Series 8000

The Altos 8000 Series is a complete line of multi-user 8 bit systems supporting up to 4 users and one printer. Designed for expanding organizations, the 8000 Series provides a complete business solution. These multi-purpose systems support a wide range of hardware options for future expansion, full communications, and a range of software applications and languages to meet every business need.

General Description

The Series 8000 consists of three microcomputer systems based on the Zilog Z80A microprocessor. All 8000 systems provide support for up to 4 users simultaneously. Storage capacities range from 10–40 megabytes with add on capabilities to give a total on line capacity of 80 megabytes. Each system in the 8000 series features:

- 8 bit Z80A microprocessor
- 208K Bytes of Random Access Memory
- Multi user system with 6 serial RS-232 ports
- Parallel interface capable of controlling one high speed line printer
- 8 Inch Winchester disk and floppy disk support
- Magnetic tape storage options for back up purposes

Features and Capabilities

Microprocessor

The central processing unit is a Z80A 8 bit microprocessor which operates at 4 Mhz. The system design is capable of addressing 208K bytes of memory in 64K blocks. Each system allows for partitioned memory in order to prevent contention among users with 48K being allotted for each user. Dedicating memory to each user keeps one job from interfering with another

Data Storage

All Series 8000 systems support one 8 inch diskette drive with a .5 megabytes capacity. Increased storage is supported thru 8 inch Winchester disks in 10, 20 or 40 megabyte options. Upgrade options are also available for any series machine either 10 or 40 megabyte capacities. The Series 8000 provides entry level storage of 10 megabytes with upward growth to a total on line capacity of 80 megabytes.

The 8000 Series systems also support a magnetic tape for optional back up on any system. The tape unit is a stand alone cartridge with storage capacity of 17 megabytes unformatted.

Communications

All 8000 series systems support asynchronous and synchronous protocols. This includes 3270/3276 IBM Clustered Terminal Controller/Emulator and 3780 IBM Bisynchronous Package.

Configuration

8000-10	208K Bytes RAM
	.5 megabytes Floppy
	10 megabytes Hard Disk
	6 Serial RS-232 Ports
	1 Parallel port
	MPM II Operating System
8000-12	208K Bytes RAM
	.5 megabytes Floppy
	21 megabytes Hard Disk
	6 Serial RS-232 Ports
	1 Parallel port
	MPM II Operating System
8000-14	208K Bytes RAM
	5 megabytes Diskette
	42 megabytes Hard Disk
	6 Serial RS-232 Ports
	1 Parallel port
	MPM II Operating system

Specifications

Microprocessor

Model	Z80A
Technology	NMOS
Data Word	8 bit
Instruction word size	8 bit
Clock Frequency	4 M Hz

RAM Memory

Capacity	208K Bytes
Cycle Time	450 NSec

I/O Control

Type of interrupt	vectored
Serial RS-232	6
Parallel ports	1

Floppy Storage

Number of Drives	1
Physical Size	8 inch
Unformatted capacity	5 MB
Density	Double
Sides	Single

Winchester Storage

Number of drives	1
Physical Size	8 inch

Unformatted capacity

8000-10	10 MB (9 MB Formatted)
8000-12	21 MB (16 MB Formatted)
8000-14	42 MB (33 MB Formatted)
Data Transfer	
Rate	4MB/sec

Average Access Time

8000-10	70 m/sec
8000-12	55 m/sec
8000-14	65 m/sec

Operating Systems

MPM II™
Oasis™

Languages

BI 280™	Microsoft Cobol™
CBasic™	R/M Cobol™
CBasic Compiler CB80™	CIS Cobol™
Microsoft Basic™	Pascal MT+™
Microsoft Basic Compiler™	Microsoft Fortran 80™

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Stock Number 301-A

Optional Mass Storage Addons

10 MB Winchester Disk for 8000-10
40 MB Winchester Disk for 8000-12 and 8000-14

17MB Magnetic tape unit for any Series 8000

Physical Characteristics

Width	19"
Height	7"
Length	22"
Weight	80 lbs

Communications

Asynchronous
3780 IBM BiSynchronous
3270/3276 IBM Clustered Terminal Emulator

Environmental and Safety Standards

Meets FCC docket 20780 Class A requirements
UL and CSA approved
Ambient Temperature range
  15 – 32°C
  50 – 90°F
Relative Humidity
  20 – 80% (noncondensing)
Power dissipation
  200 watts

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R/M Cobol is a trademark of Ryan McFarland

CIS Cobol is a trademark of Microfocus

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COMPUTER SYSTEMS