PWR AMP W/PREAMP
TDA1023	TIME PROPORTIONAL TRIAC CONTR
TDA1074A	DUAL TANDEM ELEC POTENTIOMETER
TDA1510A	24W BTL AUDIO AMPLIFIER
TDA1514A	50W HI-FI AUDIO AMP
TDA1515A	24W BTL POWER AMPLIFIER
TDA1516Q	POWER AMILIFIER 2 × 11 WATTS
TDA1518Q	22 W POWER AMPLIFIER
TDA1519A	2 × 6 STEREO CAR RADIO 40DBGAIN
TDA1520B	20 WATT HI FI AUDIO AMPLIFIER
TDA1521	AUDIO POWER AMP (2 × 12W)
TDA1521A	AUDIO POWER AMP (2 × 6W)
TDA1524A	STEREO DC SOUND CONTROL
TDA1534	14-BIT A/D CONVERTER
TDA1535B	HI SPEED SAMPLE AND HOLD AMP
TDA1541A	DUAL 16-BIT DAC
TDA1541AS1	HI PERFORMANCE DUAL 16-BIT DAC
TDA1542	ACTIVE ELEMENT FOR POST FILTER
TDA1543	ECONOMY DUAL 16-BIT DAC (I²S)
TDA1543A	ECONOMY DUAL 16-BIT DAC
TDA1543AT	ECONOMY DUAL 16-BIT DAC
TDA1547	BITSTREAM D/A CONVERTER DAC7
TDA1574	VHF MIXER OSCILLATOR
TDA1576	FM IF AMPLIFIER CIRCUIT
TDA1578A	PLL STEREO DECODER
TDA1596	FM/IF AMP & DETECTOR SYSTEM
TDA2501	PAL/NTSC CHROMA MODULATOR
TDA2577A	SYNC W/VERTICAL OSC & DRIVER
TDA2578A	SYNC W/VERTICAL OSC & DRIVER
TDA2582	SMPS DRIVER
TDA2593	HORIZONTAL COMBINATION
TDA2595	HORIZONTAL COMBINATION
TDA2611A	2-6W AUDIO AMPLIFIER
TDA2613	6 WATT POWER AMP
TDA2653A	VERTICAL DEFLECTION
TDA2658	VERTICAL DEFLECTION CIRCUIT
TDA3047	INFARED RECEIVER
TDA3047T	I/R PRE-AMP
TDA3048	INFARED RECEIVER
TDA3048T	IR PREAMPS
TDA3505	VIDEO CONTROL COMBINATION
TDA3507	VIDEO CONTROLLER
TDA3564	NTSC COLOR DECODER
TDA3566	ORDER TDA3566AN
TDA3566A	PAL/NTSC DECODER
TDA3567	NTSC COLOR DECODER
TDA3653B	VERTICLE DEFLECTION
TDA3653C	VERTICLE DEFLECTION
TDA4501	SMALL SIGNAL COMB FOR COLOR TV
TDA4502A	SMALL SIGNAL COMB FOR COLOR TV
TDA4565	COLOR TRANSIENT IMPROVEMENT IC
TDA4566	COLOR TRANSIENT IMPROVEMENT
TDA4570	NTSC DECODER
TDA4580	VIDEO CONTROLLER
TDA4650	PAL/NTSC/SECAM DECODER
TDA4660	SWITCHED CAPACITOR DELAY LINE
TDA4670	VIDEO SIGNAL IMPROVEMENT
TDA4680	RGB PROCESSOR
TDA4680WP	RGB PROCESSOR
TDA4820T	VIDEO SYNC STRIPPER
TDA5030A	VHF MIXER OSCILLATOR
TDA5030AT	VHF MIXER OSCILLATOR
TDA5140T	BRUSHLESS DC MOTOR DRIVER
TDA5142T	BRUSHLESS DC MOTOR DRIVER
TDA5143T	BRUSHLESS DC MOTOR DRIVER
TDA5144AT	BRUSHLESS DC MOTOR DRIVER
TDA5330T	3 BAND TUNER VHF-UHF-HYPER
TDA6800	VIDEO MODULATOR
TDA6800T	VIDEO MODULATOR
TDA7000	FM RADIO CIRCUIT
TDA7010T	FM RADIO CIRCUIT
TDA7021T	FM CIRCUIT FOR MTS
TDA7040T	PLL STEREO DECODER LOW VOLTAGE
TDA7050	LO VOLTAGE MONO STEREO AMP
TDA7050T	LO VOLTAGE MONO/STEREO AMP
TDA7052	1 WATT LOW VOLTAGE PWR AMP
TDA7053	DUAL 1W LOW VOLTAGE PUR AMP
TDA7056	3W AUDIO POWER AMP
TDA8340	TV IF AMP. AMD DEMODULATOR

Alphanumeric Product Listing

TDA8341	VIDEO 1F
TDA8380	SMPS CONTROLLER
TDA8421	TV AUDIO PROCESSOR
TDA8425	HI-FI STEREO AUDIO PROCESSOR
TDA8440	2-INPUT VIDEO & AUDIO SWITCH
TDA8442	ANALOG CONTROL & DAC
TDA8443A	RGB/YUV SWITCH
TDA8444	OCTUPLE 6-BIT D/A CONVERTER
TDA8444T	OCTUPLE 6-BIT D/A CONVERTER
TDA8702	8-BIT D/A CONVERTER
TDA8702T	8-BIT D/A CONVERTER
TDA8703	8-BIT A/D CONVERTER
TDA8703T	8-BIT A/D CONVERTER
TDA8708	8-BIT VIDEO ADC
TDA8708T	8-BIT VIDEO ADC
TDA8709	8-BIT VIDEO A/D W/AGC
TDA8709T	8-BIT VIDEO A/D W/AGC
TDA8713	8-BIT FLASH A/D
TDA8713T	8-BIT FLASH A/D
TDA9045	VIDEO PROCESSOR & INP SELECTOR
TDA9080	VIDEO CONTROL COMBINATION IC
TDD1742T	FREQUENCY SYNTHESIZER
TDE8715D	8-BIT FLASH A/D
TEA1060	TELEPHONE TRANSMISSION CIRCUIT
TEA1062	TELEPHONE TRANSMISSION CIRCUIT
TEA1064	ORDER TEA1064AN
TEA1064A	TEL TRAN IC W/DYN LIMIT
TEA1064AT	TEL TRAN IC W/DYN LIMIT
TEA1064T	ORDER TEA1064ATD
TEA1066T	TRANSMISSION 1C
TEA1067	LV TELEPHONE TRANS CIRCUIT
TEA1067T	LV TELEPHONE TRANS CIRCUIT
TEA1068	TELEPHONE TRANSMISSION IC
TEA1068T	TELEPHONE TRANSMISSION IC
TEA1081	SUPPLY IC FOR TEL.PERIPHERALS
TEA1088T	BATTERY CHARGER
TEA2000	RGB TO NTSC/PAL ENCODER
TEA5500	CODED LOCKING IC FOR SECURITY
TEA5501	CODED LOCKING IC FOR SECURITY
TEA5570	AM/FM RADIO RECEIVER CIRCUIT
TEA5581	STEREO DECODER & PREAMP
TEA5591	AM RADIO RECEIVER
TEA5594	AM/FM RECEIVER
TEA6300	SOUND CONTROLLER AND FADER
TEA6300T	SOUND CONTROLLER AND FADER
TSA5511	1.3GHZ FREQUENCY SYNTHESIZER
TSA6057	AM-FM FREQUENCY SYNTHESIZER
UAA1300	VOLT REG CONTROLLER W/WATCHDOG
UAA2050T	UHF DIGITAL PAGING RECEIVER
UA723	PRECISION VOLTAGE REGULATOR
UA723C	PRECISION VOLTAGE REGULATOR
UA733	DIFFERENTIAL VIDEO AMPLIFIER
UA733C	DIFFERENTIAL VIDEO AMPLIFIER
UA741	GENERAL PURPOSE OP AMPLIFIER
UA741C	GENERAL PURPOSE OP AMPLIFIER
UA747	DUAL OP AMPLIFIER
UA747C	DUAL OP AMPLIFIER
UC3842	SMPS CONTROL IC
UMA1000T	DATA PROCESSOR/CELLULAR RADIO
UMA1014T	1 GHZ FREQUENCY SYNTH
10H20EV8-4	ECL PAL TYPE DEVICE 10K CDIL
100101	TRIPLE 5-INPUT GATE
100102	QUINT 2-INPUT GATE
100107	QUINT EX-OR/NOR
100112	QUAD HIGH FAN OUT DRIVER
100113	LINE DRIVER
100114	LINE RECEIVER
100117	TRIPLE AOI
100118	5-WIDE AOI
100122	9-BIT BUFFER
100123	HEX BUS DRIVER
100124	TTL TO ECL TRANSLATOR
100125	ECL TO TTL TRANSLATOR
100126	BACK PLANE DRIVER
100131	TRIPLE "D" FLIP FLOP
100136	MULTIPURPOSE COUNTING REGISTER
100141	8-BIT UNIVERSAL SHIFT REGISTER
100149	1K ECL PROM (256 × 4) 20NS
100149A	1K ECL PROM (256 × 4) 10NS
100150	HEX D LATCH
100151	HEX FLIP FLOP
100155	QUAD MULTIPLEXER/LATCH
100158	SHIFT MATRIX
100160	DUAL 9-BIT PARITY
100163	DUAL 8 INPUT MUX
100164	16 LINE MULTIPLEXER
100165	UNIVERSAL PRIORITY ENCODER
100166	9-BIT COMPARATOR
100170	UNIVERSAL DECODER
100171	TRIPLE 4-INPUT MUX
100175	ECL 10K-ECL 100K TRANSLATOR
100179	CARRY LOOK-AHEAD GENERATOR
100180	FAST 6-BIT ADDER
100181	4-BIT ALU BINARY/DECIMAL
10020EV8-4	ECL PAL TYPE DEVICE 100K CDIL
100231	TRIPLE D FLIP/FLOP (1.8NS)
100255	TTL-100K TRANSLATOR BIDIRECTIONAL
100790	9-BIT REG TRANSCEIVER 3-STATE
100982	6-BIT REG TRANSLATING TRANSCEIVER
100984	4-BIT REG TRANSLATING TRANSCEIVER
10100	QUAD 3-INPUT NOR GATE
10101	QUAD 2-INPUT OR/NOR (COMP OUT)
10102	QUAD 2-INPUT NOR GATE
10103	3 OR AND 1 OR/NOR 2-INPUT GATE
10104	QUAD 2-INPUT AND GATE
10105	TRIPLE 2-3-2 OR/NOR GATE
10107	TRIPLE EXCLUSIVE OR/NOR GATE
10109	DUAL 4-INPUT OR/NOR GATE
10113	QUAD EXCLUSIVE OR W/ENABLE
10114	TRIPLE DIFF OR/NOR LINE RCVR
10115	QUAD DIFFERENTIAL LINE RCVR
10116	TRIPLE DIFF OR/NOR LINE RCVR
10124	QUAD DIFF DRIVER/TTL TO ECL
10125	QUAD DIFF RECEIVER/ECL TO TTL
10129	QUAD TTL/IBM BUS RCVR/LATCH
10131	DUAL D-TYPE MS FLIP/FLOP
10133	QUAD D-TYPE LATCH W/GATED OUT
10134	DUAL MULT PLXR-LATCH W/SELECT
10135	DUAL J-K M-S FLIP FLOP
10136	UNIVERSAL HEX COUNTER
10137	UNIVERSAL DECIMAL COUNTER
10141	4-BIT UNIVERSAL SHIFT REGISTER
10149	1K ECL PROM (256 × 4) 20NS
10149A	1K ECL PROM (256 × 4) 10NS

Alphanumeric Product Listing

10158	QUAD 2-TO-1 MUX (NON-INVERTING
10160	12-BIT PARITY GENERATOR
10164	8 TO 1 LINE MUX (W/ENABLE)
10173	QUAD 2 TO 1 MUX-LATCH
10174	DUAL 4 TO 1 MUX W/ENABLE
10175	QUINT LATCH
10176	HEX D-TYPE M-S FLIP FLOP
10180	DUAL ADDER/SUBTRACTOR
10192	QUAD BUS DRIVER
10216	TRIPLE OR/NOR LINE RECEIVER
10231	DUAL D-TYPE M-S FLIP FLOP
27C010-15	1 MEG OTP CEPROM (128K × 8) 150NS
27C010-20	1 MEG OTP CEPROM (128K × 8) 200NS
27C010I15	1 MEG OTP - INDUSTRIAL TEMP
27C010I20	1 MEG OTP - INDUSTRIAL TEMP
27C210-15	1 MEG OTP CEPROM 64K × 16 150NS
27C210-20	1MEG CMOS EPROM (64K × 16) 200NS
27C256-12	256K O.T.P CPROM (32K × 8) 120NS
27C256-15	256K OTP CEPROM 32 × 8 150NS
27C256-20	256K OTP CEPROM 32 × 8 200NS
27C256I12	256K OTP-INDUSTRIAL TEMP
27C256I15	256K OTP - INDUSTRIAL TEMP
27C256I20	256K OTP - INDUSTRIAL TEMP
27C512-12	512K OTP CEPROM 64 × 8 120NS
27C512-15	512K OTP CEPROM (64K × 8) 150NS
27C512-17	512K OTP CEPROM 64 × 8 170NS
27C512-20	512K OTP CEPROM 64 × 8 200NS
27C512I12	512K OTP-INDUSTRIAL TEMP
27C512I15	512K CEPROM - INDUSTRIAL TEMP
27C512I20	512K OTP - INDUSTRIAL TEMP
27C64A-12	64K O.T.P. CEPROM (8K × 8) 120NS
27C64A-15	64K OTP CEPROM (8K × 8) 150NS
27C64A-17	64K OTP CEPROM 8 × 8 170NS
27C64A-20	64K O.T.P.CEPROM (8K × 8) 200NS
27C64A-25	64K O.T.P.CEPROM (8K × 8) 250NS
27C64AI15	64K OTP - INDUSTRIAL TEMP
27C64AI20	64K OTP - INDUSTRIAL TEMP
27HC641-45	64K O.T.P. EPROM (8K × 8) 45NS
27HC641-55	64K O.T.P. EPROM (8K × 8) 55NS
74ABT241	OCTAL BUFFER/LINE DRIVER 3-STATE
74ABT244	OCTAL BUFFER/LINE DRIVER 3-STATE
74ABT245	OCTAL TRANSVER W/DIRECT (3-STATE
74ABT273	OCTAL D-TYPE FLIP/FLOP
74ABT2952	OCTAL REGISTERED XCVR, 3-STATE
74ABT2953	OCTAL REGISTERED XCVR INV 3-STATE
74ABT373	D-TYPE TRANSPARENT LATCH 3-STATE
74ABT374	OCT D-TYP FLIP/FLOP POS EDGE TRIG 3-STATE
74ABT377	OCT D-TYPE FLIP/FLOP W/ENABLE
74ABT534	OCTAL D FLIP/FLOP 3-STATE INVERTER
74ABT541	OCTAL BUFFER/LINE DRIVER 3-STATE
74ABT543	OCTAL LATCHED XCVR 3-STATE
74ABT544	OCTAL LATCHD XCVR INV, 3-STATE
74ABT573	D-TYPE TRANSPARENT LATCH 3-STATE
74ABT574	OCTAL D FLIP/FLOP 3-STATE
74ABT623	OCT XCVR W/DUAL ENABLE INV 3-STATE
74ABT646	OCTAL REGISTERED XCVR 3-STATE
74ABT648	OCTAL REGISTERD XCVR, INV, 3-STATE
74ABT652	OCTAL REGISTERD XCVR 3-STATE
74ABT657	OCTAL XCVR W/PARITY GEN. CHK.
74ABT863	9-BIT TRANSCIEVER, 3-STATE
74ACT11000	QUAD 2-INPUT NAND GATE
74ACT11002	QUAD 2-INPUT NOR GATE
74ACT11004	HEX INVERTER
74ACT11008	QUAD 2-INPUT AND GATE
74ACT11010	TRIPLE 3-INPUT NAND GATE
74ACT11011	TRIPLE 3-INPUT AND GATE
74ACT11013	DUAL NAND SCHMITT TRIGGER
74ACT11014	HEX SCHMITT TIRGGER
74ACT11020	DUAL 4-INPUT NAND GATE
74ACT11021	DUAL 4-INPUT AND GATE
74ACT11027	TRIPLE 3-INPUT NOR GATE
74ACT11030	8-INPUT NAND GATE
74ACT11032	QUAD 2-INPUT NAND SCHMITT TRIGGER
74ACT11034	HEX NON-INVERTER
74ACT11074	DUAL D-TYPE FLIP/FLOP
74ACT11086	QUAD 2-INPUT EXCLUSIVE-OR GATE
74ACT11109	DUAL J-K FLIP/FLOP
74ACT11112	DUAL J-K NEG EDGE FLIP/FLOP
74ACT11132	QUAD SCHMITT-TRIGGER
74ACT11138	1-OF-8 DECODER MULTIPLEXER
74ACT11139	DUAL 2-TO-10-OF-4 DECODER/DEMUX
74ACT11151	8-INPUT MULTIPLEXER
74ACT11153	DUAL 4-INPUT MULTIPLEXER
74ACT11160	SYNC 4-BIT DECADE COUNTER
74ACT11161	4-BIT BINARY COUNTER
74ACT11162	SYNC 4-BIT DECADE COUNTER
74ACT11163	SYNCH 4-BIT BINARY COUNTER
74ACT11174	HEX D-TYPE FLIP/FLOP W/RESET POS EDG
74ACT11175	QUAD D-TYPE EDGE TRIGGER FLIP/FLOP
74ACT11181	4-BIT ARITHMATIC LOGIC UNIT
74ACT11190	DECADE UP/DOWN COUNTER
74ACT11191	BINARY UP/DOWN COUNTER
74ACT11194	4-BIT BIDIRECTIONAL S/R
74ACT11238	1-TO-8 DECODER DEMULTIPLEXER
74ACT11239	DUAL 2 TO 4 DECODER/DEMUX
74ACT11240	OCTAL BUFFER/LINE DRIVER, INV
74ACT11241	OCTAL BUFFER/LINE DRIVER, 3-STATE
74ACT11244	OCTAL BUFFER/LINE DRIVER, 3-STATE
74ACT11245	OCTAL TRANSCEIVER, 3-STATE
74ACT11251	8-INPUT MUX, 3-STATE
74ACT11253	DUAL 4-INPUT MULTIPLEXER 3-STATE
74ACT11257	QUAD 2-INPUT MULTIPLEXER
74ACT11258	QUAD 2 TO 1 MUX 3-STATE
74ACT11269	8-BIT BINARY UP/DOWN COUNTER
74ACT11273	OCTAL D-TYPE FLIP/FLOP WITH RESET
74ACT11280	9-BIT ODD/EVEN PAR GEN/CHECKER
74ACT11286	9-BIT ODD/EVEN PAR GEN/CHECKER
74ACT11353	DUAL 4-INPUT MULTIPLXR 3-5 INV
74ACT11373	OCTAL D-TYPE TRANSPARENT LATCH
74ACT11374	OCTAL D-TYPE FLIP/FLOP
74ACT11377	OCTAL D-TYPE FLIP FLOP
74ACT11378	HEX D-TYPE FLIP/FLOP W/ENABLE POS EDGE
74ACT11379	QUAD D FLIP/FLOP WITH ENABLE
74ACT11470	OCTAL TRANCEIVER-REGISTER
74ACT11471	OCTAL TRANSCEIVER-REGISTER
74ACT11520	8-BIT ID COMPR W/INPUT PULL-UP
74ACT11521	8-BIT IDENTITY COMPARITOR
74ACT11533	OCTAL D-TYPE TRANSPARENT LATCH
74ACT11534	OCTAL D FLIP/FLOP INV, 3-STATE
74ACT11543	OCTAL LATCHED TRANSCEIVER
74ACT11544	OCTAL LATCHED TRANSCEIVER
74ACT11620	OCTAL BUS TRANSCEIVER 3-STATE
74ACT11623	OCTAL BUS TRANSCEIVER 3-STATE
74ACT11640	OCTAL TRANSCEIVER, INV

Alphanumeric Product Listing

74ACT11643	OCTAL BUS TRANSCEIVER 3-STATE
74ACT11646	XCVR/REG W/DIRECTION-PIN 3-STATE
74ACT11648	XCVR/REG W/DIRECTION PIN INV
74ACT11651	OCTAL TRANSCEIVER-REGISTER
74ACT11652	OCTAL TRANSCEIVER
74ACT11656	OCTAL BUFFER
74ACT11657	OCTAL TRANSCEIVER
74ACT11810	EXCLUSIVE NOR GATE
74ACT11827	10-WIDE BUFFER/LINE DRIVER 3-STATE
74ACT11828	10-WIDE BUFFER/LINE DRIVER 3-STATE
74ACT11873	DUAL 4-BIT TRANS LATCH W/CLEAR
74ACT11874	DUAL 4-BIT D EDGE TRIG FLIP/FLOP W/C
74ACT11898	10-BIT SER IN/PARA OUT SR
74ACT11979	8-BIT MUX I/O READ-BACK REG
74AC11000	QUAD 2-INPUT NAND GATE
74AC11002	QUAD 2-INPUT NOR GATE
74AC11004	HEX INVERTER
74AC11008	QUAD 2-INPUT AND GATE
74AC11010	TRIPLE 3-INPUT NAND GATE
74AC11011	TRIPLE 3-INPUT AND GATE
74AC11013	DUAL NAND SCHMITT TRIGGER
74AC11014	HEX SCHMITT TRIGGER
74AC11020	DUAL 4-INPUT NAND GATE
74AC11021	DUAL 4-INPUT AND GATE
74AC11027	TRIPLE 3-INPUT NOR GATE
74AC11030	8-INPUT NAND GATE
74AC11032	QUAD 2-INPUT NAND SCHMITT TRIGGER
74AC11034	HEX NON-INVERTER
74AC11074	DUAL D-TYPE FLIP/FLOP
74AC11086	QUAD 2-INPUT EXCLUSIVE OR GATE
74AC11109	DUAL J-K FLIP/FLOP
74AC11112	DUAL J-K NEG EDGE FLIP/FLOP
74AC11132	QUAD SCHMITT TRIGGER
74AC11138	1-OF-8 LINE DECODER/DEMUX
74AC11139	DUAL 2-TO-10-OF-4 DECODER/DEMU
74AC11151	SINGLE 8-TO-1 MUX
74AC11153	DUAL 4-INPUT MUX
74AC11158	QUAD 2-INPUT DATA SELECTOR (NI)
74AC11160	SYNC BCD DECADE CNTR/ASYNC RESET
74AC11161	4-BIT BINARY COUNTER
74AC11162	SYNC BCD DECADE CNTR/SYNC RESET
74AC11163	SYNCH 4-BIT BINARY COUNTER
74AC11174	HEX D-TYPE FLIP FLOP
74AC11175	QUAD BISTABLE LATCH
74AC11181	4-BIT ARITHMATIC LOGIC UNIT
74AC11190	DECADE UP/DOWN COUNTER
74AC11191	BINARY UP/DOWN COUNTER
74AC11194	4-BIT BIDIRECTIONAL S.R.
74AC11238	3-TO-8 DECODER/DEMULTIPLEXER
74AC11239	DUAL 2-TO-4 DECODER/DEMUX
74AC11240	OCTAL BUFFER/LINE DRIVER, INV
74AC11241	OCTAL BUFFER/LINE DRIVER, 3-STATE
74AC11244	OCTAL BUFFER/LINE DRIVER, 3-STATE
74AC11245	OCTAL TRANSCEIVER, 3-STATE
74AC11251	8-TO-1 MUX 3-STATE
74AC11253	DUAL 4-INPUT MULTIPLEXER 3-STATE
74AC11257	QUAD 2 TO 1 MUX 3-STATE
74AC11258	QUAD 2 TO 1 MUX 3-STATE
74AC11269	8-BIT UP/DOWN COUNTER
74AC11273	OCTAL D-TYPE FLIP/FLOP WITH RESET
74AC11280	9-BIT ODD/EVEN PAR GEN CHECKER
74AC11286	9-BIT ODD/EVEN PAR GEN CHECKER
74AC11353	DUAL 4-INPUT MULTIPLEXER 3-STATE INV
74AC11373	OCTAL D-TYPE TRANSPARENT LATCH
74AC11374	OCTAL D-TYPE FLIP/FLOP
74AC11378	HEX D-TYPE FLIP FLOP W/ENABLE
74AC11379	QUAD D FLIP/FLOP WITH ENABLE
74AC11470	OCTAL TRANSCEIVER-REGISTER
74AC11471	OCTAL TRANSCEIVER-REGISTER
74AC11520	8-BIT ID COMPR W/INPUT PULL-UP
74AC11521	8-BIT IDENTITY COMPARITOR
74AC11533	OCTAL D-TYPE TRANSPARENT LATCH
74AC11534	OCTAL D FLIP/FLOP INV, 3-STATE
74AC11620	OCTAL BUS TRANSCEIVER 3-STATE
74AC11623	OCTAL BUS TRANSCEIVER 3-STATE
74AC11640	OCTAL TRANSCEIVER
74AC11643	OCTAL BUS TRANSCEIVER 3-STATE
74AC11646	XCVR/REG W-DIRECTION PIN 3-STATE
74AC11648	XCVR/REG W/DIRECTION PIN INV
74AC11651	OCTAL TRANSCEIVER-REG INV 3-STATE
74AC11652	OCT XCVR/REG W/DUAL ENABLE,3-STATE
74AC11656	OCTAL BUFFER W/PARITY GEN/CHK
74AC11657	OCTAL TRANS W/PARITY GEN/CHECK
74AC11810	EXCLUSIVE NOR GATE
74AC11827	10-WIDE BUFFER/LINE DRIVER
74AC11828	10-WIDE BUFFER/LINE DRIVER 3-STATE
74AC11873	DUAL 4-BIT TRANS LATCH W/CLEAR
74AC11874	DUAL 4-BIT D EDGE TRIG FLIP/FLOP W/C
74AC11898	10-BIT SER IN/PARA OUT SR
74HCT00	QUAD 2-INPUT NAND GATE
74HCT02	QUAD 2-INPUT NOR GATE
74HCT03	QUAD 2-INPUT AND GATE
74HCT04	HEX INVERTER
74HCT08	QUAD 2-INPUT AND GATE
74HCT10	TRIPLE 3-INPUT NAND GATE
74HCT107	DUAL J-K NEG EDGE FLIP/FLOP
74HCT109	DUAL J-K POS EDGE FLIP/FLOP
74HCT11	TRIPLE 3-INPUT AND GATE
74HCT112	DUAL J-K NEG EDGE FLIP/FLOP
74HCT123	DUAL RETRIG MONOSTABLE MULTIPLEXER
74HCT125	QUAD 3-STATE BUS BUFFER
74HCT126	QUAD 3-STATE BUS BUFFER
74HCT132	QUAD 2-INPUT NAND SCHMITT TRIGGER
74HCT137	3-TO-8 LINE DECODER/DEMUX
74HCT138	1-OF-8 DECODER MULTIPLEXER
74HCT139	DUAL 1-OF-4 DECOD/DEMUX
74HCT14	HEX SCHMITT TRIGGER
74HCT147	10-TO-4 LINE PRIORITY ENCODER
74HCT151	8-INPUT MULTIPLEXER
74HCT153	DUAL 4-INPUT MULTIPLEXER
74HCT154	1 OF 16 DECOD/DEMUX
74HCT157	QUAD 2-INPUT MULTIPLEXER
74HCT158	QUAD 2-INPUT MUX,INVERTING
74HCT160	SYNC. 4-BIT DECADE COUNTER
74HCT161	4-BIT BINARY COUNTER
74HCT162	SYNC. 4-BIT DECADE COUNTER
74HCT163	SYNC. 4-BIT BINARY COUNTER
74HCT164	8-BIT SIPO S/R
74HCT165	PARALLEL-LOAD 8-BIT S/R
74HCT166	8-BIT PISO SHIFT REGISTER
74HCT173	QUAD 3-STATE D-TYPE FLIP/FLOP
74HCT174	HEX D-TYPE FLIP/FLOP WITH CLEAR
74HCT175	QUAD D-TYPE EDGE TRIGGER FLIP/FLOP
74HCT181	4-BIT ARITHMETIC LOGIC UNIT

Alphanumeric Product Listing

74HCT182	CARRY LOOK-AHEAD GENERATOR
74HCT190	BCD SYNC DECADE UP/DOWN COUNTER
74HCT191	SYNC BINARY UP/DOWN COUNTER
74HCT192	SYNC DECADE UP/DOWN COUNTER
74HCT193	4-BIT BINARY UP/DOWN COUNTER
74HCT194	4-BIT BIDIRECTIONAL S/R
74HCT195	4-BIT PARALLEL S/R
74HCT20	DUAL 4-INPUT NAND GATE
74HCT21	DUAL 4-INPUT AND GATE
74HCT221	DUAL MONOSTABE MULTIVIBRATOR
74HCT237	3-TO-8 L. DECOD/DEMULT W/A LATCH
74HCT238	1-TO-8 DECODER DEMULTIPLEXER
74HCT240	OCTAL 3-STATE BUFFER, INV
74HCT241	OCTAL 3-STATE BUFFER
74HCT242	QUAD BUS TRANSCEIVER
74HCT243	QUAD BUS TRANSCEIVER
74HCT244	OCTAL 3-STATE DRIVER
74HCT245	OCTAL TRANSCEIVER
74HCT251	8-INPUT MUX, 3-STATE
74HCT253	DUAL 4-TO-1 DATA SELECTOR/MUX
74HCT257	QUAD 2-INPUT MULTIPLEXER
74HCT258	QUAD 2 TO 1 MUX 3-STATE
74HCT259	8-BIT ADDRESSABLE LATCH
74HCT27	TRIPLE 3-INPUT NOR GATE
74HCT273	QUAD D-TYPE FLIP/FLOP
74HCT280	9-BIT ODD/EVEN PAR GEN/CHECKER
74HCT283	4-BIT ADDER
74HCT297	DIG PHASE-LOCKED LOOP FILTER
74HCT299	8-BIT UNIVERSAL SHIFT REGISTER 3-STATE
74HCT30	8-INPUT NAND GATE
74HCT32	QUAD 2-INPUT OR GATE
74HCT354	8-BIT MULTIPLEXER/REG, 3-STATE
74HCT356	8-BIT MULTIPLEXER/REG, 3-STATE
74HCT365	HEX BUFFER W/COMMON ENABLE 3-STATE
74HCT366	HEX INVERT W/COMMON ENABLE 3-STATE
74HCT367	HEX BUFFER, 4-BIT & 2-BIT 3-STATE
74HCT368	HEX INVERT, 4-BIT & 2-BIT 3-STATE
74HCT373	OCTAL 3-STATE LATCH
74HCT374	OCTAL D FLIP/FLOP 3-STATE
74HCT377	OCTAL D FLIP/FLOP WITH ENABLE
74HCT390	DUAL DECADE RIPPLE COUNTER
74HCT393	DUAL BINARY RIPPLE COUNTER
74HCT4002	DUAL 4-INPUT NOR GATE
74HCT40102	8-BIT SYNC BCD DOWN COUNTER
74HCT40103	8-BIT BINARY DOWN COUNTER
74HCT40104	4-BIT BIDRECT UNIV SHFT RGSTR
74HCT40105	4-BIT × 16-WORD FIFO REGISTER
74HCT4015	DUAL 4-BIT SHIFT REGISTER
74HCT4016	QUAD BILATERAL SWITCH
74HCT4017	JOHNSON COUNTER W/10-OUTPUTS
74HCT4020	14-STAGE BINARY COUNTER
74HCT4024	7-STAGE BINARY RIPPLE COUNTER
74HCT4040	12-STAGE BINARY COUNTER
74HCT4046A	PHASE-LOCKED LOOP W/VCO
74HCT4051	8-CHANNEL MUX/DEMUX
74HCT4052	DUAL 4-CHANNEL ANALOG MUX/DMUX
74HCT4053	TRIPLE 2-CHANNEL MUX/DEMUX
74HCT4059	PROGRMBL DIVIDE-BY-N COUNTER
74HCT4060	14-STAGE RC BINARY COUNTER
74HCT4066	QUAD BILATERAL SWITCH
74HCT4067	16-CHANNEL ANALOG MUX/DEMUX
74HCT4075	TRIPLE 3-INPUT OR GATE
74HCT4094	8-STAGE SHIFT-&-STORE BUS REG
74HCT42	BCD-TO-DECIMAL DECODER
74HCT423	DUAL RETRIG MONOSTABLE MULTI
74HCT4316	QUAD BILATERAL SWITCH
74HCT4351	8-CHAN ANALOG MUX/DMUX LATCHED
74HCT4352	DUAL 4-CHAN MULTI/DEMUL W/LATCH
74HCT4353	TRIPLE 2-CHANNEL MUX/DEMUX
74HCT4510	BCD UP/DOWN COUNTER
74HCT4511	BCD TO 7 SEG LATCH/DECODR/DEVR
74HCT4514	4-16 DECODER/MUX W/LATCHES
74HCT4515	4-16 DECODER/MUX W/LATCHES
74HCT4516	BINARY UP/DOWN COUNTER
74HCT4518	DUAL BCD COUNTER
74HCT4520	DUAL BINARY COUNTER
74HCT4538	DUAL MONOSTABLE MULTIVIBRATOR
74HCT4543	BCD TO 7 SEG LATCH/DECODR/DEVR
74HCT533	OCTAL 3-STATE LATCH INVERTING
74HCT534	OCTAL D FLIP/FLOP INV, 3-STATE
74HCT540	OCTAL INV BUFFER, 3-STATE
74HCT541	OCTAL BUFFER, 3-STATE
74HCT5555	PROG DELAY TIMER W/SCHMITT TRIGGER
74HCT563	OCTAL 3-STATE TRANS LATCH INV
74HCT564	OCTAL D-TYPE FLIP/FLOP, 3-STATE
74HCT573	OCTAL 3-STATE TRANS LATCH
74HCT574	OCTAL D-TYPE FLIP/FLOP POS EDGE 3-STATE
74HCT583	BCD ADDER
74HCT597	8-BIT SHIFT REG W/INPUT LATCH
74HCT640	OCT 3-STATE TRANSCEIVER, INV
74HCT643	OCT TRUE/INV TRANS 3-STATE
74HCT646	OCTAL TRAN/REGISTER 3-STATE
74HCT648	OCT INVERT TRAN/REGISTER 3-STATE
74HCT670	4 × 4 REGISTER FILE, 3-STATE
74HCT688	8-BIT MAGNITUDE COMPARATOR
74HCT7030	64 WORD × 9-BIT FIFO
74HCT7046A	PHASED-LOCKED LOOP W/LOCK DTCT
74HCT7080	16-BIT PARITY GENERATR CHECKER
74HCT7174	HEX D-TYPE FLIP/FLOP W/CLEAR
74HCT7273	OCTAL D FLIP/FLOP
74HCT73	DUAL J-K MASTER SLAVE FLIP/FLOP
74HCT74	DUAL D-TYPE EDGE TRIGGER FLIP/FLOP
74HCT75	4-BIT BISTABLE LATCH
74HCT7540	OCT SCHM TRIG BUF/LINE DR INV
74HCT7541	OCT SCHM TRIG BUF/LINE N/INV
74HCT7597	8-BIT SHIFT REGISTER W/LATCHES
74HCT85	4-BIT MAGNITUDE COMPARATOR
74HCT86	QUAD 2-INPUT EXCLUSIVE-OR GATE
74HCT9014	NINE WIDE BUFFER W/SCHMITT TRIGGER
74HCT9015	NINE WIDE BUFFER W/SCHMITT TRIGGER
74HCT9114	NINE WIDE BUFFER W/SCHMITT TRIGGER
74HCT9115	NINE WIDE BUFFER W/SCHMITT TRIGGER
74HCT93	4-BIT BINARY COUNTER
74HCU04	HEX INVERTER
74HC00	QUAD 2-INPUT NAND GATE
74HC02	QUAD 2-INPUT NOR GATE
74HC03	QUAD 2-INPUT AND GATE
74HC04	HEX INVERTER
74HC08	QUAD 2-INPUT AND GATE
74HC10	TRIPLE 3-INPUT NAND GATE
74HC107	DUAL 4-K NEG EDGE FLIP/FLOP
74HC109	DUAL J-K POS EDGE FLIP/FLOP
74HC11	TRIPLE 3-INPUT AND GATE
74HC112	DUAL J-K NEG EDGE FLIP/FLOP

Alphanumeric Product Listing

74HC123	DUAL RETRIG MONO MULTIVIBRATOR
74HC125	QUAD 3-STATE BUS BUFFER
74HC126	QUAD 3-STATE BUS BUFFER
74HC132	QUAD 2-INPUT NAND SCHMITT TRIGGER
74HC137	3-TO-8 LINE DECODER/DEMUX
74HC138	1-OF-8 DECODER MULTIPLEXER
74HC139	DUAL 1-OF-4 DECOD/DEMUX
74HC14	HEX SCHMITT TRIGGER
74HC147	10-TO-4 LINE PRIORITY ENCODER
74HC151	8-INPUT MULTIPLEXER
74HC153	DUAL 4-INPUT MULTIPLEXER
74HC154	1-OF-16 DECOD/DEMUX
74HC157	QUAD 2-INPUT MULTIPLEXER
74HC158	QUAD 2-INPUT MUX INVERTING
74HC160	SYNC. 4-BIT DECADE COUNTER
74HC161	4-BIT BINARY COUNTER
74HC162	SYNC. 4-BIT DECADE COUNTER
74HC163	SYNC. 4-BIT BINARY COUNTER
74HC164	8-BIT SIPO S/R
74HC165	PARALLEL LOAD 8-BIT SHIFT REGISTER
74HC166	8-BIT PISO SHIFT REGISTER
74HC173	QUAD 3-STATE D-TYPE FLIP/FLOP
74HC174	HEX D-TYPE FLIP/FLOP WITH CLEAR
74HC175	QUAD D-TYPE EDGE TRIGGERED FLIP/FLOP
74HC181	4-BIT ARITHMETIC LOGIC UNIT
74HC182	CARRY LOOK-AHEAD GENERATOR
74HC190	BCD SYNC DECADE UP/DOWN COUNTER
74HC191	SYNC BINARY UP/DOWN COUNTER
74HC192	SYNC DECADE UP/DOWN COUNTER
74HC193	4-BIT BINARY UP/DOWN COUNTER
74HC194	4-BIT BIDIRECTIONAL SHIFT REGISTERR
74HC195	4-BIT UNIVERSAL SHIFT REGISTER
74HC20	DUAL 4-INPUT NAND GATE
74HC21	DUAL 4-INPUT AND GATE
74HC221	DUAL MONOSTABLE MULTIVIBRATOR
74HC237	3-TO-8 LNE DEC/DEMULTI W/ADLAT
74HC238	1-TO-8 DECODER DEMULTIPLEXER
74HC240	OCTAL 3-STATE BUFFER INV
74HC241	OCTAL 3-STATE BUFFER
74HC242	QUAD BUS TRANSCEIVER
74HC243	QUAD BUS TRANSCEIVER
74HC244	OCTAL 3-STATE DRIVER
74HC245	OCTAL TRANSCEIVER
74HC251	8-INPUT MUX 3-STATE
74HC253	DUAL 4 TO 1 DATA SELECTOR/MUX
74HC257	QUAD 2-INPUT MULTIPLEXER
74HC258	QUAD 2 TO 1 MUX 3-STATE
74HC259	8-BIT ADDRESSABLE LATCH
74HC27	TRIPLE 3-INPUT NOR GATE
74HC273	QUAD D-TYPE FLIP/FLOP
74HC280	9-BIT ODD/EVEN PAR GEN/CHECKER
74HC283	4-BIT ADDER
74HC297	DIG PHASE LOCKED LOOP FILTER
74HC299	8-BIT UNIVERSAL SHIFT REGISTER 3-STATE
74HC30	8-INPUT NAND GATE
74HC32	QUAD 2-INPUT OR GATE
74HC354	8-BIT MULTIPLEXER/REGISTER, 3-STATE
74HC356	8-BIT MULTIPLEXER/REGISTER, 3-STATE
74HC365	HEX BUFFER W/COMMON ENABLE 3-STATE
74HC366	HEX INVERT W/COMMON ENABLE 3-STATE
74HC367	HEX BUFFER, 4-BIT &2-BIT, 3-STATE
74HC368	HEX INVERT, 4-BIT &2-BIT, 3-STATE
74HC373	OCTAL 3-STATE LATCH
74HC374	OCTAL D FLIP/FLOP 3-STATE
74HC377	OCTAL D FLIP/FLOP W/ENABLE
74HC390	DUAL DECADE RIPPLE COUNTER
74HC393	DUAL BINARY RIPPLE COUNTER
74HC4002	DUAL 4-INPUT NOR GATE
74HC40102	8-BIT SYNC BCD DOWN COUNTER
74HC40103	8-BIT BINARY DOWN COUNTER
74HC40104	4-BIT BIDIRECT UNIV RGSTR
74HC40105	4-BIT × 16-WORD FIFO REGISTER
74HC4015	DUAL 4-BIT SHIFT REGISTER
74HC4016	QUAD BILATERAL SWITCH
74HC4017	JOHNSON COUNTER W/10 OUTPUTS
74HC4020	14-STAGE BINARY COUNTER
74HC4024	7-STAGE BINARY RIPPLE COUNTER
74HC4040	12-STAGE BINARY COUNTER
74HC4046A	PHASE LOCKED LOOP W/VCO
74HC4049	HEX INVERTING BUFFER
74HC4050	HEX NON-INVERTING BUFFER
74HC4051	8-CHANNEL MUX/DEMUX
74HC4052	DUAL 4-CHANNEL ANALOG MUX/DMUX
74HC4053	TRIPLE 2-CHANNEL MUX/DEMUX
74HC4059	PROGRAMMABLE DIVIDE-BY-N COUNTER
74HC4060	14-STAGE RC BINARY COUNTER
74HC4066	QUAD BILATERAL SWITCH
74HC4067	16-CHANNEL ANALOG MUX/DEMUX
74HC4075	TRIPLE 3-INPUT OR GATE
74HC4094	8-STAGE SHIFT & STORE BUS REG
74HC42	BCD-TO-DECIMAL DECODER
74HC423	DUAL RETRIG MONO MULTIVIBRATOR
74HC4316	QUAD BILATERAL SWITCH
74HC4351	8-CHANNEL ANALOG MUX-DEMUX
74HC4352	DUAL 4-CHANNEL ANALOG M/DEM/WL
74HC4353	TRIPLE 2-CHANNEL MUX/DEMUX
74HC4510	BCD UP/DOWN COUNTER
74HC4511	BCD TO 7-SEG LATCH DECODR/DRVR
74HC4514	4-16 DECODER/MUX W-LATCHES
74HC4515	4-16 DECODER/MUX W-LATCHES
74HC4516	BINARY UP/DOWN COUNTER
74HC4518	DUAL BCD COUNTER
74HC4520	DUAL BINARY COUNTER
74HC4538	DUAL MONOSTABLE MULTIVIBRATOR
74HC4543	BCD TO 7-SEG LATCH DECODR/DRVR
74HC533	OCTAL 3-STATE LATCH INVERTING
74HC534	OCTAL D FLIP/FLOP INV, 3-STATE
74HC540	OCTAL INV BUFFER, 3-STATE
74HC541	OCTAL BUFFER, 3-STATE
74HC5555	PROG DELAY TIMER W/SCHMITT TRIGGER
74HC563	OCTAL 3-STATE TRANS LATCH, INV
74HC564	OCTAL D-TYPE FLIP/FLOP, 3-STATE
74HC573	OCTAL 3-STATE TRANS LATCH
74HC574	OCTAL D-TYPE FLIP/FLOP POS EDGE 3-STATE
74HC58	DUAL AND/OR GATE
74HC583	BCD ADDER
74HC597	8-BIT SHIFT REG W/INPUT LATCH
74HC640	OCTAL 3-STATE TRANSCEIVER, INV
74HC643	OCTAL TRUE/INV TRANS 3-STATE
74HC646	OCTAL TRAN/REGISTER
74HC648	OCT INVERT TRAN/REGISTER 3-STATE
74HC670	4 × 4 REGISTER FILE 3-STATE
74HC688	8-BIT MAGNITUDE COMPARATOR
74HC7030	64 WORD × 9-BIT FIFO

Alphanumeric Product Listing

74HC7046A	PHASED-LOCKED LOOP W/LOCK
74HC7080	16-BIT PARITY GENERATR CHECKER
74HC7266	QUAD 2-INPUT EXCLUSIVE-NOR GAT
74HC73	DUAL J-K MASTER SLAVE FLIP/FLOP
74HC74	DUAL D-TYPE EDGE TRIGGER FLIP/FLOP
74HC75	4-BIT BISTABLE LATCH
74HC7540	OCT SCHMITT TRIGGER BUF/LINE DR INV
74HC7541	OCT SCHMITT TRIGGER BUF/LINE N/INV
74HC7597	8-BIT SHIFT REGISTER W/LATCHES
74HC85	4-BIT MAGNITUDE COMPARATOR
74HC86	QUAD 2-INPUT EXCLUSIVE-OR GATE
74HC9014	NINE-WIDE BUFFER W/SCH TRIGGER
74HC9015	NINE-WIDE BUFFER W/SCH TRIGGER
74HC9114	NINE-WIDE BUFFER W/SCH TRIGGER
74HC9115	NINE-WIDE BUFFER W/SCH TRIGGER
74HC93	4-BIT BINARY COUNTER
8X300AS3	8 x 305 MCCAP CROSS ASSEMBLE
8X300KT1	8 x 305 PROTOTYPING SYSTEM
8X300KT2	8 x 305 PROTOSYSTEM MEMORY EXP
8X400AS1	8 x 401 XASSEMBLER FORTRESS
8X400KT1	8 x 401 DEVELOPEMENT BOARD

Alphanumeric Product Listing

Military

JM38510/00104BCA
JM38510/00104BDA
JM38510/00105BCA
JM38510/00105BDA
JM38510/00903BCA
JM38510/00905BEA
JM38510/00905BFA
JM38510/01203BEA
JM38510/01302BCA
JM38510/01302BDA
JM38510/01304BEA
JM38510/01304BFA
JM38510/01306BEA
JM38510/01306BFA
JM38510/01309BEA
JM38510/01701BEA
JM38510/01701BFA
JM38510/01702BEA
JM38510/01702BFA
JM38510/07001BCA
JM38510/07001BDA
JM38510/07001B2A
JM38510/07003BCA
JM38510/07003BDA
JM38510/07003B2A
JM38510/07005BCA
JM38510/07005BDA
JM38510/07005B2A
JM38510/07006BCA
JM38510/07006BDA
JM38510/07006B2A
JM38510/07009BEA
JM38510/07009BFA
JM38510/07009B2A
JM38510/07101BCA
JM38510/07101BDA
JM38510/07101B2A
JM38510/07102BEA
JM38510/07102BFA
JM38510/07102B2A
JM38510/07105BEA
JM38510/07105BFA
JM38510/07105B2A
JM38510/07201BCA
JM38510/07201BDA
JM38510/07201B2A
JM38510/07301BCA
JM38510/07301BDA
JM38510/07301B2A
JM38510/07401BCA
JM38510/07401BDA
JM38510/07401B2A
JM38510/07501BCA
JM38510/07501BDA
JM38510/07501B2A
JM38510/07701BEA
JM38510/07701BFA
JM38510/07701B2A
JM38510/07801BJA
JM38510/07901BEA
JB5400F
JB5400W
JB5404F
JB5404W
JB54164F
JB54194F
JB54194W
JB54123F
JB5493F
JB5493W
JB54163F
JB54163W
JB54161F
JB54161W
JB54193F
JB54174F
JB54174W
JB54175F
JB54175W
JB54S00F
JB54S00W
JB54S00GA
JB54S04F
JB54S04W
JB54S04GA
JB54S10F
JB54S10W
JB54S10GA
JB54S20F
JB54S20W
JB54S20GA
JB54S133F
JB54S133W
JB54S133GA
JB54S74F
JB54S74W
JB54S74GA
JB54S112F
JB54S112W
JB54S112GA
JB54S174F
JB54S174W
JB54S174GA
JB54S40F
JB54S40W
JB54S40GA
JB54S02F
JB54S02W
JB54S02GA
JB54S51F
JB54S51W
JB54S51GA
JB54S86F
JB54S86W
JB54S86GA
JB54S138F
JB54S138W
JB54S138GA
JB54S181F
JB54S151F
JM38510/07901BFA
JM38510/07901B2A
JM38510/07902BEA
JM38510/07902BFA
JM38510/07902B2A
JM38510/07903BEA
JM38510/07903BFA
JM38510/07903B2A
JM38510/07904BEA
JM38510/07904BFA
JM38510/07904B2A
JM38510/07905BEA
JM38510/07905BFA
JM38510/07905B2A
JM38510/07908BEA
JM38510/07908BFA
JM38510/07908B2A
JM38510/08001BCA
JM38510/08001BDA
JM38510/08001B2A
JM38510/08003BCA
JM38510/08003BDA
JM38510/08003B2A
JM38510/08101BCA
JM38510/08101BDA
JM38510/08101B2A
JM38510/08201BEA
JM38510/08201BFA
JM38510/08201B2A
JM38510/10105BEA
JM38510/10901BCA
JM38510/10901BPA
JM38510/10902BCA
JM38510/11005BCA
JM38510/11005BDA
JM38510/11201BCA
JM38510/11201BDA
JM38510/15001BEA
JM38510/15001BFA
JM38510/15302BCA
JM38510/16101BCA
JM38510/16101BDA
JM38510/16301BEA
JM38510/16303BEA
JM38510/16304BEA
JM38510/20301BEA
JM38510/20301BFA
JM38510/20302BEA
JM38510/20302BFA
JM38510/20303BEA
JM38510/20303BFA
JM38510/20304BEA
JM38510/20304BFA
JM38510/20401BEA
JM38510/20401BFA
JM38510/20402BEA
JM38510/20402BFA
JM38510/20403BEA
JM38510/20403BFA
JM38510/20404BEA
JB54S151W
JB54S151GA
JB54S153F
JB54S153W
JB54S153GA
JB54S157F
JB54S157W
JB54S157GA
JB54S158F
JB54S158W
JB54S158GA
JB54S251F
JB54S251W
JB54S251GA
JB54S253F
JB54S253W
JB54S253GA
JB54S11F
JB54S11W
JB54S11GA
JB54S08F
JB54S08W
JB54S08GA
JB54S140F
JB54S140W
JB54S140GA
JB54S85F
JB54S85W
JB54S85GA
JBLH2101AF
JB555F
JB555FE
JB556-1F
JBLM124F
JBLM124W
JBLM139AF
JBLM139AW
JB5485F
JB5485W
JB54126F
JB5432F
JB5432W
JB54365AF
JB54367AF
JB54368AF
JB82S126F
JB82S126W
JB82S129F
JB82S129W
JB82S126AF
JB82S126AW
JB82S129AF
JB82S129AW
JB82S130F
JB82S130W
JB82S131F
JB82S131W
JB82S130AF
JB82S130AW
JB82S131AF

Alphanumeric Product Listing

JM38510/20404BFA
JM38510/20602BVA
JM38510/20602BXA
JM38510/20604BVA
JM38510/20604BXA
JM38510/20701BEA
JM38510/20701BFA
JM38510/20702BEA
JM38510/20702BFA
JM38510/20703BEA
JM38510/20703BFA
JM38510/20704BEA
JM38510/20704BFA
JM38510/20802BJA
JM38510/20802BKA
JM38510/20803BJA
JM38510/20803BKA
JM38510/20902BVA
JM38510/20902BYA
JM38510/20904BJA
JM38510/20904BKA
JM38510/20908BVA
JM38510/20908BYA
JM38510/20909BJA
JM38510/20909BKA
JM38510/20910BVA
JM38510/20910BYA
JM38510/21002BJA
JM38510/21002BKA
JM38510/21002BLA
JM38510/21004BJA
JM38510/21004BKA
JM38510/21004BLA
JM38510/21005BRA
JM38510/21101BJA
JM38510/21102BJA
JM38510/21201BJA
JM38510/21202BJA
JM38510/21203BJA
JM38510/21204BJA
JM38510/30001BCA
JM38510/30001BDA
JM38510/30001B2A
JM38510/30003BCA
JM38510/30003BDA
JM38510/30003B2A
JM38510/30005BCA
JM38510/30005BDA
JM38510/30005B2A
JM38510/30007BCA
JM38510/30007BDA
JM38510/30007B2A
JM38510/30102BCA
JM38510/30102BDA
JM38510/30102B2A
JM38510/30106BEA
JM38510/30106BFA
JM38510/30106B2A
JM38510/30107BEA
JM38510/30107BFA
JM38510/30107B2A
JM38510/30301BCA
JM38510/30301BDA
JM38510/30301B2A

JB82S131AW
JB82S137F
JB82S137W
JB82S137AF
JB82S137AW
JB82S23F
JB82S23W
JB82S123F
JB82S123W
JB82S23AF
JB82S23AW
JB82S123AF
JB82S123AW
JB82S141F
JB82S141W
JB82S115F
JB82S115W
JB82S185F
JB82S185W
JB82S181F
JB82S181W
JB82S185BF
JB82S185BW
JB82S181AF
JB82S181AW
JB82S185AF
JB82S185AW
JB82S191F6
JB82S191W
JB82S191F3
JB82S191AF6
JB82S191AW
JB82S191AF3
JB82HS195AF
JBHS321-01F (45NS)
JBHS321-02F (85NS)
JBHS641-01F (70NS)
JBHS641-02F (55NS)
JBHS641-03F (50NS)
JBHS641-04F (45NS)
JB54LS00F
JB54LS00W
JB54LS00GA
JB54LS04F
JB54LS04W
JB54LS04GA
JB54LS10F
JB54LS10W
JB54LS10GA
JB54LS20F
JB54LS20W
JB54LS20GA
JB54LS74AF
JB54LS74AW
JB54LS74AGA
JB54LS174F
JB54LS174W
JB54LS174GA
JB54LS175F
JB54LS175W
JB54LS175GA
JB54LS02F
JB54LS02W
JB54LS02GA

JM38510/30501BCA
JM38510/30501BDA
JM38510/30501B2A
JM38510/30502BCA
JM38510/30502BDA
JM38510/30502B2A
JM38510/30605BCA
JM38510/30605BDA
JM38510/30605B2A
JM38510/30607BEA
JM38510/30607BFA
JM38510/30607B2A
JM38510/30701BEA
JM38510/30701BFA
JM38510/30701B2A
JM38510/30902BEA
JM38510/30902BFA
JM38510/30902B2A
JM38510/30906BEA
JM38510/30906BFA
JM38510/30906B2A
JM38510/30907BEA
JM38510/30907BFA
JM38510/30907B2A
JM38510/31004BCA
JM38510/31004BDA
JM38510/31004B2A
JM38510/31101BEA
JM38510/31101BFA
JM38510/31101B2A
JM38510/31302BCA
JM38510/31302BDA
JM38510/31302B2A
JM38510/31303BCA
JM38510/31303BDA
JM38510/31303B2A
JM38510/31504BEA
JM38510/31504BFA
JM38510/31504B2A
JM38510/31508BEA
JM38510/31508BFA
JM38510/31508B2A
JM38510/31509BEA
JM38510/31509BFA
JM38510/31509B2A
JM38510/31512BEA
JM38510/31512BFA
JM38510/31512B2A
JM38510/32201BEA
JM38510/32201BFA
JM38510/32201B2A
JM38510/32203BEA
JM38510/32203BFA
JM38510/32203B2A
JM38510/32204BEA
JM38510/32204BFA
JM38510/32204B2A
JM38510/32301BCA
JM38510/32301BDA
JM38510/32301B2A
JM38510/32401BRA
JM38510/32401BSA
JM38510/32401B2A
JM38510/32402BRA

JB54LS32F
JB54LS32W
JB54LS32GA
JB54LS86F
JB54LS86W
JB54LS86GA
JB54LS164F
JB54LS164W
JB54LS164GA
JB54LS395AF
JB54LS395AW
JB54LS395AGA
JB54LS138F
JB54LS138W
JB54LS138GA
JB54LS153F
JB54LS153W
JB54LS153GA
JB54LS257AF
JB54LS257AW
JB54LS257AGA
JB54LS258AF
JB54LS258AW
JB54LS258AGA
JB54LS08F
JB54LS08W
JB54LS08GA
JB54LS85F
JB54LS85W
JB54LS85GA
JB54LS14F
JB54LS14W
JB54LS14GA
JB54LS132F
JB54LS132W
JB54LS132GA
JB54LS161AF
JB54LS161AW
JB54LS161AGA
JB54LS193F
JB54LS193W
JB54LS193GA
JB54LS191F
JB54LS191W
JB54LS191GA
JB54LS163AF
JB54LS163AW
JB54LS163AGA
JB54LS365AF
JB54LS365AW
JB54LS365AGA
JB54LS367AF
JB54LS367AW
JB54LS367AGA
JB54LS368AF
JB54LS368AW
JB54LS368AGA
JB54LS125F
JB54LS125W
JB54LS125GA
JB54LS240F
JB54LS240WB
JB54LS240GA
JB54LS241F

Alphanumeric Product Listing

JM38510/32402BSA
JM38510/32402B2A
JM38510/32403BRA
JM38510/32403BSA
JM38510/32403B2A
JM38510/32501BRA
JM38510/32501BSA
JM38510/32501B2A
JM38510/32502BRA
JM38510/32502BSA
JM38510/32502B2A
JM38510/32503BRA
JM38510/32503BSA
JM38510/32503B2A
JM38510/32504BRA
JM38510/32504BSA
JM38510/32504B2A
JM38510/32702BCA
JM38510/32702BDA
JM38510/32702B2A
JM38510/32803BRA
JM38510/32803BSA
JM38510/32803B2A
JM38510/33001BCA
JM38510/33001BDA
JM38510/33001B2A
JM38510/33002BCA
JM38510/33002BDA
JM38510/33002B2A
JM38510/33003BCA
JM38510/33003BDA
JM38510/33003B2A
JM38510/33004BCA
JM38510/33004BDA
JM38510/33004B2A
JM38510/33201BRA
JM38510/33201BSA
JM38510/33201B2A
JM38510/33202BRA
JM38510/33202BSA
JM38510/33202B2A
JM38510/33203BRA
JM38510/33203BSA
JM38510/33203B2A
JM38510/33301BCA
JM38510/33301BDA
JM38510/33301B2A
JM38510/33401BCA
JM38510/33401BDA
JM38510/33401B2A
JM38510/33501BCA
JM38510/33501BDA
JM38510/33501B2A
JM38510/33601BEA
JM38510/33601BFA
JM38510/33601B2A
JM38510/33701BEA
JM38510/33701BFA
JM38510/33701B2A
JM38510/33702BEA
JM38510/33702BFA
JM38510/33702B2A
JM38510/33903BEA
JB54LS241W
JB54LS241GA
JB54LS244F
JB54LS244W
JB54LS244GA
JB54LS273F
JB54LS273WB
JB54LS273GA
JB54LS373F
JB54LS373W
JB54LS373GA
JB54LS374F
JB54LS374WB
JB54LS374GA
JB54LS377F
JB54LS377WB
JB54LS377GA
JB54LS393F
JB54LS393W
JB54LS393GA
JB54LS245F
JB54LS245W
JB54LS245GA
JB54F00F
JB54F00W
JB54F00GA
JB54F04F
JB54F04W
JB54F04GA
JB54F10F
JB54F10W
JB54F10GA
JB54F20F
JB54F20W
JB54F20GA
JB54F240F
JB54F240WB
JB54F240GA
JB54F241F
JB54F241WB
JB54F241GA
JB54F244F
JB54F244WB
JB54F244GA
JB54F02F
JB54F02W
JB54F02GA
JB54F64F
JB54F64W
JB54F64GA
JB54F32F
JB54F32W
JB54F32GA
JB54F194F
JB54F194W
JB54F194GA
JB54F138F
JB54F138W
JB54F138GA
JB54F139F
JB54F139W
JB54F139GA
JB54F157AF
JM38510/33903BFA
JM38510/33903B2A
JM38510/34001BCA
JM38510/34001BDA
JM38510/34001B2A
JM38510/34002BCA
JM38510/34002BDA
JM38510/34002B2A
JM38510/34101BCA
JM38510/34101BDA
JM38510/34101B2A
JM38510/34102BEA
JM38510/34102BFA
JM38510/34102B2A
JM38510/34103BEA
JM38510/34103BFA
JM38510/34103B2A
JM38510/34104BEA
JM38510/34104BFA
JM38510/34104B2A
JM38510/34105BRA
JM38510/34105BSA
JM38510/34105B2A
JM38510/34107BEA
JM38510/34107BFA
JM38510/34107B2A
JM38510/34301BEA
JM38510/34301BFA
JM38510/34301B2A
JM38510/34302BEA
JM38510/34302BFA
JM38510/34302B2A
JM38510/34304BEA
JM38510/34304BFA
JM38510/34304B2A
JM38510/34403BEA
JM38510/34403BFA
JM38510/34403B2A
JM38510/34601BRA
JM38510/34601BSA
JM38510/34601B2A
JM38510/34803BRA
JM38510/34803BSA
JM38510/34803B2A
JM38510/34901BCA
JM38510/34901BDA
JM38510/34901B2A
JM38510/35001BRA
JM38510/35001BSA
JM38510/35001B2A
JM38510/35002BEA
JM38510/35002BFA
JM38510/35002B2A
JM38510/36101BEA
JM38510/36101BFA
JM38510/36101B2A
JM38510/50201BXA
JM38510/50202BXA
JM38510/54002BYA
JM38510/54002BZA
JM38510/54003BYA
JM38510/54003BZA
JB54F157AW
JB54F157AGA
JB54F08F
JB54F08W
JB54F08GA
JB54F11F
JB54F11W
JB54F11GA
JB54F74F
JB54F74W
JB54F74GA
JB54F109F
JB54F109W
JB54F109GA
JB54F112F
JB54F112W
JB54F112GA
JB54F175F
JB54F175W
JB54F175GA
JB54F374F
JB54F374WB
JB54F374GA
JB54F174F
JB54F174W
JB54F174GA
JB54F161AF
JB54F161AW
JB54F161AGA
JB54F163AF
JB54F163AW
JB54F163AGA
JB54F193F
JB54F193W
JB54F193GA
JB54F190F
JB54F190W
JB54F190GA
JB54F373F
JB54F373WB
JB54F373GA
JB54F245F
JB54F245WB
JB54F245GA
JB54F280AF
JB54F280AW
JB54F280AGA
JB54F398F
JB54F398W
JB54F398GA
JB54F399F
JB54F399W
JB54F399GA
JB54LS173F
JB54LS173W
JB54LS173GA
JB82S101F
JB82S100F
JB68000-8I
JB68000-8GA
JB68000-10I
JB68000-10GA

Alphanumeric Product Listing

LM119/BCA	HIGH SPEED DUAL COMPARATOR
LM124/BCA	QUAD OP AMP
LM139/BCA	QUAD VOLTAGE COMPARATOR
LM139/BDA	QUAD VOLTAGE COMPARATOR
LM139A/BCA	QUAD VOLTAGE COMPARATOR
LM139A/BDA	QUAD VOLTAGE COMPARATOR
PLS167/BLA	PLD FPLS 12 × 48 × 6
PLS168/BLA	PLD FPLS 12 × 48 × 8
PLS173/BLA	PLD FPLA 22 × 42 × 10
PLS179/BLA	FIELD PROG LOGIC SEQUENCER
UA733/BCA	DIFFERENTIAL VIDEO AMPLIFIER
26LS31/BEA	QUAD DIFF LINE DRIVER
26LS31/BFA	QUAD DIFF LINE DRIVER
26LS31/B2A	QUAD DIFF LINE DRIVER
26LS32/BEA	QUAD HIGH SPEED DIFF RECEIVER
26LS32/BFA	QUAD HIGH SPEED DIFF RECEIVER
26LS32/B2A	QUAD HIGH SPEED DIFF RECEIVER
26LS32A/BEA	QUAD HIGH SPEED DIFF RECEIVER
26LS32A/BFA	QUAD HIGH SPEED DIFF RECEIVER
26LS32A/B2A	QUAD HIGH SPEED DIFF RECEIVER
26LS33/BEA	QUAD HIGH SPEED RECEIVER
26LS33A/BEA	QUAD HI-SPEED RECERIVER
2681/BQA	DUART
2681/BUA	DUART
2681/BXA	DUART
2692/BQA	CMOS DUART
2692/BXA	DUAL UART
27C256/BXA-20	256K CMOS EPROM 200NS
27C256/BXA-25	256K CMOS EPROM 250NS
27C64A/BXA-20	64K CMOS EPROM 200NS
27C64A/BXA-25	64K CMOS EPROM 250NS
27HC641/BJA-70	64K EPROM 70NS
27HC641/BJAOT-70	64K EPROM 70NS
27HC641/B3A-70	64K EPROM 70NS
27HC641/B3AOT-55	64K EPROM 55NS OTP
27HC641/B3AOT-70	64K EPROM 70NS OTP
5018/BWA	8 BIT D/A CONVERTER VOLT OUT
5205/BPA	HI FREQUENCY OP AMP
521/BCA	HIGH SPEED COMPARATOR
521/BDA	HIGH SPEED COMPARATOR
5212/BPA	FIBER OPTIC TRANSIMPEDANCE AMP
522/BCA	HIGH SPEED DUAL DIFF COMP
527/BCA	VOLTAGE COMPARATOR
527/BDA	VOLTAGE COMPARATOR
529/BCA	HIGH SPEED COMPARATOR
529/BDA	HIGH SPEED COMPARATOR
54F00/BCA	QUAD 2-INPUT NAND GATE
54F00/BDA	QUAD 2-INPUT NAND GATE
54F00/B2A	QUAD 2-INPUT NAND GATE
54F02/BCA	QUAD 2-INPUT NOR GATE
54F02/B2A	QUAD 2-INPUT NOR GATE
54F04/BCA	HEX INVERTER
54F04/BDA	HEX INVERTER
54F04/B2A	HEX INVERTER
54F08/BCA	QUAD 2-INPUT AND GATE
54F08/BDA	QUAD 2-INPUT AND GATE
54F08/B2A	QUAD 2-INPUT AND GATE
54F10/BCA	TRIPLE 3-INPUT NAND GATE
54F109/BEA	DUAL J-K FLIP/FLOP
54F109/B2A	DUAL J-K FLIP/FLOP
54F11/BCA	TRIPLE 3-INPUT AND GATE
54F11/BDA	TRIPLE 3-INPUT AND GATE
54F11/B2A	TRIPLE 3-INPUT AND GATE
54F112/BEA	DUAL J-K FLIP/FLOP
54F112/BFA	DUAL J-K FLIP/FLOP
54F112/B2A	DUAL J-K FLIP/FLOP
54F113/BCA	DUAL J-K FLIP/FLOP
54F113/BDA	DUAL J-K FLIP/FLOP
54F1240/BRA	OCTAL 3-STATE BUFFER
54F125/BCA	QUAD BUFFER (3-STATE)
54F125/BDA	QUAD BUFFER (3-STATE)
54F125/B2A	QUAD BUFFER (3-STATE)
54F126/BCA	BUFFER
54F126/BDA	BUFFER
54F126/B2A	BUFFER
54F138/BEA	1-OF-8 DECODER/DEMUX
54F138/BFA	1-OF-8 DECODER/DEMUX
54F138/B2A	1-OF-8 DECODER/DEMUX
54F139/BEA	DUAL 1-OF-4 DECODER/DEMUX
54F139/B2A	DUAL 1-OF-4 DECODER/DEMUX
54F14/BCA	HEX SCHMITT TRIGGER
54F14/BDA	HEX SCHMITT TRIGGER
54F14/B2A	HEX SCHMITT TRIGGER
54F148/BEA	8-TO-3 PRIORITY ENCODER
54F154/BLA	4-TO-16 DECODER/DEMUX
54F157A/BEA	QUAD 2-IN DATA SELECTOR INV
54F157A/BFA	QUAD 2-IN DATA SELECTOR INV
54F157A/B2A	QUAD 2-IN DATA SELECTOR INV
54F158A/BEA	QUAD 2-INPUT MULTIPLEXER
54F161A/BEA	SYNC 4-BIT BINARY COUNTER
54F161A/BFA	SYNC 4-BIT BINARY COUNTER
54F161A/B2A	SYNC 4-BIT BINARY COUNTER
54F163A/BEA	SYNC 4-BIT BINARY COUNTER
54F163A/BFA	SYNC 4-BIT BINARY COUNTER
54F163A/B2A	SYNC 4-BIT BINARY COUNTER
54F164/BCA	8 BIT SIPO SHIFT REG.
54F169/BEA	SYNC BINARY 4 BIT UP/DOWN COUNTER
54F173/BEA	QUAD 3-STATE D-TYPE FLIP/FLOP
54F174/BEA	HEX D FLIP/FLOP WITH CLEAR
54F175/BEA	QUAD D-TYPE FLIP/FLOP
54F181/BLA	4-BIT ARITHMETIC LOGIC UNIT
54F190/BEA	DECADE UP/DOWN COUNTER
54F193/BEA	4-BIT BINARY UP/DOWN COUNTER
54F194/BEA	4-BIT SHIFT REGISTER
54F194/B2A	4-BIT SHIFT REGISTER
54F198/BLA	8 BIT SHIFT REGISTER
54F20/BCA	DUAL 4-INPUT NAND GATE
54F20/B2A	DUAL 4-INPUT NAND GATE
54F240/BRA	OCTAL 3-STATE BUFFER
54F240/B2A	OCTAL 3-STATE BUFFER
54F241/BRA	OCTAL BUS/LINE DRIVER
54F244/BRA	OCTAL BUS/LINE DRIVER
54F244/BSA	OCTAL BUS/LINE DRIVER
54F244/B2A	OCTAL BUS/LINE DRIVER
54F245/BRA	OCTAL BUS TRANCEIVER
54F245/BSA	OCTAL BUS TRANSCEIVER
54F245/B2A	OCTAL BUS TRANCEIVER
54F253/BEA	DUAL 4-INPUT MULTIPLEXER
54F253/B2A	DUAL 4-INPUT MULTIPLEXER
54F257A/BEA	QUAD 2-TO-1 MUX (3-STATE)
54F257A/BFA	QUAD 2-TO-1 MUX (3-STATE)
54F258A/BEA	QUAD 2-TO-1 MUX (3-STATE)
54F259/BEA	8-BIT ADDRESSABLE LATCH
54F269/BLA	8-BIT BIDIRECTIONAL BINARY COUNTER
54F269/B3A	8-BIT BIDIRECTIONAL BINARY COUNTER
54F273/BRA	OCTAL D-TYPE FLIP/FLOP
54F273/BSA	OCTAL D-TYPE FLIP/FLOP
54F280A/BCA	9-BIT ODD/EVEN PAR GEN CHECKER

Alphanumeric Product Listing

54F280A/B2A	9-BIT ODD/EVEN PAR GEN CHECKER
54F280B/BCA	9-BIT ODD/EVEN PARITY GEN
54F280B/BDA	9-BIT ODD/EVEN PARITY GEN
54F280B/B2A	9-BIT ODD/EVEN PARITY GEN
54F299/BRA	OCTAL SHIFT/STORAGE REGISTER
54F299/BSA	OCTAL SHIFT/STORAGE REGISTER
54F3037/BEA	QUAD 2-IN NAND TRANS LINE DRIVER
54F32/BCA	QUAD 2-INPUT OR GATE
54F32/BDA	QUAD 2-INPUT OR GATE
54F32/B2A	QUAD 2-INPUT OR GATE
54F367/BEA	HEX BUFFER 4 BIT AND 2 BIT, 3-STATE
54F367/BFA	HEX BUFFER,4-BIT &2-BIT, 3-STATE
54F37/BCA	QUAD 2-INPUT NAND-BUFFER
54F37/BDA	QUAD 2-INPUT NAND BUFFER
54F373/BRA	OCTAL 3-STATE LATCH
54F373/B2A	OCTAL 3-STATE LATCH
54F374/BRA	OCTAL D-FLIP/FLOP 3-STATE
54F374/B2A	OCTAL D-FLIP/FLOP 3-STATE
54F38/BCA	QUAD 2-INPUT NAND BUFFER O/C
54F38/B2A	QUAD 2-INPUT NAND BUFFER
54F398/BRA	4-BIT FLIP/FLOP TRUE AND COMP OUTPUT
54F399/BEA	4-BIT FLIP/FLOP TRUE AND COMP OUTPUT
54F432/BLA	OCTAL BUFFERED LATCH
54F455/BKA	OCTAL INV BUFFER W/PARITY
54F455/BLA	OCTAL INV BUFFER W/PARITY
54F5074/BCA	METASTABLE IMMUNE D FLIP/FLOP
54F5074/BDA	METASTABLE IMMUNE D FLIP/FLOP
54F5074/B2A	METASTABLE IMMUNE D FLIP/FLOP
54F51/BCA	DUAL 2-WIDE 2-INPUT AOI GATE
54F521/BRA	8-BIT IDENT COMPARATOR
54F538/BRA	1-OF-8 DECODER (3-STATE)
54F538/B2A	1-OF-8 DECODER (3-STATE)
54F543/BKA	OCTAL LATCHED TRANSCEIVER
54F543/BLA	OCTAL LATCHED TRANSCEIVER
54F543/B3A	OCTAL LATCHED TRANSCEIVER
54F544/BLA	OCT TRANS BIDIRECT LATCH
54F573/BRA	OCTAL D-LATCH,BROADSIDE PINOUT
54F574/BRA	OCTAL D FLIP/FLOP, BROADSIDE PINOUT
54F579/BRA	8-BIT UP/DOWN COUNTER
54F64/BCA	AND/OR-INVERT GATE
54F64/B2A	AND/OR INVERT GATE
54F640/BRA	OCTAL BUS TRANSCEIVER
54F640/B2A	OCTAL BUS TRANCEIVER
54F646A/BLA	OCTAL BUS TRANS/ REG NINV
54F655A/BLA	OCTAL INVERTER BUFFER W/PARITY
54F656A/BLA	OCTAL NON-INV BUFFER W/PARITY
54F657/BLA	OCTAL BUFFER W/PARITY GEN/CHER
54F676/BLA	16-BIT SHIFT REGISTER SIPO
54F74/BCA	DUAL D-TYPE EDGE TRIGGER
54F74/BDA	DUAL D-TYPE EDGE TRIGGER
54F74/B2A	DUAL D-TYPE EDGE TRIGGER
54F776/BXA	P1-BUS TRANSCEIVER
54F776/BYA	P1-BUS TRANSCEIVER
54F776/B3A	P1-BUS TRANSCEIVER
54F777/BRA	TM-BUS TRANSCEIVER
54F777/BSA	TM-BUS TRANSCEIVER
54F777/B2A	TM BUS TRANSCEIVER
54LS00/BCA	QUAD 2-INPUT NAND-GATE
54LS00/BDA	QUAD 2-INPUT NAND-GATE
54LS02/BCA	QUAD 2-INPUT NOR GATE
54LS02/BDA	QUAD 2-INPUT NOR GATE
54LS04/BCA	HEX INVERTER
54LS04/BDA	HEX INVERTER
54LS08/BCA	QUAD 2-INPUT AND GATE
54LS08/BDA	QUAD 2-INPUT AND GATE
54LS10/BCA	TRIPLE 3-INPUT NAND GATE
54LS125/BCA	QUAD 3-STATE BUS BUFFER
54LS138/BEA	1-OF-8 DECODER/DEMUX
54LS138/B2A	1-OF-8 DECODER/DEMUX
54LS14/BCA	HEX SCHMITT TRIGGER
54LS14/BDA	HEX SCMITT TRIGGER
54LS154/BJA	1-OF-16 DECODER/DEMUX
54LS161A/BEA	4-BIT BINARY COUNTER
54LS163A/BEA	SYNC 4-BIT BINARY COUNTER
54LS164/BCA	8-BIT SIPO S/R
54LS164/BDA	8-BIT SIPO S/R
54LS173/BEA	QUAD 3-STATE D-TYPE FLIP/FLOP
54LS174/BEA	HEX D-TYPE FLIP/FLOP WITH CLEAR
54LS174/BFA	FLIP/FLOP
54LS175/BEA	QUAD D TYPE EDGE-TRIG FLIP/FLOP
54LS191/BEA	SYNC BINARY UP/DOWN COUNTER
54LS193/BEA	4-BIT BINARY UP/DOWN COUNTER
54LS20/BCA	DUAL 4-INPUT NAND GATE
54LS20/BDA	DUAL 4-INPUT NAND GATE
54LS240/BRA	OCTAL INV BUFFER (3-STATE)
54LS241/BRA	OCTAL 3-STATE BUFFER
54LS244/BRA	MIL DWG 7705701RA
54LS244/BSA	OCTAL BUFFER, 3-STATE
54LS245/BRA	OCTAL TRANSCEIVER
54LS245/B2A	OCTAL TRANSCEIVER, 3-STATE
54LS257A/BEA	QUAD 2 TO 1 MUX (3-STATE)
54LS273/BRA	OCTAL D FLIP/FLOP
54LS365A/BEA	HEX BUFFER W/COMMON ENABLE
54LS367A/BEA	HEX BUFFER, 4-BIT & 2-BIT
54LS367A/BFA	HEX BUFFER, 4-BIT & 2-BIT
54LS373/BRA	OCTAL 3-STATE LATCH
54LS373/B2A	OCTAL 3-STATE LATCH
54LS374/BRA	OCTAL REGISTER
54LS374/BSA	OCTAL REGISTER
54LS377/BRA	OCTAL D-TYPE FLIP/FLOP W/ENABLE
54LS393/BCA	DUAL BINARY RIPPLE COUNTER
54LS395A/BEA	4-BIT CASCADABLE S/R 3-STATE
54LS74A/BCA	DUAL D-TYPE EGDE TRIGGERED FLIP/FLOP
54LS74A/BDA	DUAL D-TYPE EDGE TRIGGERED FLIP/FLOP
54LS85/BEA	4-BIT MAGNITUDE COMPARATOR
54LS86/BCA	QUAD 2-INPUT EXCLUSIVE OR GATE
54LS86/BDA	QUAD 2-INPUT EXCLUSIVE OR GATE
54LS86/B2A	QUAD 2-INPUT EXCLUSIVE OR GATE
54S00/BCA	QUAD 2-INPUT NAND GATE
54S00/BDA	QUAD 2-INPUT NAND GATE
54S02/BCA	QUAD 2-INPUT NOR GATE
54S02/BDA	QUAD 2-INPUT NOR GATE
54S04/BCA	HEX INVERTER
54S04/BDA	HEX INVERTER
54S08/BCA	QUAD 2-INPUT AND GATE
54S08/BDA	QUAD 2-INPUT AND GATE
54S10/BCA	TRIPLE 3-INPUT NAND GATE
54S10/BDA	TRIPLE 3-INPUT NAND GATE
54S11/BCA	TRIPLE 3-INPUT AND GATE
54S112/BEA	DUAL J-K NEG EDGE FLIP/FLOP
54S112/BFA	DUAL J-K NEG EDGE FLIP/FLOP
54S133/BEA	13-INPUT NAND GATE
54S138/BEA	3-TO-8 DECODER/DEMUX
54S140/BCA	DUAL 4-INPUT NAND LINE DRIVER
54S140/BDA	DUAL 4-INPUT NAND LINE DRIVER
54S140/B2A	DUAL 4-INPUT NAND LINE DRIVER
54S151/BEA	8-TO-1 MUX
54S151/BFA	8-TO-1 MUX

Alphanumeric Product Listing

54S153/BEA	DUAL 4-TO-1 MUX
54S157/BEA	QAUD 2-TO-1 DATA SELECT/MUX
54S157/BFA	QUAD 2-TO-1 DATA SELECT/MUX
54S158/BEA	QUAD 2-TO-1 DATA SELECT/MUX
54S174/BEA	HEX D FLIP/FLOP WITH CLEAR
54S181/BJA	4-BIT ALU
54S181/B3A	4-BIT ALU
54S189/BEA	64-BIT RAM (16 x 4) TS
54S20/BCA	DUAL 4-INPUT NAND GATE
54S240/BRA	OCTAL 3-STATE BUFFER
54S241/BRA	OCTAL 3-STATE BUFFER
54S241/B2A	OCTAL 3-STATE BUFFER
54S244/BRA	OCTAL 3-STATE BUFFER
54S253/BEA	DUAL 4-TO-1 DATA SELECTOR/MUX
54S273/BRA	OCTAL D FLIP/FLOP
54S373/BRA	OCTAL 3-STATE LATCH
54S374/BRA	OCTAL D-FLIP/FLOP, 3-STATE
54S374/BSA	OCTAL D-FLIP/FLOP, 3-STATE
54S51/BCA	DUAL 2-WIDE 2-INPUT AOI GATE
54S74/BCA	DUAL D-TYPE EGDE TRIGGER FLIP/FLOP
54S74/BDA	DUAL D-TYPE EDGE TRIGGER FLIP/FLOP
54S85/BEA	4-BIT MAGNITUDE COMPARATOR
54S85/B2A	4-BIT MAGNITUDE COMPARATOR
54S86/BCA	QUAD 2-INPUT EXCLUSIVE OR GATE
5400/BCA	QUAD 2-INPUT NAND GATE
5400/BDA	QUAD 2-INPUT NAND GATE
5404/BCA	HEX INVERTER
54123/BEA	RETRIG MONOSTABLE MULTIVIBRATOR
54161/BEA	SYNC 4-BIT BINARY COUNTER
54163/BEA	SYNC 4-BIT BINARY COUNTER
54164/BCA	8-BIT SIPO S/R
54174/BEA	HEX D-TYPE FLIP/FLOP WITH CLEAR
54175/BEA	QUAD D-TYPE EDGE-TRIG FLIP/FLOP
54193/BEA	SYNC 4-BIT UP/DOWN COUNTER
54194/BEA	SYNC 4-BIT UP/DOWN COUNTER
54365A/BEA	HEX BUFFER W/COMMON ENABLE 3-STATE
54367A/BEA	HEX BUFFER, 4-BIT & 2-BIT, 3-STATE
54368A/BEA	HEX INVERT, 4-BIT & 2-BIT, 3-STATE
5485/BEA	4-BIT MAGNITUDE COMPARATOR
5493/BCA	4-BIT BINARY COUNTER
5512/BPA	883 REV C COMPLIANT
5521/BVA	LVDT SIGNAL CONDITIONER
5532/BPA	LOW NOISE OP AMP
5532A/BPA	883 REV C COMPLIANT
5534/BPA	883 REV C COMPLIANT
5534A/BPA	883 REV C COMPLIANT
5537/BPA	SAMPLE AND HOLD AMPLIFIER
5539/BCA	VIDEO OP AMP
555/BCA	TIMER
555/BPA	TIMER
556-1/BCA	DUAL TIMER
5560/BEA	S.M.P.S. CONTROL CIRCUIT
567/BCA	TONE DECODER
567/BPA	TONE DECODER
568A/BRA	PHASE-LOCKED LOOP (15MHZ)
592/BCA	VIDEO AMPLIFIER
5962-8506401MQA	80C31BH/BQA
5962-8506401MXA	80C31BH/BUA
5962-8506401MYA	80C31BH/BYA
5962-8506403MQA	80C31-16/BQA
5962-8506403MXA	80C31BH-16/BUA
5962-8550301QA	8X320/BQA
5962-8605201WA	8X350/BWA
5962-86052013A	8X350/B3A
5962-8606301XA	27C256/BXA-20
5962-8606301YA	27C256/BUA-20
5962-8606302XA	27C256/BXA-25
5962-8606302YA	27C256/BUA-25
5962-8606401CA	5539/BCA
5962-8607001EA	54F148/BEA
5962-8607001FA	54F148/BFA
5962-86070012A	54F148/B2A
5962-8607101CA	54F164/BCA
5962-8607101DA	54F164/BDA
5962-86071012A	54F164/B2A
5962-8607201EA	54F169/BEA
5962-8607201FA	54F169/BFA
5962-86072012A	54F169/B2A
5962-8607501EA	54F350/BEA
5962-8670301EA	82S123A/BEA (35NS)
5962-8670301FA	82S123A/BFA (35NS)
5962-8670302EA	82S123B/BEA (30NS)
5962-8670901XA	82S105/BXA
5962-8670901YA	82S105/BYA
5962-86709013A	82S105/B3A
5962-8672201EA	5560/BEA
5962-8681001XA	68562/BXA
5962-8685001EA	54F194/BEA
5962-8685001FA	54F194/BFA
5962-86850012A	54F194/B2A
5962-8685101XA	8X376/BXA
5962-8687201CA	54F38/BCA
5962-8687201DA	54F38/BDA
5962-8700301CA	567/BCA
5962-8700301PA	567/BPA
5962-8751601CA	521/BCA
5962-8751601DA	521/BDA
5962-8757201CA	527/BCA
5962-8757201DA	527/BDA
5962-8757202CA	529/BCA
5962-8757202DA	529/BDA
5962-8757601XA	8X371/BXA
5962-8768201RA	82S153A/BRA
5962-8768201SA	LAST TIME BUY
5962-87682012A	82S153A/B2A
5962-8768401MQA	87C51/BQA
5962-8768401MUA	87C51/BUA
5962-8768401QA	87C51/BQA
5962-8768401UA	87C51/BUA
5962-8768402MQA	87C51-16/BQA
5962-8768402MUA	87C51-16/BUA
5962-8768402QA	87C51-16/BQA
5962-8768402UA	87C51-16/BUA
5962-8770301WA	256 x 9 BIPOLAR SRAM
5962-8770501XA	68172/BXA
5962-8773901CA	LM139A/BCA
5962-8773901DA	LM139A/BDA
5962-8778801FA	82S129/BFA
5962-8778802EA	82S129A/BEA
5962-8778802FA	82S129A/BFA
5962-8850402LA	PLS173/BLA
5962-8850701LA	PLS179/BLA
5962-8854601KA	54F676/BKA
5962-8854601LA	54F676/BLA
5962-88546013A	54F676/B3A
5962-8855001RA	54F273/BRA
5962-8855001SA	54F273/BSA
5962-88550012A	54F273/B2A

Alphanumeric Product Listing

5962-8856601XA	2681/BXA
5962-8856602QA	2681/BQA
5962-8856602UA	2681/BUA
5962-8856602YA	2681/BYA
5962-8856603QA	68681/BQA
5962-8856603UA	68681/BUA
5962-8857201QA	68154/BQA
5962-8862701LA	54F269/BLA
5962-88627013A	54F269/B3A
5962-8866601QA	68155/BQA
5962-8870701XA	54F776/BXA
5962-8870701YA	54F776/BYA
5962-88707013A	54F776/B3A
5962-8875201CA	54F14/BCA
5962-88752012A	54F14/B2A
5962-8877401CA	54F51/BCA
5962-88774012A	54F51/B2A
5962-8953201XA	2692/BXA
5962-8953202QA	2692/BQA
5962-8953202UA	2692/BUA
5962-8953202YA	2692/BYA
5962-8953501KA	54F657/BKA
5962-8953501LA	54F657/BLA
5962-8954501RA	54F579/BRA
5962-89545012A	54F579/B2A
5962-8955501KA	54F544/BKA
5962-8955501LA	54F544/BLA
5962-89555013A	54F544/B3A
5962-8956401EA	604A/BEA
5962-8957301RA	54F299/BRA
5962-8957301SA	54F299/BSA
5962-89573012A	54F299/B2A
5962-8972301EA	54F259/BEA
5962-8972301FA	54F259/BFA
5962-89723012A	54F259/B2A
5962-8972401RA	54F574/BRA
5962-8972401SA	54F574/BSA
5962-89724012A	54F574/B2A
5962-8972601UA	80C451/BUA
5962-8972601XA	80C451/BXA
5962-9050201KA	54F198/BKA
5962-9050201LA	54F198/BLA
5962-90502013A	54F198/B3A
5962-9058501KA	54F432/BKA
5962-9058501LA	54F432/BLA
5962-90585013A	54F432/B3A
5962-9087901MVA	5521/BVA
602/BPA	DOUBLE BAL MIXER/OSCILLATOR
604A/BEA	HI PERFORMANCE FM IF
605/BRA	MIXER/IF AMP
605/B2A	MIXER/IF AMP
68000-10/BUA	10MHZ SMD#8202103ZA
68000-10/BXA	10MHZ SMD#8202103YA
68000-8/BUA	8MHZ SMD#8202102ZA
68000-8/BXA	8MHZ SMD#8202102YA
68154/BQA	INTERRUPT GENERATOR
68155/BQA	VME INTERRUPT HANDLER
68172/BXA	VME BUS CONTROLLER
68562/BXA	DUSCC
68681/BQA	DUART
68681/BUA	DUART
7600501EA	54LS138/BEA
7600501FA	54LS138/BFA
7600601EA	54LS193/BEA
7600801EA	54LS161A/BEA
7600901EA	54LS191/BEA
7603401EA	54LS163A/BEA
7603701EA	54LS257A/BEA
7604101EA	54S138/BEA
7700801CA	LM139/BCA
7700801DA	LM139/BDA
7704301CA	LM124/BCA
7704301DA	LM124/BDA
7705701RA	54LS244/BRA
7705701SA	54LS244/BSA
7801001RA	54LS273/BRA
7801001SA	54LS273/BSA
78010012A	54LS273/B2A
7801101RA	54LS374/BRA
7801101SA	54LS374/BSA
78011012A	54LS374/B2A
7801201RA	54LS240/BRA
7801201SA	54LS240/BSA
7801502EA	54S189/BEA
7801502FA	54S189/BFA
7801601JA	82S141/BJA
7801601KA	82S141/BKA
78016013A	82S141/B3A
7802001EA	26LS32/BEA
7802001FA	26LS32/BFA
78020012A	26LS32/B2A
7802003EA	26LS32A/BEA
78020032A	26LS32A/B2A
7802301EA	26LS31/BEA
7802301FA	26LS31/BFA
78023012A	26LS31/B2A
8T09/BCA	3-STATE QUAD BUS DRIVER
8T26A/BEA	QUAD 3-STATE BUS DRIVER/RECEIVER
8X305/BUA	8-BIT MICROCONTROLLER
8X305/BUA-10	8-BIT MICROCONTROLLER
8X305/BXA	ORDER MIL DWG 8550201XA
8X305/BXA-10	8-BIT MICROCONTROLLER
8X305/BYA	MIL DWG 8550201YA
8X305/BYA-10	8-BIT MICROCONTROLLER
8X320/BQA	8/16 BIT I/O REGISTER ARRAY
8X350/BWA	2048 BIT RAM 256 × 8-55
8X371/BXA	8 BIT I/O PORT
8X372/BXA	8 BIT PROGRAMMABLE I/O PORT
8X376/BXA	8 BIT PROGRAMMABLE I/O PORT
8X60/BXA	FIFO RAM CONTROLLER
80C31BH-16/BQA	16MHZ CLOCK
80C31BH-16/BUA	16MHZ CLOCK
80C31BH-16/BYA	16MHZ CLOCK
80C31BH/BQA	8-BIT MCU 12.5MHZ (NO ROM)
80C31BH/BUA	8-BIT MCU 12.5MHZ (NO ROM)
80C31BH/BYA	8-BIT MCU 12.5MHZ (NO ROM)
80C451/BUA	EXPIO 8-BIT NO ROM 12MHZ
80C451/BXA	EXP I/O 8-BIT MCU NO ROM 12MHZ
80C51BH-16/BQA	16MHZ CLOCK
80C51BH-16/BUA	16MHZ CLOCK
80C51BH-16/BYA	16MHZ CLOCK
80C51BH/BQA	8-BIT MCU 12MHZ 4K ROM
80C51BH/BUA	8-BIT MCU 12MHZ 4K ROM
80C51BH/BYA	8-BIT MCU 12MHZ 4K ROM
80021012A	54LS245/B2A
8002201EA	54S251/BEA
82HS195A/BRA	16K PROM (4096 × 4)TS 40NS
82HS321A/BJA	32K PROM 45NS

Alphanumeric Product Listing

82HS321A/BKA	32K PROM 45NS
82HS321A/B3A	32K PROM 45NS
82HS641A/BJA	64K PROM 55NS
82HS641A/B3A	64K PROM 55NS
82HS641B/BJA	64K-BIT (8192X8) 45 NS
82HS641B/B3A	64K-BIT PROM (8192 × 8) 45NS
82S09/BXA	BIPOLAR RAM 64 × 90C
82S100/BXA	FPLA 16 × 8 × 48 TS
82S100/BYA	FPLA 16 × 8 × 48 TS
82S100/B3A	FPLA 16 × 8 × 48 TS
82S101/BXA	FPLA 16 × 8 × 48 OC
82S101/B3A	FPLA 16 × 8 × 48 OC
82S105/BXA	FPLS 16 × 8 × 48 TS
82S105/BYA	FPLS 16 × 8 × 48 TS
82S105/B3A	FPLS 16 × 8 × 48 TS
82S115/BJA	4K PROM (512 × 8) LATCHED 90NS
82S123/BEA	256-BIT PROM (32 × 8) TS 50NS
82S123/BFA	256-BIT PROM (32 × 8) TS 50NS
82S123A/BEA	256-BIT PROM (32 × 8) TS 35NS
82S123A/BFA	256-BIT PROM (32 × 8) TS 35NS
82S123B/BEA	256-BIT PROM (32 × 8) TS 30NS
82S126/BEA	1K PROM (256 × 4) OC 60NS
82S126/BFA	1K PROM (256 × 4) OC 60NS
82S126A/BEA	1K PROM (265 × 4) OC 35NS
82S129/BEA	1K PROM (256 × 4) TS 60NS
82S129/BFA	1K PROM (256 × 4) TS 60NS
82S129A/BEA	1K PROM (256 × 4) TS 35NS
82S129A/BFA	1K PROM (256 × 4) TS 35NS
82S130/BEA	2K PROM (512 × 4) OC 60NS
82S130A/BEA	2K PROM (512 × 4) OC 35NS
82S131/BEA	2K PROM (512 × 4) TS 60NS
82S131/BFA	2K PROM (512 × 4) TS 60NS
82S131A/BEA	2K PROM (512 × 4) TS 35NS
82S137/BVA	4K PROM (1024 × 4) TS 70NS
82S137A/BVA	4K PROM (1024 × 4) TS 55NS
82S137A/BYA	4K PROM (1024 × 4) TS 55NS
82S141/BJA	4K PROM (512 × 8) TS 90NS
82S141/BKA	4K PROM (512 × 8) TS 90NS
82S141/B3A	4K PROM (512 × 8) TS (90NS)
82S147/BRA	4K PROM (512 × 8) TS 75NS
82S147A/BRA	4K PROM (512 × 8) TS 55NS
82S147B/BRA	4K PROM (512 × 8) TS 45NS
82S153A/BRA	FPLA (18 × 42 × 10) 45NS
82S153A/BSA	LAST TIME BUY
82S153A/B2A	FPLA (18 × 42 × 10) 45NS
82S16/BEA	256-BIT RAM (256 × 1)
82S16/BFA	256-BIT RAM (256 × 1)
82S181/BJA	8K PROM (1024 × 8) TS 90NS
82S181/B3A	8K PROM (1024 × 8) TS 90NS
82S181A/BJA	8K PROM (1024 × 8) TS 55NS
82S181A/B3A	8K PROM (1024 × 8) TS 55NS
82S185/BVA	8K PROM (2048 × 4) TS 115NS
82S185A/BVA	8K PROM (2048 × 4) TS 55NS
82S191/BJA	16K PROM (2048 × 8) TS 100NS
82S191/BKA	16K PROM (2048 × 8) TS 100NS
82S191/BLA	16K PROM 2K × 8
82S191/B3A	16K PROM (2048 × 8) TS 100NS
82S191A/BJA	16K PROM (2048 × 8) TS 55NS
82S191A/BKA	16K PROM (2048 × 8) TS 55NS
82S191A/BLA	16K PROM (2048 × 8) TS 55NS
82S191A/B3A	16K PROM (2048 × 8) TS 55NS
82S212/BWA	2304 BIT RAM 256 × 9
82S212/BWA-40	ORDER 82S212/BWA
82S23/BEA	256 BIT PROM (32 × 8)
82S23/BFA	REV C COMPLIANT 32 × 8 OC
82S23A/BEA	256 BIT PROM (32 × 8) OC 35NS
82S23B/BEA	256 BIT PROM (32 × 8) OC 30NS
82S23B/BFA	256 BIT PROM (32 × 8) OC 30NS
8200801JA	32K PROM (95 NS)
82008013A	32K PROM (95NS)
8200802JA	82HS321A/BJA (55 NS)
8200802KA	82HS321A/BKA (55 NS)
82008023A	82HS321A/B3A (55 NS)
8200804JA	82HS321/BJA (70NS)
8200804KA	82HS321/BKA (70NS)
82008043A	82HS321/B3A (70NS)
8200901JA	82HS641/BJA (100 NS)
8200902JA	82HS641A/BJA (55NS)
82009023A	82HS641A/B3A (55NS)
8200903JA	82HS641B/BJA
82009033A	82HS641B/B3A
8202102YA	68000-8/BXA 8 MHZ
8202103YA	68000-10/BXA 10 MHZ
8202103ZA	68000-10/BUA 10 MHZ
8301701JA	54LS154/BJA
8418502CA	592/BCA
8506401QA	80C31BH/BQA
8506401XA	80C31BH/BUA
8506401YA	80C31BH/BYA
8506402QA	80C51BH/BQA
8506402XA	80C51BH/BUA
8506403QA	80C31BH-16/BQA
8506403XA	80C31BH-16/BUA
8506403YA	80C31BH-16/BYA
8510201YA	27C64A/BXA-25 (250 NS)
8510201ZA	27C64A/BUA-25 (250 NS)
8510202YA	27C64A/BXA-35 (350NS)
8510202ZA	27C64A/BUA-35 (350 NS)
8510203YA	27C64A/BXA-20 (200 NS)
8510203ZA	27C64A/BUA-20 (200 NS)
8550201UA	8X305/BUA
8550201XA	8X305/BXA
8550201YA	8X305/BYA
8550202UA	8X305/BUA-10
8550202XA	8X305/BXA-10
8550202YA	8X305/BYA-10
8551101RA	54F245/BRA
8551101SA	54F245/BSA
85511012A	54F245/B2A
8602301EA	82S16/BEA
87C51-16/BQA	8-BIT MCU 16MHZ EPROM
87C51-16/BQA OT	8-BIT MCU 16MHZ EPROM OTP
87C51-16/BUA	8-BIT MCU 16MHZ EPROM
87C51-16/BUA OT	8-BIT MCU 16MHZ EPROM OTP
87C51/BQA	8-BIT MCU 12MHZ 4K EPROM
87C51/BQA OT	8-BIT MCU EPROM OTP 12MHZ
87C51/BUA	8-BIT MCU 12MHZ EPROM
87C51/BUA OT	8-BIT MCU EPROM OTP 12MHZ
87C51/BYA OT	8-BIT MCU EPROM OTP 12MHZ
87C52-16/BQA	8-BIT MCU 16MHZ 8K EPROM 256 RAM
87C52/BQA	8-BIT MCU 12MHZ 8K EPRM 256RAM
87C654/BQA	8-BIT MCU W/16K EPROM
87C751/BLA	8-BIT MCU DIP 2K EPROM
87C751/BLA OT	8-BIT MCU 2K OT EPROM
87C752-16/BXA	MCU W/ATOD EPROM 16MHZ
87C752-16/BXA OT	MCU W/ATOD OTP 16MHZ
87C752/BXA	8-BIT MCU W/ATOD EPROM
87C752/BXA OT	8-BIT MCU W/ATOD OTP

Competitive Cross Reference Guide

Index

Competitive Cross Reference Guide

PAL-TYPE PLDs

Numeric	AMD	Texas Instruments	Signetics
20L8	PAL20L8-10PC	TIBPAL20L8-10CN	PLUS20L8DN
20L8	PAL20L8-10JC	TIBPAL20L8-10CFN	PLUS20L8DA
20L8	PAL20L8-7PC	TIBPAL20L8-7CN	PLUS20L8-7N
20L8	PAL20L8-7JC	TIBPAL0L8-7CFN	PLUS20L8-7A
20R8	PAL20R8-10PC	TIBPAL20R8-10CN	PLUS20R8DN
20R8	PAL20R8-10JC	TIBPAL20R8-10CFN	PLUS20R8DA
20R8	PAL20R8-7PC	TIBPAL20R8-7CN	PLUS20R8-7N
2048	PAL20R8-7JC	TIBPAL20R8-7CFN	PLUS20R8-7A
20R6	PAL20R6-10PC	TIBPAL20R6-10CN	PLUS20R6DN
20R6	PAL20R6-10JC	TIBPAL20R6-10CFN	PLUS20R6DA
20R6	PAL20R6-7PC	TIBPAL20R6-7CN	PLUS20R6-7N
20R6	PAL20R6-7JC	TIBPAL20R6-7CFN	PLUS20R6-7A
20R4	PAL20R4-10PC	TIBPAL20R4-10CN	PLUS20R4DN
20R4	PAL20R4-10JC	TIBPAL20R4-10CFN	PLUS20R4DA
20R4	PAL20R4-7PC	TIBPAL20R4-7CN	PLUS20R4-7N
20R4	PAL20R4-7JC	TIBPAL20R4-7CFN	PLUS20R4-7A
16L8	PAL16L8DCN	TIBPAL16L8-10CN	PLUS16L8DN
16L8	PAL16L8DCNL	TIBPAL16L8-10CFN	PLUS16L8DA
16L8	PAL16L8-7PC	TIBPAL16L8-7CN	PLUS16L8-7N
16L8	PAL16L8-7JC	TIBPAL16L8-7CFN	PLUS16L8-7A
16R8	PAL16R8DCN	TIBPAL16R8-10CN	PLUS16R8DN
16R8	PAL16R8DCNL	TIBPAL16R8-10CFN	PLUS16R8DA
16R8	PAL16R8-7PC	TIBPAL16R8-7CN	PLUS16R8-7N
16R8	PAL16R8-7JC	TIBPAL16R8-7CFN	PLUS16R8-7A
16R6	PAL16R6DCN	TIBPAL16R6-10CN	PLUS16R6DN
16R6	PAL16R6DCNL	TIBPAL16R6-10CFN	PLUS16R6DA
16R6	PAL16R6-7PC	TIBPAL16R6-7CN	PLUS16R6-7N
16R6	PAL16R6-7JC	TIBPAL16R6-7CFN	PLUS16R6-7A
16R4	PAL16R4DCN	TIBPAL16R4-10CN	PLUS16R4DN
16R4	PAL16R4DCNL	TIBPAL16R4-10CFN	PLUS16R4DA
16R4	PAL16R4-PC	TIBPAL16R4-7CN	PLUS16R4-7N
16R4	PAL16R4-JC	TIBPAL16R4-7CFN	PLUS16R4-7A
16N8	–	TIBPAD16N8-7C TIBPAD16N8-7CFN	PHD16N8-5N PHD16N8-5A

UNIVERSAL PAL-TYPE PLDs

Numeric	AMD CMOS	AMD BIPOLAR	CYPRESS	LATTICE	ICT	TI	SIGNETICS
22V10-10		PAL22V10-10PC	PAL22V10C-10PC	GAL22V10B-10P	PEEL22CV10A-10P		PL22V10-10N
22V10-10		PAL22V10-10JC	PAL22V10C-10JC	GAL22V10B-10J	PEEL22CV10A-10J		PL22V10-10A
22V10-12			PAL22V10C-12PC		PEEL22CV10A-12P		PL22V10-12N
22V10-12			PAL22V10C-12JC		PEEL22CV10A-12J		PL22V10-12A
22V10-15	PALCE22V10H-15PC	PAL22V10-15PC	PALC22V10B-15PC	GAL22V10B-15P GAL22V10-15P	PEEL22CV10A-15P	TIBPAL22V10-15CNT	PL22V10-15N
22V10-15	PALCE22V10H-15JC	PAL22V10-15JC	PALC22V10B-15JC	GAL22V10B-15J GAL22V10-15J	PEEL22CV10A-15J	TIBPAL22V10-15CFN	PL22V10-15A

PALs/PLDs Packaging	AMD	Texas Instruments	Signetics
DIP Molded (DIL)	P	N	N
DIP Molded (300mil) (DIL)	N3	N3	N3
Plastic Leaded Chip Carrier (PLCC)	J	F	A
Hermetic CERDIP (DIL)	D	–	F

Competitive Cross Reference Guide

EPROMs

Numeric	Access Time	Org.	National	AMD	Intel	Texas Instruments	NEC	Signetics
27C210	200 ns	64K × 16	–	AM27C1024-200DC	D27210-200V10	TMS27C210-200JL	μPD27C1024D-20	27C210-20FA
			–	–	–	–	μPD27C1024C-20	27C210-20N
			–	–	–	–	μPD27C1024K-20	27C210-20A
	150 ns	64K × 16	–	AM27C1024-155DC	D27210-150V10	–	μPD27C1024D-15	27C210-15FA
			–			–	μPD27C1024C-15	27C210-15N
			–			–	μPD27C1024K-15	27C210-15A
27C240	200ns	256K × 8	–	AM27C4096-200DC	D27C240-200V10	–	–	27C240-20FA
			–	–	–	–	–	27C240-20A
	150ns	256K × 8	–	AM27C096-150DC	D27C240-150V10	–	–	27C240-15FA
			–	–	–	–	–	27C240-15A
27C256	200 ns	32K × 8	NM27C256Q200	AM27C256-200DC	27C256-200	TMS27C256	μPD27C256D-20	27C256-20FA
			–	–	N27C256-200	TMS27PC256-2NL	μPD27C256C-20	27C256-20N
			–	–	P27C256-200	–	μPD27C256K-20	27C256-20A
	170 ns	32K × 8	–	AM27C256-170DC	27C256-1	–	–	27C256-17FA
			–	–	N27C256-1	TMS27PC256-1NL	–	27C256-17N
			–	–	P27C256-1	–	–	27C256-20A
	150 ns	32K × 8	NM27C256Q150	AM27C256-150DC	27C256-150	–	μPD27C256D-15	27C256-15FA
			–	–	N27C256-150	TMS27PC256-150NL	μPD27C256C-15	27C256-15N
			–	–	P27C256-150	–	μPD27C256K-15	27C256-15A
	120 ns	32K × 8	–	AM27C256-120DC	27C256-120V05	TMS27C256-120JL	–	27C256-12FA
			–	–	N27C256-120V05	TMS27PC256-120NL	–	27C256-12N
			–	–	P27C256-120V05	TMS27PC256-120FN	–	27C256-12A
27C512	200 ns	64K × 8	NM27C512Q200	AM27C512-200DC	27C512	–	μPD27C512D-20	27C512-20FA
			NM27C512N200	–	N27C512	TMS27PC512-2NL	μPD27C512C-20	27C512-20N
			NM27C512V200	–	P27C512		μPD27C512K-20	27C512-20A
	170 ns	64K × 8	NM27C512Q170	AM27C512-170DC	27C512	–	–	27C512-17FA
	150 ns	64K × 8	NM27C512Q150	AM27C512-150DC	27C512	–	μPD27C512D-15	27C512-15FA
			NM27C512N150	–	N27C512	TMS27PC512-2NL	μPD27C512C-15	27C512-15N
			NM27C512V150	–	P27C512		μPD27C512K-20	27C512-15A
	120 ns	64K × 8	–	AM27C512-120DC	–	–	–	27C512-12FA
								27C512-12N
								27C512-12A
27C64	200 ns	8K × 8	NM27C64Q200DC	AM27C64-200DC	Q27C64-20	TMS27C64-20JL	–	27C64A-20FA
			NM27C64N200PC	AM27C64-200PC	N27C64-20	TMS27PC64-2NL	–	27C64A-20N
			–	–	P27C64-20	–	–	27C64A-20A
	150 ns	8K × 8	NM27C64Q150DC	AM27C64-150DC	27C64-15	TMS27C64-15JL	–	27C64A-15FA
			NM27C64N150PC	–	N27C64-15	TMS27PC64-1NL	–	27C64A-15N
			–	–	P27C64-15	–	–	27C64A-15A
	120 ns	8K × 8	–	AM27C64-120DC	–	–	–	27C64A-12FA
			–	–	–	–	–	27C64A-12N
			–	–	–	–	–	27C64A-12A
Industrial Temperature Range								
27C256	200 ns	32K × 8	NM27C256QE200	AM27C256-200DI	TD27C256-2	TMS27C256-2JE	–	27C256I-20FA
			NM27C256NE200	–	–	–	–	27C256I-20N
			NM27C256VE200	AM27C256-200LI	TN27C256-2	–	–	27C256I-20A
	150 ns	32K × 8	NM27C256QE150	AM27C256-150DI	–	–	–	27C256I-15FA
			NM27C256NE150	–	–	–	–	27C256I-15N
			NM27C256VE150	AM27C256-150LI	–	–	–	27C256I-15A
27C512	200 ns	64K × 8	NM27C512AQE200	AM27C512-200DI	–	TMS27C512-2JE	–	27C512I-20FA
			NM27C512ANE200	–	–	–	–	27C512I-20N
			NM27C512AVE200	AM27C512-200LI	–	–	–	27C512I-20A
	150 ns	64K × 8	NM27C512AQE150	AM27C512-15DI	–	–	–	27C512I-15FA
			NM27C512ANE150	–	–	–	–	27C512I-15N
			NM27C512AVE150	AM27C512-15LI	–	–	–	27C512I-20A

Competitive Cross Reference Guide

EPROMs (Continued)

Numeric	Access Time	Org.	National	AMD	Intel	Texas Instruments	NEC	Signetics
27C64	200 ns	8K × 8	NM27C64QE200	AM27C64-200DI	TN27C64-2	TMS27C64-2JE	–	27C64A-20FA
			–	–	–	–	–	27C64A-20N
			–	AM27C64-200LI	–	–	–	27C64A-20A
	150ns	8K × 8	NM27C64QE150	AM27C64A-150DI	–	TMS27C64-1JE	–	27C64A-15FA
			–	–	–	–	–	27C64A-15N
			–	AM27C64A-150LI	–	–	–	27C64A-15A

EPROMs Packaging	National	AMD	Intel	Texas Instruments	NEC	Signetics
Hermetic CERDIP (Quartz Window)	Q	DC	D	JL	D	FA
Plastic Leaded Chip Carrier (PLCC)	V	PC	P	FN	K	A
DIP Molded (OTP)	N	L	N	NL	C	N

Bipolar PROMs

Size	Desc-	Pins	AMD		MMI		Fujitsu		National		Signetics	
(Bits)	ription	Pkg.	P/N	TAA	P/N	TAA	P/N	TAA	P/N	TAA	P/N	TAA
256	32×8(OC)	16	27S18	40	63S080	25	7111E	35	74S188	35	N82S23	50
		300mil		25	–	–	7111H	25	74S188	25	N82S23A	25
256	32×8(TS)	16	27S19	40	63S081	25	7112E	35	74S288	35	N82S123	50
		300mil	27S19A	25	63S081A	15	7112H	25	74S288A	25	N82S123A	25
			27S19SA	15	PLE5P8AC	15	7112Y	20	87X288B	15	**N82US123A**	10
1K	256×4(OC)	16	27S20	45	63S140	45	7113	30	74S387	50	N82S126	50
		300mil	27S20A	30	–	–	–	–	74S387A	30	N82S126A	30
1K	256×4(TS)	16	27S21	45	63S141	45	7114	30	74S287	50	N82S129	50
		300mil	27S21A	30	63S141A	30	–	–	74S287A	30	N82S129A	27
2K	256×8(TS)	20	–	–	63S281	45	7118E	45	74LS471	60	N82S135	45
		300mil	–	–	63S281A	28	7118H	35	–	–	–	–
2K	512×4(TS)	16	27S12	50	53S240	45	7115E	45	74S570	55	N82S130	50
		300mil	27S12A	30	–	–	7115H	35	74S570A	45	N82S130A	33
2K	512×4(TS)	16	27S13	50	63S241	45	7116E	45	74S571	55	N82S131	50
		300mil	27S13A	30	63S241A	35	7116H	35	74S571A	45	N82S131A	30
		–	–	–	–	–	7116Y	30	74S571B	35	–	–
4K	512×8(TS)	20	27S29	55	63S481	45	7124E	45	74S472	60	N82S147A	45
		300mil	27S29A	35	63S481A	30	7124H	35	74S472A	45	N82S147B	25
			–	–	–	–	–	–	74S472B	35	–	–
4K	512×8(TS)	24	27S31	55	63S485	45	–	–	74S474	65	N82S141A	45
		600mil	27S31A	35	–	–	–	–	74S474A	45	N82S141B	35
									74S474B	35		
4K	1K×4(TS)	18	27S33	55	63S441	45	7122E	45	74S573	60	82S137	60
		300mil	27S33A	35	63S441A	35	7122H	35	74S573A	45	82S137A	45
			–	–	–	–	7122Y	30	74S573B	35	82S137B	35
8K	1K×8(TS)	24	27S181	60	63S881	45	7132E	55	87S181	55	82S181	70
		600mil	27S181A	50	63S881A	30	7132H	45	87S181A	45	82S181A	55
			–	–	–	–	7132Y	35	–	–	82S181C	30
8K	1K×8(TS)	24	27S281	60	63S881NS	45	7132E-SK	55	87S281	55	82S181N3	70
		300mil	27S281A	35	63S881ANS	30	7132H-SK	45	87S281A	45	82S181AN3	55
			–	–	–	–	7132Y-SK	35	–	–	82S181C-N3	30
8K	1K×8(TS)	24	27S35/37	40/25	63RS881	35/20	7232RA/RS-25	35/25	87R183/181	40/30	**82HS187**	20
		300mil	27S35/37A	35/20	63RS881A	30/15	7232RA/RS-20	30/20	–	–	**82HS187A**	15
8K	1K×8(TS)	24	AM27S181	–	63S881	–	M87132	–	93Z451	35/45	N82S181	–
		600mil										

Competitive Cross Reference Guide

Bipolar PROMs (Continued)

Size	Desc-	Pins	AMD		MMI		Fujitsu		National		Signetics	
(Bits)	ription	Pkg.	P/N	TAA	P/N	TAA	P/N	TAA	P/N	TAA	P/N	TAA
8K	2K×4(TS)	18	27S185	50	63S841	50	7128E	55	87S185	55	82S185	100
		300mil	27S185A	35	63S841A	35	7128H	45	87S185A	45	82S185A	50
			–	–	–	–	7128Y	35	87S185B	35	87S185B	45
16K	2K×8(TS)	24	AM27S191	50	63S1681	–	MB7138H	–	93Z511	45	**N82S191A**	55
		600mil	AM27S191A	35	–	–	–	–	–	–	**N82S191C**	35
16K	4K×4(TS)	24	27S41	50	63S1641	50	7152E	55	87S195A	45	82HS195	45
		300mil	27S41A	35	63S1641A	35	7152H	45	87S195B	35	82HS195A	35
			–	–	–	–	7152Y	35	–	–	82HS195B	25
32K	4K×8(TS)	24	27S43A	55	63S3281	45	7142E	65	87S321	55	–	–
		600mil	27S43A	40	63S3281A	35	7142H	55	–	–	82HS321	45
			–	–	–	–	–	–	–	–	82HS321A	35
			–	–	–	–	–	–	–	–	82HS321B	30
64K	8K×8(TS)	24	AM27S49	–	–	–	MB7144E-W	–	93Z665	35/	82HS641	–
		600mil								40/45		

NOTE: Products bolded will be discontinued. Last order date is 9/27/91; last shipment date is 12/31/91.

Bipolar PROMs Packaging	AMD	MMI	Fujitsu	National	Signetics
DIP Molded	P	N	P	N	N
Small Outline (SO)	–	–	PJ*	M	D
Hermetic CERDIP (DIL)	D	D	C/Z	–	F
Plastic Leaded Chip Carrier (PLCC)	–	–	–	V	A

* Japanese Standard Small Outline SOJ

EEPROMs

Numeric	Description	General Instruments/ Micro Chip Technology	SGS/Thompson	Xicor	Signetics
8581	128 × 8-Bit EEPROM	PCD8572 PCD8572I	–	–	PCF8581
8582	256 × 8-Bit EEPROM	PCD8582 PCD8582I	ST24C02	X24C021	PCF8582

EEPROMs Packaging	General Instruments/ Micro Chip Technology	SGS/Thompson	Xicor	Signetics
Small Outline (SO)	SO	S	S	TD (SO14)
DIP Molded (DIL)	P	P	P	PN (DIL8)

Standard TTL Logic

Prefix	Texas Instruments	National	Mitsubishi	Motorola	Harris	Toshiba	Signetics
74ABT	SN	–	–	–	–	–	No Prefix
74ALS	SN	DM	M	–	–	–	N
74AC/ACT	SN	–	–	–	–	–	No Prefix
74F	SN	DM	M	MC	–	–	N
74HC/HCT	SN	MM	M	MC	CD	TC	No Prefix
74LS	SN	DM	–	SN	–	–	N
74S	SN	DM	–	–	–	–	N
74	SN	DM	–	–	–	TA/TC	N
4000	–	CD/LH	–	MC	CD	TC	HEF

Competitive Cross Reference Guide

Standard TTL Logic Packaging	Texas Instruments	National	Mitsubishi	Motorola	Harris	Toshiba	Signetics
DIP Molded (DIL)	N	N	P	P	3	P	N
Small Outline (SO)	DW	M	–	D	M	J*	D
Hermetic CERDIP (DIL)	J	D	K	U	I	D	F
Plastic Leaded Chip Carrier (PLCC)	FN	–	–	FN	4P	T	A

* Japanese Standard Small Outline SOJ

FAST (BUS Interface Registers, Buffers, Latches and Transceivers)

AMD	National	Motorola	Mitsubishi	Signetics
AM29821	DM74F821	–	M74F821	N74F821
AM29823	DM74F823	–	M74F823	N74F823
AM29824	–	–	–	N74F824
AM29825	DM74F825	–	M74F825	N74F825
AM29827	DM74F827	MC74F827	–	N74F827
AM29828	DM74F828	MC74F828	–	N74F828
AM29841	DM74F841	–	M74F841	N74F841
AM29843	DM74F843	–	M74F843	N74F843
AM29845	DM74F845	–	M74F845	N74F845
AM29861	–	–	–	N74F861
AM29863	–	–	–	N74F863

Linear

Numeric	Description	Motorola	National	SGS/ Thompson	Texas Instruments	Others	Signetics
DAC-08	8-Bit D/A Converter	DAC-08	DAC-0800 DAC-0801 DAC-0802	–	–	– AMD DAC-08	DAC-08 NE5009 NE5007 NE5008
0803/ 0804	8-Bit A/D Converter	–	ADC0803 ADC0804	–	ADC0803 ADC0804	Intersil ADC0803 ADC0804	ADC0803 ADC0804
0820	8-Bit CMOS A/D Converter	–	ADC0820	–	–	Analog Devices AD7820	ADC0820
124	Quad Op Amp	LM124	LM124	–	LM124	RCA CA124	LM124
13600	High Performance Dual Transcon Amp	–	LM13600/A	–	–	Exar XR13600	NE5517
1408/ 1508	8-Bit D/A Converter	MC1408/ 1508	DAC0806 DAC0807 DAC0808	–	–	Harris HI5618	MC1408-6 MC1408-8 MC1508-8
145406	CMOS RS 232-D Triple Receiver	MC145406	–	–	–	–	MC145406
1458/ 1558	Dual Op Amp	MC1458 MC1558	LM1458 LM1558	MC1458	MC1458	Samsung MC1458	MC1458 MC1558
1488	Quad Line Driver	MC1488	DS1488	MC1488	SN75188 MC1488	Exar XR1488	MC1488
1489	Quad Line Receiver	MC1489/A	DS1489/A	MC1489	SN75189/A MC1489/A	Exar XR1489/A	MC1489
1496/1596	Balanced Modulator/ Demodulator	MC1496 MC1596	LM1496 LM1596	–	–	Silicon General SG1496	MC1496 MC1596
158	Dual Op Amp	LM158	LM158	LM158	LM158	Intersil CA158	SE532

Competitive Cross Reference Guide

Linear (Continued)

Numeric	Description	Motorola	National	SGS/ Thompson	Texas Instruments	Others	Signetics
198	Sample-and-Hold Amp	–	LF198	–	–	AMD LF1998	LF198 SE5537
211	Voltage Comparator	LM211	LM211	–	LM211	Silicon General SG211	LM211
219	Dual Comparator	–	LM219	TDE0119	–	–	LM219
224	Quad Op Amp	LM224	LM224	LM224	LM224	–	LM224 SA534
239	Quad Voltage Comparator	LM239	LM239	–	LM239	RCA CA239	LM239/A
258	Dual Op Amp	LM258	LM258	LM258	LM258	NEC µPC258	LM258 SA532
26LS30	RS-422/4S-423 Line Driver	–	DS3691	–	–	AMD AM26LS30	AM26LS30
26LS31	Quad Hi-Speed Line Driver	AM26LS31	DS26LS31	–	AM26LS31	AMD AM26LS31	AM26LS31
26LS32	Quad Hi-Speed Receiver	AM26LS32	DS26LS32	–	AM26L32	AMD AM26LS32	AM26LS32
26LS33	Quad Hi-Speed Receiver	–	–	–	–	AMD AMD26LS33	AM26LS33
2901	Quad Voltage Comparator	LM2901	LM2901	–	LM2901	–	LM2901
2902	Quad Op Amp	LM2902	LM2902	–	LM2902	–	LM2902 SA534
2903	Dual Voltage Comparator	LM2903	LM2903	–	LM2903	–	LM2903
2904	Dual Op Amp	LM2904	LM2904	–	LM2904	–	LM2904
293	Dual Comparator	LM293/A	LM293/A	–	LM293/A	–	LM293
311	Voltage Comparator	LM311	LM311	–	LM311	–	LM311
319	High-Speed Dual Comparator	–	LM319	LM319	–	NEC µPC319	LM319
324	Quad Op Amp	LM324/A	LM324/A	LM324	LM324	Samsung LM324	LM324/A
3302	Quad Voltage Comparator	MC3302	–	–	–	–	MC3302
3361	Low Power FM IF	MC3361	–	–	–	Samsung MC3361	MC3361
339	Quad Voltage Comparator	LM339/A	LM339/A	LM339	LM339	RCA CA339	LM339
3524	SMPS Control Circuit	–	LM3524	SG3524	SG3524	Unitrode UC3524	SG3524
358	Dual Op Amp	LM358/A	LM358/A	LM358	LM358/A	RCA CA358/A	LM358/A NE532
361	See 529						
3842	SMPS IC	UC3842AN	–	–	–	Unitrode UC3842	UC3842

Competitive Cross Reference Guide

Linear (Continued)

Numeric	Description	Motorola	National	SGS/ Thompson	Texas Instruments	Others	Signetics
393	Dual Comparator	LM393/A	LM393/A	LM393	LM393/A	–	LM393/A
398	Sample-and-Hold Amp	–	LF398	–	–	AMD LF398	LF398 NE5537
4558	Dual General Purpose Op Amp	MC4558	–	–	–	Exar XR4558	NE4558
5007	See DAC-08C						
5008	See DAC-08E						
5009	See DAC-08H						
5018	8-Bit Converter Voltage Out	–	–	–	–	Datel DACμP8B	NE5018
5019	8-Bit D/A Converter Voltage Out	–	–	–	–	Datel DACμP8B	NE5019
502	Ethernet Encoder/ Decoder	–	–	–	–	Fujitsu MB502A	NE502A
5020	10-Bit D/A Converter Voltage Out	–	–	–	–	Datel DACμP10B	NE5020
5170	Octal Line Driver	–	–	–	–	Unitrode UC5170	NE5170
5180	Octal Line Receiver	–	–	–	–	Unitrode UC5180	N35180
529	High Speed Comparator	–	LM161 LM361	–	–	–	NE529
532	See 358						
5517	See 13600						
5532	Dual Low Noise Op Amp	–	–	–	NE5532/A TL072	Exar XR5532/A	NE5532
5533	Dual Low Noise Op Amp	–	–	–	NE5533/A	Exar XR5533	NE5533
5534	Low Noise Op Amp	–	–	–	NE5534/A	Exar XR5534	NE5534
5537	See 398						
5539	Fast Op Amp	MC5539	LM5539	–	–	Analog Devices AD5539	NE5539
555	Timer	NE555 MC1455	LM555	NE555	NE555	Exar XR555	NE555
556	Dual Timer	NE556	LM556	NE556	NE556	Samsung NE556	NE556
5560	SMPS Control Circuit	–	–	–	–	Goldstar GL5560	NE5560
5561	SMPS Control Circuit	–	–	–	–	Goldstar GL5561	NE5561
5568	SMPS Control Circuit	–	–	–	–	Sprague ULN8168	NE5568
558	Quad Timer	–	–	–	–	Samsung NE558 Exar XR558	NE558
566	Function Generator	–	LM566	–	–	–	NE566

Competitive Cross Reference Guide

Linear (Continued)

Numeric	Description	Motorola	National	SGS/ Thompson	Texas Instruments	Others	Signetics
567	Time Decoder Phase-Locked Loop	–	LM567	–	–	Exar XR567	NE567
571	COMPANDOR	–	–	–	–	NEC μPC571	NE571
592	Video Amplifier	NE592	LM592	–	NE592 TL592	Intersil NE592	NE592
594	Vacuum Fluorescent, Display Driver	–	–	–	–	Exar XR6118 Sprague ULN618	NE594
6012	12-Bit D/A Coverter	–	NS8464	–	–	AMD AM6012	AM6012
6081	See 5018						
723	Precision Voltage Regulator	MC1723	LM723	LM723	μA723	RCA CA723	μA723
733	Differential Video Amp	MC1733	LM733	–	μA733	–	μA733
741	General Purpose Op Amp	MC1741	LM741	LM741	μA741	Samsung LM741	μA741/C
747	Dual Op Amp	MC1747	LM747	–	μA747	RCA CA747	μA747/C
75188	See 1488						
75189	See 1489						
7555	CMOS Timer	–	LMC555	–	TLC555	Intersil ICM7555	ICM7555
7820	See 0820						
8160	See 5560						
8161	See 5561						
8168	See 5568						
8392	Ethernet Coaxial Transceiver	–	DP8392A	–	–	–	NE8392AN
8464	See 6012						
8564	See 564						
86950	Ethernet Controller	–	–	–	–	Fujitsu MB86950	NE86950

Linear Packaging	Motorola	National	SGS	TI	AMD	EXAR	RCA	Signetics
DIP Molded (DIL)	P	N	N	N	P	P	E	N
Hermetic CERDIP (DIL)	U	J	J	J	D	N	D	F
Small Outline (SO)	D	M	M	D	–	–	M	D
Plastic Leaded Chip Carrier (PLCC)	FN	V	–	FN	L	–	Q	A
TO-5	G/H	H-05	–	L	–	–	S	H

Competitive Cross Reference Guide

Microcontrollers

Numeric	Intel	AMD	Siemens	Signetics
8039	8039AL	–	–	SCN8039H
8049	8049AH	–	–	SCN8049H
8040	8040AHL	–	–	SCN8040H
8050	8050AH	–	–	SCN8050H
8031	8031AH	–	SAB8031A	SCN8031H
8051	8051AH	–	SAB8051A	SCN8051H
8032	8032AH	–	SAB8032A	SCN8032H
8052	8052AH	8052	SAB8052A	SCN8052H
80C31	80C31BH	80C31BH	SAB80C31	SC80C31B
80C32	80C32FA	–	–	P80C32
80C51	80C51BH	80C51BH	SAB80C51	SC80C51B
80C52	83C51FA	–	–	P80C52
87C51	87C51	87C51	–	SC87C51
87C52	87C51FA	87C52T2	–	P87C52

Microcontrollers Packaging	Intel	AMD	Siemens	Signetics
DIP Molded (DIL)	P	P	D	N
Hermetic CERDIP (Quartz Window)	–	D	–	F
Ceramic Leaded Chip Carrier (CLCC)	R	–	–	L
Plastic Leaded Chip Carrier (PLCC)	N	L	–	A

CRT

Numeric	Motorola	Signetics
2672	MC2672B3P MC2672B4P	SCN2672C4 SCN2672C4
2674	MC2674B3P MC2674B4P	SCN2674BC4 SCN2674BC4
68000	MC68000P8 MC68000P10	SCN68000C8N64 SCN68000CAN64

CRT Packaging	Motorola	Signetics
DIP Molded (DIL)	P	N
Plastic Leaded Chip Carrier (PLCC)	FN	A

Data Communications

Numeric	Exar	Motorola	Standard Microsystems Corporation	Signetics
2651	–	–	COM2651	SCN2651
2652/68652	–	MC68652	–	SCN68652
2661/ 68661	–	MC2661 MC68661	COM2661	SCN2661 SCN68661
2681/68681	XR88C681 XR68C681	MC2681 MC68681	–	SCN2681 SCN68681
2692/ 68692	XR88C681 XR68C681	–	–	SCC2692 SCC68692
26/68C94	XR88C684	–	–	SC26/68C94

Data Communications Packaging	Exar	Motorola	Standard Microsystems Corporation	Signetics
DIP Molded (DIL)	Q	P	P	N
Plastic Leaded Chip Carrier (PLCC)	–	FN	LJ	A
Hermetic CERDIP (DIL)	N	U	CD	F

Sales Office Listing

7

Index

Sales Office Listing

SIGNETICS HEADQUARTERS
811 East Arques Avenue
P.O. Box 3409
Sunnyvale, CA 94088-3409

ALABAMA
Huntsville
Phone: (205) 464-0111

CALIFORNIA
Calabasas
Phone: (818) 880-6304

Irvine
Phone: (714) 833-8980
(714) 752-2780

San Diego
Phone: (619) 560-0242

Sunnyvale
Phone: (408) 991-3737

COLORADO
Englewood
Phone: (303) 792-9011

GEORGIA
Atlanta
Phone: (404) 594-1392

ILLINOIS
Itasca
Phone: (708) 250-0050

INDIANA
Kokomo
Phone: (317) 459-5355

MASSACHUSETTS
Westford
Phone: (508) 692-6211

MICHIGAN
Farmington Hills
Phone: (313) 553-6070

NEW JERSEY
Toms River
Phone: (908) 505-1200

NEW YORK
Wappingers Falls
Phone: (914) 297-4074

OHIO
Columbus
Phone: (614) 888-7143

OREGON
Beaverton
Phone: (503) 627-0110

PENNSYLVANIA
Plymouth Meeting
Phone: (215) 825-4404

TENNESSEE
Greenevillo
Phone: (615) 639-0251

TEXAS
Austin
Phone: (512) 339-9945

Richardson
Phone: (214) 644-1610

CANADA
SIGNETICS CANADA, LTD.
Etobicoke, Ontario
Phone: (416) 626-6676

Nepean, Ontario
Phone: (613) 225-5467

REPRESENTATIVES

ALABAMA
Huntsville
Elcom, Inc.
Phone: (205) 830-4001

ARIZONA
Scottsdale
Thom Luke Sales, Inc.
Phone: (602) 941-1901

CALIFORNIA
Orangevale
Webster Associates
Phone: (916) 989-0843

COLORADO
Englewood
Thom Luke Sales, Inc.
Phone: (303) 649-9717

CONNECTICUT
Wallingford
JEBCO
Phone: (203) 265-1318

FLORIDA
Oviedo
Conley and Assoc., Inc.
Phone: (407) 365-3283

GEORGIA
Norcross
Elcom, Inc.
Phone: (404) 447-8200

ILLINOIS
Hoffman Estates
Micro-Tex, Inc.
Phone: (708) 765-3000

INDIANA
Indianapolis
Mohrfield Marketing, Inc.
Phone: (317) 546-6969

IOWA
Cedar Rapids
J.R. Sales
Phone: (319) 393-2232

MARYLAND
Columbia
Third Wave Solutions, Inc.
Phone: (301) 290-5990

MASSACHUSETTS
Chelmsford
JEBCO
Phone: (508) 256-5800

MICHIGAN
Brighton
AP Associates
Phone: (313) 229–6550

MINNESOTA
Eden Prairie
High Technology Sales
Phone: (612) 944-7274

MISSOURI
Bridgeton
Centech, Inc.
Phone: (314) 291-4230

Raytown
Centech, Inc.
Phone: (816) 358-8100

NEW YORK
Ithaca
Bob Dean, Inc.
Phone: (607) 257-1111

Rockville Centre
S-J Associates
Phone: (516) 536-4242

Wappingers Falls
Bob Dean, Inc.
Phone: (914) 297-6406

NORTH CAROLINA
Matthews
ADI, Inc.
Phone: (704) 847-4323

Smithfield
ADI, Inc.
Phone: (919) 934-8136

OHIO
Aurora
InterActive Technical Sales, Inc.
Phone: (216) 562-2050

Dayton
InterActive Technical Sales, Inc.
Phone: (513) 436-2230

Dublin
InterActive Technical Sales, Inc.
Phone: (614) 792-5900

OREGON
Beaverton
Western Technical Sales
Phone: (503) 644-8860

PENNSYLVANIA
Hatboro
Delta Technical Sales, Inc.
Phone: (215) 957-0600

TEXAS
Austin
Synergistic Sales, Inc.
Phone: (512) 346-2122

Houston
Synergistic Sales, Inc.
Phone: (713) 937-1990

Richardson
Synergistic Sales, Inc.
Phone: (214) 644-3500

San Antonio
Synergistic Sales, Inc.
Phone: (512) 496-7931

UTAH
Salt Lake City
Electrodyne
Phone: (801) 264-8050

WASHINGTON
Bellevue
Western Technical Sales
Phone: (206) 641-3900

Spokane
Western Technical Sales
Phone: (509) 922-7600

WISCONSIN
Waukesha
Micro-Tex, Inc.
Phone: (414) 542-5352

CANADA
Calgary, Alberta
Tech-Trek, Ltd.
Phone: (403) 241-1719

Mississauga, Ontario
Tech-Trek, Ltd.
Phone: (416) 238-0366

Nepean, Ontario
Tech-Trek, Ltd.
Phone: (613) 225-5161

Richmond, B.C.
Tech-Trek, Ltd.
Phone: (604) 276-8735

Ville St. Laurent, Quebec
Tech-Trek, Ltd.
Phone: (514) 337-7540

PUERTO RICO
Santurce
Mectron Group
Phone: (809) 723-6165

DISTRIBUTORS
Contact one of our local distributors:
Almac/Arrow Electronics
Anthem Electronics
Arrow/Schweber Electronics
Falcon Electronics, Inc.
Gerber Electronics
Hamilton/Avnet Electronics
Marshall Industries
Wyle/EMG
Zentronics, Ltd.

Worldwide Sales, Service and Support

SIGNETICS HEADQUARTERS
A Subsidiary of North American Philips Corporation
811 East Arques Avenue
P.O. Box 3409
Sunnyvale, CA 94088-3409

ALABAMA
Huntsville
Phone: (205) 464-0111

CALIFORNIA
Calabasas
Phone: (818) 880-6304

Irvine
Phone: (714) 833-8980
(714) 752-2780

San Diego
Phone: (619) 560-0242

Sunnyvale
Phone: (408) 991-3737

COLORADO
Englewood
Phone: (303) 792-9011

GEORGIA
Atlanta
Phone: (404) 594-1392

ILLINOIS
Itasca
Phone: (708) 250-0050

INDIANA
Kokomo
Phone: (317) 459-5355

MASSACHUSETTS
Westford
Phone: (508) 692-6211

MICHIGAN
Farmington Hills
Phone: (313) 553-6070

NEW JERSEY
Toms River
Phone: (908) 505-1200

NEW YORK
Wappingers Falls
Phone: (914) 297-4074

OHIO
Columbus
Phone: (614) 888-7143

OREGON
Beaverton
Phone: (503) 627-0110

PENNSYLVANIA
Plymouth Meeting
Phone: (215) 825-4404

TENNESSEE
Greeneville
Phone: (615) 639-0251

TEXAS
Austin
Phone: (512) 339-9945

Richardson
Phone: (214) 644-1610

CANADA
SIGNETICS CANADA, LTD.
Etobicoke, Ontario
Phone: (416) 626-6676

Nepean, Ontario
Phone: (613) 225-5467

REPRESENTATIVES

ALABAMA
Huntsville
Elcom, Inc.
Phone: (205) 830-4001

ARIZONA
Scottsdale
Thom Luke Sales, Inc.
Phone: (602) 941-1901

CALIFORNIA
Orangevale
Webster Associates
Phone: (916) 989-0843

COLORADO
Englewood
Thom Luke Sales, Inc.
Phone: (303) 649-9717

CONNECTICUT
Wallingford
JEBCO
Phone: (203) 265-1318

FLORIDA
Oviedo
Corley and Assoc., Inc.
Phone: (407) 365-3283

GEORGIA
Norcross
Elcom, Inc.
Phone: (404) 447-8200

ILLINOIS
Hoffman Estates
Micro-Tex, Inc.
Phone: (708) 765-3000

INDIANA
Indianapolis
Mohfield Marketing, Inc.
Phone: (317) 546-6969

IOWA
Cedar Rapids
J.R. Sales
Phone: (319) 393-2232

MARYLAND
Columbia
Third Wave Solutions, Inc.
Phone: (301) 290-5990

MASSACHUSETTS
Chelmsford
JEBCO
Phone: (508) 256-5800

MICHIGAN
Brighton
AP Associates
Phone: (313) 229-6550

MINNESOTA
Eden Prairie
High Technology Sales
Phone: (612) 944-7274

MISSOURI
Bridgeton
Centech, Inc.
Phone: (314) 291-4230

Raytown
Centech, Inc.
Phone: (816) 358-8100

NEW YORK
Ithaca
Bob Dean, Inc.
Phone: (607) 257-1111

Rockville Centre
S-J Associates
Phone: (516) 536-4242

Wappingers Falls
Bob Dean, Inc.
Phone: (914) 297-6406

NORTH CAROLINA
Matthews
ADI, Inc.
Phone: (704) 847-4323

Smithfield
ADI, Inc.
Phone: (919) 934-8136

OHIO
Aurora
InterActive Technical Sales, Inc.
Phone: (216) 562-2050

Dayton
InterActive Technical Sales, Inc.
Phone: (513) 436-2230

Dublin
InterActive Technical Sales, Inc.
Phone: (614) 792-5900

OREGON
Beaverton
Western Technical Sales
Phone: (503) 644-8860

PENNSYLVANIA
Hatboro
Delta Technical Sales, Inc.
Phone: (215) 957-0600

TEXAS
Austin
Synergistic Sales, Inc.
Phone: (512) 346-2122

Houston
Synergistic Sales, Inc.
Phone: (713) 937-1990

Richardson
Synergistic Sales, Inc.
Phone: (214) 644-3500

San Antonio
Synergistic Sales, Inc.
Phone: (512) 496-7931

UTAH
Salt Lake City
Electrodyne
Phone: (801) 264-8050

WASHINGTON
Bellevue
Western Technical Sales
Phone: (206) 641-3900

Spokane
Western Technical Sales
Phone: (509) 922-7600

WISCONSIN
Waukesha
Micro-Tex, Inc.
Phone: (414) 542-5352

CANADA
Calgary, Alberta
Tech-Trek, Ltd.
Phone: (403) 241-1719

Mississauga, Ontario
Tech-Trek, Ltd.
Phone: (416) 238-0366

Nepean, Ontario
Tech-Trek, Ltd.
Phone: (613) 225-5161

Richmond, B.C.
Tech-Trek, Ltd.
Phone: (604) 276-8735

Ville St. Laurent, Quebec
Tech-Trek, Ltd.
Phone: (514) 337-7540

PUERTO RICO
Santurce
Mectron Group
Phone: (809) 723-6165

DISTRIBUTORS

Contact one of our local distributors:
Almac/Arrow Electronics
Anthem Electronics
Arrow/Schweber Electronics
Falcon Electronics, Inc.
Gerber Electronics
Hamilton/Avnet Electronics
Marshall Industries
Wyle/EMG
Zentronics, Ltd.

FOR SIGNETICS PRODUCTS WORLDWIDE:

ARGENTINA
Philips Argentina S.A.
Buenos Aires
Phone: (1) 541-4106

AUSTRALIA
Philips Electronic Components & Mat'l Ltd.
North Ryde
Phone: (2) 805-4455

AUSTRIA
Osterreichische Philips
Wien
Phone: (0222) 60-101-820

BELGIUM
N.V. Philips Prof. Systems
Brussels
Phone: (02) 525-61-11

BRAZIL
Philips Components
Sao Paulo
Phone: (011) 829-1166

CANADA
Philips Electronics, Ltd.
Scarborough, Ontario
Phone: (416) 292-5161

CHILE
Philips Chilena S.A.
Santiago
Phone: (02) 077-3816

COLUMBIA
Iprelenso, Ltda.
Bogota
Phone: (01) 2497624

DENMARK
Philips Components A/S
Copenhagen S
Phone: (01) 883333

FINLAND
Philips Components
Espoo
Phone: 358-0-502-6508

FRANCE
Philips Composants
Issy-les-Moulineaux
Cedex
Phone: (01) 40-93-80-00

GERMANY
Philips Components
Hamburg
Phone: (40) 3-296-1

GREECE
Philips S.A. Hellenique
Tavros
Phone: (01) 4894-339/
4894911

HONG KONG
Philips Hong Kong, Ltd.
Kwai Chung, Kowloon
Phone: (0) 424-5121

INDIA
Peico Electronics & Elect. Ltd.
Bombay
Phone: (022) 493-8541

INDONESIA
P.T. Philips-Ralin Electronics
Jakarta Selatan
Phone: (021) 515690

IRELAND
Philips Electronics Ltd.
Dublin
Phone: (01) 69-33-55

ITALY
Philips S.p.A.
Milano
Phone: (02) 67-52-1

JAPAN
Philips Japan Ltd.
Tokyo
Phone: (03) 740-5029

KOREA
Philips Industries, Ltd.
Seoul
Phone: (02) 794-5011

MALAYSIA
Philips Malaysia SDN BHD
Petaling Jaya
Phone: (03) 757-5511

MEXICO
Philips Components
Juarez, Chihuahua
Phone: (16) 18-67-01/02

Philips Components
Mexico City
Phone: 52-55-33-3858/59

NETHERLANDS
Philips Nederland
Eindhoven
Phone: (40) 783749

NEW ZEALAND
Philips New Zealand Ltd.
Auckland
Phone: (09) 894-160

NORWAY
Norsk A/S Philips
Oslo
Phone: (02) 74-10-10

PERU
Cadesa
San Isidro
Phone: (14) 707-080

PHILIPPINES
Philips Industrial Dev., Inc.
Makati-Rizal
Phone: 63-2-810-01-61

PORTUGAL
Philips Portuguesa SARL
Lisbon
Phone: (019) 68-31-21

SINGAPORE
Philips Singapore Pte., Ltd.
Singapore
Phone: (65) 350-2000

SOUTH AFRICA
SA Philips (PTY), Ltd.
Martindale
Phone: 27-11-470-5911

SPAIN
Philips Components
Barcelona
Phone: (03) 301-63-12

SWEDEN
Philips Components A.B.
Stockholm
Phone: (0) 782-10-00

SWITZERLAND
Philips Components A.G.
Zuerich
Phone: (01) 488-2211

TAIWAN
Philips Taiwan, Ltd.
Taipei
Phone: 886-2-500-5842

THAILAND
Philips Electrical Co. of Thailand Ltd.
Bangkok
Phone: (02) 233-6330-9

TURKEY
Turk Philips Ticaret A.S.
Istanbul
Phone: (01) 179-27-70

UNITED KINGDOM
Philips Components Ltd.
London
Phone: (01) 580-6633

URUGUAY
Philips Components
Montevideo
Phone: (91) 56-41/
42/43/44

VENEZUELA
Magnetica S.A.
Caracas
Phone: (02) 241-7509

ZIMBABWE
Philips Electrical (PVT) Ltd.
Harare
Phone: (4) 47211

9/27/91

98-1000-000-05

Signetics

Philips Semiconductors

PHILIPS

PHILIPS