GE-100 Series

NEW PRODUCT ANNOUNCEMENT

MODELS 5, 10, AND 15: Honeywell Information Systems, Inc., which acquired GE's computer equipment business in September 1970, expanded the former GE-100 Series (now called the Honeywell Series 100) in July 1971 by introducing three "packaged" systems. The Model 5 and Model 10 are low-cost batch terminal systems, while the Model 15 is a small free-standing computer with communications capabilities.

The three new systems are program-compatible with the earlier GE-100 Series systems and use the same peripheral equipment and software, as described in the preceding report. The Model 5 and Model 10 systems will be of interest primarily to companies looking for flexible batch terminals for use with the Honeywell Series 6000 or other large-scale computers. The Model 15 is intended primarily as an economical upgrade system for current users of the smaller GE-105, GE-115 and GE-120 systems. All three of the new systems are currently available only in the United States. Their characteristics are summarized in the table below.

MODEL 5 TERMINAL SYSTEM: The Model 5 system is available in two versions—Standard and High-Speed. The Standard version includes a 4K central processor, 300-cpm card reader, 300-lpm printer, and a single-line communications controller in a choice of several models capable of handling data transmission speeds from 110 to 150,000 bits per second. The High-Speed Model 5 system includes an 8K central processor, 400-cpm card reader, 600-lpm printer, and single-line communications controller. Either model can be equipped with an additional 4K bytes of core storage, a 300-cpm punch, and up to two 30KB magnetic tape units. Model 5 shipments began in July 1971.

MODEL 10 TERMINAL SYSTEM: The Model 10 system is a disk-oriented "super-terminal" that provides impressive local processing capabilities, including COBOL, FORTRAN, and LOGEL compilers and a Disk Operating System. The Model 10 is available in Standard and High-Speed versions. The Standard Model 10 system includes an 8K central processor, 300-cpm card reader, 200-cpm card punch, 300-lpm printer, two disk pack drives with a total on-line capacity of 3 million bytes, and a single-line communications controller. The High-Speed Model 10 system has the same configuration except for the use of a 400-cpm card reader and 600-lpm printer. Either system can be equipped with an additional 4K bytes of core storage and up to two 30KB magnetic tape units. Model 10 shipments are scheduled to begin in August 1971.

	Model 5 (Standard)	Model 5 (High-Speed)	Model 10 (Standard)	Model 10 (High-Speed)	Model 15
MAIN STORAGE					
Cycle time, microseconds	6.5	6.5	6.5	6.5	4 (2 optional)
Bytes fetched per cycle	1	1	1	1	1
Minimum capacity, bytes	4,096	8,192	8,192	·8,192	16,384
Maximum capacity, bytes	8,192	12,288	12,288	12,288	65,536
PROCESSOR					
No. of instructions	39	39	39	39	67
No. of index registers	0	0	0	0	8
INPUT/OUTPUT CONTROL					
No. of I/O channels	2	2	2	2	3
No. of peripheral connectors	3 (4 optional)	3 (4 optional)	4	4	4
Maximum simultaneous I/O operations	2	2	2	2	3
STANDARD PERIPHERALS					
Card reader speed	300 cpm	400 cpm	300 cpm	400 cpm	400 cpm
Card punch speed	*	*	200 cpm	200 cpm	60-200 cpm
Line printer speed	300 lpm	600 lpm	300 lpm	600 lpm	**
Disk storage, bytes	None	None	3 million	3 million	**
Communications controller	Standard	Standard	Standard	Standard	*

*Not included in basic system; optional at extra cost.
**Not included in basic system; must be added at extra cost.

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▷ MODEL 15 COMPUTER SYSTEM: Designed primarily as a small batch-oriented business data processing system, the Model 15 can also be used as the central system in a network of Model 5 and Model 10 terminals or as a high-volume remote batch terminal linked to a larger computer. The basic Model 15 system includes a 16K central processor with a 4-microsecond cycle time, a 400-cpm card reader, and a card punch rated at 60 to 200 cpm. Not included in the price, but required in a minimum Model 15 system, are a 600-lpm (or faster) printer and a two-drive DSS164 Disk Storage Subsystem. Core storage capacity can be expanded to 24K, 32K, 49K, or 65K bytes, and a Memory Speedup feature reduces the cycle time to 2 microseconds. In addition, the Model 15 can be equipped with 30KB or 60KB magnetic tape drives (Model MTH163 or MTH166), up to six additional disk pack drives, and any of the other GE-100 Series peripherals. Model 15 shipments will begin in September 1971; the 49K and 65K processors are scheduled for initial delivery in April 1972.

DSS164 DISK STORAGE SUBSYSTEM: This new subsystem for the Model 15 consists of two disk pack drives and a control unit. Each drive holds 2.88 million bytes. The optional Doubled Capacity feature increases the subsystem capacity from 5.76 to 11.52 million bytes. Up to six additional drives, in two-drive increments, can be added to the DSS164 to bring the maximum on-line storage capacity to 46 million bytes. □

		Purchase Price	Monthly Maint.	Rental (1-year lease)	Rental (5-year lease)
MODELS 5 AND 10					
1M053A	Model 5 Central System with 4K bytes and Standard Peripherals	37,440	194	936	838
1M053B	Model 5 Central System with 8K bytes and Standard Peripherals	42,640	210	1,066	954
1M056B	Model 5 Central System with 8K bytes and High-Speed Peripherals	52,000	288	1,300	1,164
1M056C	Model 5 Central System with 12K bytes and High-Speed Peripherals	57,200	312	1,430	1,280
1M103B	Model 10 Central System with 8K bytes and Standard Peripherals	82,205	435	2,005	1,794
1M103C	Model 10 Central System with 12K bytes and Standard Peripherals	87,535	459	2,135	1,910
1M106B	Model 10 Central System with 8K bytes and High-Speed Peripherals	92,865	498	2,265	2,027
1M106C	Model 10 Central System with 12K bytes and High-Speed Peripherals	98,195	522	2,395	2,143
CRP100	Card Reader/Punch; 300 cpm	21,510	142	590	530
MTS103	Magnetic Tape Subsystem; control unit and one 30KB drive	24,360	139	580	520
MTH103	Additional Magnetic Tape Unit; 30KB	11,430	82	320	285
OPT007	7-Track Compatibility (for MTS103)	2,500	3	55	49
PT0316	Extension to 136 Print Positions (for 300-lpm printer)	1,470	9	35	35
PT0616	Extension to 136 Print Positions (for 600-lpm printer)	1,890	11	45	40
CSO600	Card Reader Upgrade (400 to 600 cpm)	1,440	15	45	40
MODEL 15					
1M156D	Central System with 16K bytes	79,590	267	1,895	1,696
1M156F	Central System with 24K bytes	92,190	302	2,195	1,965
1M156H	Central System with 32K bytes	104,790	337	2,495	2,233
1M156L	Central System with 49K bytes	146,790	412	3,495	3,125
1M156P	Central System with 65K bytes	171,990	487	4,095	3,665
MSOP15	Memory Speedup	8,820	30	210	188
CSO600	Card Reader Upgrade (400 to 600 cpm)	1,440	15	45	40
DSS164	Disk Storage Subsystem (two drives and control; 5.76 million bytes total)	29,280	195	610	545
ADS164	Doubled Capacity for DSS164	6,000	30	230	210
ADU164	Two Additional Drives for DSS164	28,600	148	650	582

Note: Every Model 15 Central System must be equipped with one DSS164 and one printer (600 lpm or faster). The 49K and 65K systems must also include the MSOP15 Memory Speedup feature.