

## IBM System/34 New Product Announcement

IBM announced significant enhancements to the System/34 small business computer during September 1977. Among the new capabilities are doubled main memory capacity (from 64K to 128K bytes), additional communications capabilities in the form of one additional BSC/SDLC communications adapter, and a more versatile remote workstation with an integral controller that can form 8-terminal clusters. In addition, two new application software packages, designed to take advantage of the System/34's multi-workstation capabilities, were announced.

**NEW PROCESSING UNITS:** Two new memory sizes are now available for the System/34: 96K bytes and 128K bytes. The new 96KB and 128KB processors, like the smaller System/34 processors, are available in models with a choice of single- or double-sided diskette drives and 8.6, 13.2, or 27.1 megabytes of fixed-disk storage. The combinations of memory size, diskette, and fixed-disk storage, then, yield 12 additional models and increase the total number of System/34 models from 18 to 30.

**3500 SECOND COMMUNICATIONS ADAPTER:** The expanded communications capabilities are provided by the new 3500 BSC/SDLC communications adapter, which permits attachment of one additional communications line to the System/34 processor. The 3500 communications adapter has characteristics identical with those of the 2500 communications adapter previously announced for use with the System/34, but can be added only after a 2500 adapter is incorporated into the system. Along with the new communications adapter, a complement of two 1200-bps modems, four 2400-bps modems, one EIA interface, and two Dataphone Digital Service adapters were introduced for use with it. These new units parallel similar units offered for use with the 2500 communications adapter and have identical characteristics.

**5251 MODEL 12 DISPLAY STATION:** This terminal is the key to the System/34's new remote workstation capability. It can be attached to the processor via the 2500 or 3500 communications adapters and associated modems or interfaces. Two cluster attachments, the 2550 4-line cluster and the 2551 8-line cluster, permit the attachment of up to four or eight, respectively, 5251 Model 11 display terminals or 5256 printers via individual cable connections. Further, up to four displays or printers can be attached to each of the four cable connections through the 2680 cable-through feature.

The combination of the new 3500 communications adapter and the new 5251 Model 12 display terminal subsystem expands the System/34 workstation capacity to 64 remote workstations plus the 8 local workstations that were part of the original specifications. The remote workstation capability can be added to any System/34 model, and it is expected that the resident supervisor for the workstation enhancement will add about 8K bytes to the system software memory requirements.

**MANUFACTURING ACCOUNTING AND PRODUCTION INFORMATION CONTROL SYSTEM (MAPICS):** This new software system consists of 11 application packages for order entry and invoicing, inventory management, accounts receivable, sales analysis, general ledger, accounts payable, payroll, product data management, material requirements planning, production control and costing, and data collection system support. Each of the 11 modules is licensed separately for a monthly fee ranging between \$35 and \$90. Most of the modules can be used separately, but the sales analysis module requires at least one of the order entry and invoicing, accounts receivable, or inventory management modules; the material requirements and planning module requires both the inventory management and product data management modules; and the production control and costing module requires the inventory management module. Eight of the modules are scheduled for availability in November 1978, while product data management will be ready in December 1978, material requirements planning in January 1979, and production control and costing in February 1979.

**DISTRIBUTION FINANCIAL ACCOUNTING SYSTEM (DFAS II):** This system is designed for distributors handling goods from as many as 20 companies. Like the MAPICS software package, DFAS II is designed to take advantage of the System/34's multiple-workstation capabilities. It consists of three independent, separately licensed modules: general ledger, accounts payable, and payroll. Each can be used separately. Availability date for DFAS II is November 1978.

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**EQUIPMENT PRICES**

		<u>Purchase Price</u>	<u>Monthly Maint.</u>	<u>Rental (1-year lease)*</u>	<u>Rental (TAP, 1st year)*</u>
<b>BASIC SYSTEM</b>					
5340	System Unit; includes CPU, main memory, fixed disk storage and one diskette drive				
Model D11	96K bytes, Diskette 1 drive, 8.6 megabytes of disk storage	\$32,700	\$165.00	\$ 962	\$ 875
Model D12	96K bytes, Diskette 1 drive, 13.2 megabytes of disk storage	34,480	175.00	1,034	940
Model D13	96K bytes, Diskette 1 drive, 27.1 megabytes of disk storage	41,860	210.00	1,259	1,145
Model D21	96K bytes, Diskette 2D drive, 8.6 megabytes of disk storage	34,860	170.00	1,028	935
Model D22	96K bytes, Diskette 2D drive, 13.2 megabytes of disk storage	36,640	180.00	1,100	1,000
Model D23	96K bytes, Diskette 2D drive, 27.1 megabytes of disk storage	44,020	215.00	1,325	1,205
Model E11	128K bytes, Diskette 1 drive, 8.6 megabytes of disk storage	35,900	175.00	1,050	955
Model E12	128K bytes, Diskette 1 drive, 13.2 megabytes of disk storage	37,680	185.00	1,122	1,020
Model E13	128K bytes, Diskette 1 drive, 27.1 megabytes of disk storage	45,060	220.00	1,347	1,225
Model E21	128K bytes, Diskette 2D drive, 8.6 megabytes of disk storage	38,060	180.00	1,116	1,015
Model E22	128K bytes, Diskette 2D drive, 13.2 megabytes of disk storage	39,840	190.00	1,188	1,080
Model E23	128K bytes, Diskette 2D drive, 27.1 megabytes of disk storage	47,220	225.00	1,413	1,285
<b>PERIPHERALS</b>					
5251	CRT Display Station; attaches up to eight 5251 Model 11 display stations or 5256 printers; Model 4600 keyboard required	4,050	39.00	140	119
Model 12	Cluster Adapter for 5251 Model 12 display; permits attachment of up to four 5251 Model 11 displays or 5256 printers; four cable connections; can be used with 2680 cable-through feature to attach up to four 5251 Model 11's per line; cannot be used with 2551 dual cluster; max. one per system	1,520	10.00	47	40
2551	Dual Cluster Adapter for 5251 Model 12 display; same characteristics as 2550 cluster adapter except attaches up to eight 5251 Model 11 displays or 5256 printers	3,040	20.00	94	80
5601	2400-bps Non-Switched, Multipoint Integrated Modem; for use with 2500 communications adapter	2,240	11.50	71	65
3500	Second BSC/SDLC Communications Adapter; requires 2500 adapter and either an integrated modem, EIA interface, or Dataphone Digital Service adapter	2,880	20.00	88	80
3702	EIA interface; for use with 3500 adapter; permits attachment of IBM and non-IBM modems; cannot be used with 650X, 660X, 6610, or 525X modems or adapters; requires 5734 Processor Unit Expansion C; may require 4703 internal clock	430	4.50	13	12
6500	1200-bps Integrated Modem; for use with 3500 adapter; non-switched lines; requires 5734 Processor Unit Expansion C and 4703 internal clock; cannot be used with other modems	660	5.00	19	18
6501	1200-bps Integrated Modem with Auto-Answer; same characteristics as 6500 integrated modem	880	7.00	26	24
6600	2400-bps Integrated Modem; for use with 3500 adapter; non-switched point-to-point lines; equivalent to IBM 3872 modems; requires 5733 and 5735 Processor Unit Expansions; cannot be used with other modems	2,240	11.50	71	65
6601	2400-bps Integrated Modem; for use with 3500 adapter; non-switched multipoint control; same characteristics as 6600 modem	2,240	11.50	71	65
6602	2400-bps Integrated Modem; for use with 3500 adapter; non-switched multipoint tributary; same characteristics as 6600 modem	2,490	13.00	78	71
6610	2400-bps Integrated Modem; for use with 3500 adapter; switched lines; Auto-Answer capability; same characteristics as 6600 modem	2,550	14.00	79	72
7953	Switched Network Backup Unit; for use with 660X modems; requires 3500 adapter; cannot be used with 7954 backup unit	540	3.50	16	15
7954	Switched Network Backup Unit; for use with 660X modems; includes auto-answer capability; requires 3500 adapter; cannot be used with 7953 backup unit	828	5.00	25	23

\*Rental prices include equipment maintenance.

**SOFTWARE PRICES**

	<u>Monthly License</u>
<b>Manufacturing Accounting and Production Information Control System (MAPICS):</b>	
Order Entry and Invoicing	\$50
Inventory Management	45
Accounts Receivable	35
Sales Analysis	45
General Ledger	35
Accounts Payable	47
Payroll	75
Product Data Management	90
Material Requirements Planning	90
Production Control and Costing	53
Data Collection System Support	
<b>Distribution Financial Accounting System II (DFAS II):</b>	
General Ledger	35
Accounts Payable	35
Payroll	47