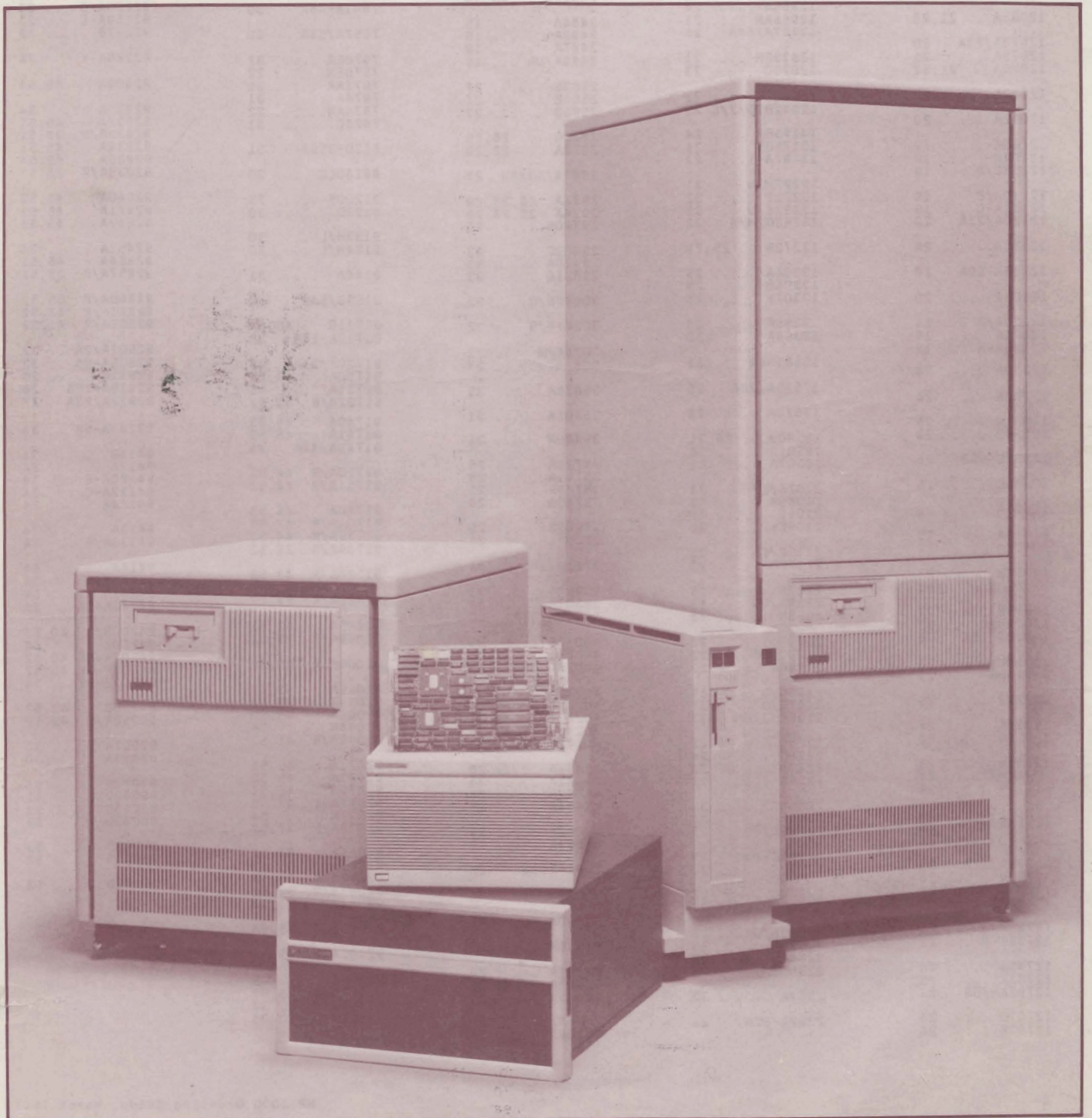


HP 1000 Computer Systems



HP 1000 Hardware, Software, and Peripherals Ordering Guide

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Ordering HP 1000 A-Series System Hardware

To systematize ordering of HP 1000 Systems, please copy pages 5 through 13 and use them to specify the products and options to be included in the system for later use in order entry, as follows:

1. Page 5 (facing) is a handy Base System Hardware Summary table that provides a convenient means of listing the system details associated with the SPU or computer, including I/O Extenders.
2. Pages 6 through 10 provide a Configuration Checklist that gives the SPU options and cables needed to support peripheral devices on HP 1000 A-Series SPUs and computers. The configuration checklist is designed to be used as follows:
 - a. Circle the model and product numbers of the selected SPU on the Configuration Checklist headings.
 - b. Circle the desired system console and the corresponding connect option (005/006/008) or interface product+option number. With SPU option 008, also circle the appropriate multiplexer and cable product numbers.
 - c. Circle the desired system disc and the corresponding media option and other related options and products, such as magnetic tape units, if appropriate.
 - d. Circle other desired peripheral devices, indicating QTY.

NOTE: If a previously-purchased HP terminal is to be used by the customer as the system console or a previously-purchased HP disc is to be used by the customer as the system disc, that fact MUST be noted in the Special Instructions section of the order to avoid confusion and delays in processing the order. The product number of the customer-furnished system console must be listed in the system console section on page 6 and the product number of the customer-furnished system disc must be listed in the system disc section on page 6 or 7. The appropriate options or option and multiplexer must always be ordered for the SPU to assure completeness of the system even if the customer will use a previously-purchased terminal or disc.

3. Page 11 provides an the Interfacing Summary designed for listing the interfaced devices and the cables used to connect them to determine the numbers of each interface and cable that will be required.
4. Page 12 in the top third of the page provides an I/O Capacity Evaluation Worksheet to determine if the system will need one or more I/O Extenders to accommodate its I/O cards.
5. The lower two-thirds of page 12 and page 13 give the configurations of memory cards that are required to provide the various sizes of memory that are supported in A400, A600+, A700, and A900 SPUs and Computers. This information includes the applicability of memory delete option 014 and the memory connector required to support each memory size.

For descriptions and pricing, see pages 14-54.

NOTE A: Computer-aided specification of HP 1000 A-Series systems based on System Processor Units or computers is available with the HP 1000 Configuration Assistant in many HP Sales Offices in the United States and some field offices in other countries. The HP 1000 Configuration Assistant translates user's selections of SPU or computer, options, memory, peripheral devices, and additional interface cards into a system summary, complete with prices and BMMCs, that includes all interfaces and cables required to complete peripheral device connections. As selections are entered, the Configuration Assistant checks them, flagging any configuration errors and providing error correction guidance. The Configuration Assistant is typically updated every two months, vs two to three times a year for this printed HP 1000 Ordering Guide.

NOTE B: A-Series systems with more than 16 I/O interfaces or more than 20 terminals should be checked for supportability by an HP Systems Engineer prior to ordering.

HP 1000 Base System Hardware Summary

ITEM	PRODUCT OR OPTION NUMBER AND NAME	QTY	COMMENTS
SPU OR COMPUTER			
FLOATING POINT PROCESSOR (2137A, 2437A, or 2487A only)			
SYSTEM CONSOLE CONNECTION -- ASI Cable Option for SPU -- ASI Delete Option for SPU -- Multiplexer Interface -- Multiplexer Cable (Also see System Interfacing Summary on page 11)			4-channel std in A400 SPU/Computer
MAIN MEMORY SIZE OF _____ MB -- Delete standard memory -- Products required for desired memory -- Required memory connector			Required only for A-Series memory chgs
SPU/COMPUTER OPERATION FROM 230V/50 Hz POWER			
SYSTEM SOFTWARE MEDIA OPTION			
SYSTEM DISC -- Option 150/151 for Integral System Disc -- Software Load Device			243xA/E or 248xA only.
BATTERY BACKUP			Not supported in 2424A or 2626E/F Computer.
25 kHz POWER			Not supported in 2424A or 2426E/F Computer.
CONTROL STORE			
I/O EXTENDER			
VERTICAL FLOOR MOUNT			243xA/E or 248xA only
CABINET AND/OR CABINET OPT			
ADDITIONAL INTERFACES AND OTHER PLUG-IN ACCESSORIES (Also see System Interfacing Summary on page 11)			

System Configuration Checklist

QTY	SUPPORTED SYSTEM CONSOLE TERMINALS	REQUIRED OPTIONS AND INTERFACING FROM SYSTEMS BASED ON:		INTERFACING FROM COMPUTERS BASED ON	
		A400 HP 2484A	A600+/A700/A900 HP 2196/7/9C/D and 2486/7/9A	A400 HP 2424A and 2434A	A600+/A700/A900 HP2156B/2137/9A and 2436/7/9A/E
	MULTIPLEXER-CONNECTED SYSTEM CONSOLE TERMINALS (System console uses channel 0 of the multiplexer)	Requires appropriate cable	Requires SPU opt 008, 12040C/D multiplexer and appropriate cable	Requires appropriate cable	Requires 12040C/D multiplexer and appropriate cable
	2392A DISPLAY TERMINAL 2393A GRAPHICS TERMINAL 2397A COLOR GRAPHICS TERMINAL 2382A OFFICE DISPLAY TERMINAL* 2621B DISPLAY TERMINAL* 2625A DUAL SYSTEM TERMINAL* 2628A WORD PROCESSING TERMINAL* 45610B TOUCHSCREEN TERMINAL*	Connect using a 40242Y cable	Connect using a 40242M cable	Connect using a 40242Y cable	Connect using a 40242M cable
	2622A DISPLAY TERMINAL* 2623A GRAPHICS TERMINAL* 2624B DISPLAY TERMINAL* 2625A DISPLAY STATION* 2627A COLOR GRAPHICS TERMINAL*	Connect using a 13222Y cable	Connect using a 13222Y cable	Connect using a 13222Y cable	Connect using a 13222Y cable
	72425A MODEL 25 VECTRA PC@ 72435A MODEL 35 VECTRA PC@ 72445A MODEL 45 VECTRA PC@	Connect using a 40242Y cable	Connect using a 24542M cable	Connect using a 40242Y cable	Connect using a 24542M cable
	SYSTEM CONSOLE TERMINALS CONNECTED VIA ASYNCHRONOUS SERIAL INTERFACE	Not recommended	Requires appropriate SPU cable option	Not recommended	Requires 12005B interface and cable option
	2392A DISPLAY TERMINAL 2393A GRAPHICS TERMINAL 2397A COLOR GRAPHICS TERMINAL 2382A OFFICE DISPLAY TERMINAL* 2621B DISPLAY TERMINAL* 2625A DUAL SYSTEM TERMINAL* 2628A WORD PROCESSING TERMINAL* 45610B TOUCHSCREEN TERMINAL*	Not recommended	Connect using SPU cable option 008	Not recommended	Connect using a 12005B interface with cable option 002.
	2622A DISPLAY TERMINAL* 2623A GRAPHICS TERMINAL* 2624B DISPLAY TERMINAL* 2626A DISPLAY STATION* 2627A COLOR GRAPHICS TERMINAL*	Not recommended	Connect using SPU cable option 005	Not recommended	Connect using a 12005B interface with cable option 005

NOTE: The system console, cable, and interface must be on the same section of the order as the System Processor Unit and its options.

If a customer will be using a previously-purchased terminal as system console, that fact MUST be noted in the Special Instructions section of the order.

* Terminal tagged with asterisk (*) is a discontinued product that can be used as a customer-furnished system console.

@ Vectra Model 25, 35*, or 45 PC also requires a 35731A (monochrome) Monitor connected via a 45981A Multimode Video Adapter or 35741A (color) Monitor connected via 45981A Multimode Video Adapter and 45984A Color Adapter, 24540A Serial/Parallel Interface or 24541A Dual RS-232/422 Interface, 45951A Vectra Disc Operating System, and 68333F AdvanceLink 2392 software for Vectra PC.

QTY	SUPPORTED SYSTEM DISC MEMORIES	REQUIRED OPTIONS AND INTERFACING FROM SYSTEMS HOUSED IN:		INTERFACING FROM COMPUTERS HOUSED IN:		
		MICRO/1000 PACKAGE HP 2484A HP 2486A HP 2487A HP 2489A	RACK MOUNT CABINET HP2196C HP2196D HP2197C HP2197D HP2199C HP2199D		MICRO/1000 PACKAGE HP 2434A HP 2436A/E HP 2437A HP 2439A	20-SLOT/6-SLOT BOX HP2137A, 2139A, 2156B, 2424A, and 2426E/F
	12120A INTEGRATED 19.4 MB FIXED & 631 kB MICROFLOPPY DISCS	SPU Opt 044 & 150	Not supported	Not supported	Computer Opt 151	Not Supported
	12121A INTEGRATED 19.4 MB FIXED DISC	SPU Opt 022 & 151 and 9144A Cartr Tape Subsystem	Not supported	Not supported	Computer Opt 151, 9144A Cartr Tape S/S, & 12009A HP-IB interface	Not Supported
	7911R 28.1 MB Rack Mtg FXD DISC# 7912R 65.6 MB Rack Mtg FXD DISC# 7914R 132.1 MB Rack Mtg FXD DISC# 7908R 16.5 MB Rack Mtg FXD DISC*#	Not Supported	SPU Opt 022	SPU Opt 022	Not Supported	12009A HP-IB interface (disc uses 1/4 of interface capacity)

* The 79xxR discs listed above all include an integral cartridge tape unit for software installation and backup.

If a customer will be using a previously-purchased disc memory as the system disc, that fact MUST be noted in the Special Instructions section of the order.

* Disc tagged with asterisk (*) is a discontinued product that can be used as a customer-furnished system disc.

System Configuration Checklist, continued

QTY	SUPPORTED SYSTEM DISC MEMORIES, Continued	REQUIRED OPTIONS AND INTERFACING FROM SYSTEMS HOUSED IN:			INTERFACING FROM COMPUTERS HOUSED IN:	
		MICRO/1000 PACKAGE HP 2484A HP 2486A HP 2487A HP 2489A	RACK MOUNT CABINET HP2196C HP2197C HP2199C		HP2196D HP2197D HP2199D	MICRO/1000 PACKAGE HP 2434A HP 2436A/E HP 2437A HP 2439A
	7911R+140 28.1 MB Rack Mtg DISC 7912R+140 65.6 MB Rack Mtg DISC 7914R+140 132.1 MB Rack Mtg DISC 7908R+140 16.5 MB Rack Mtg DISC*	Not Supported	SPU Opt 061, 797x Mag tape unit and 12009A	SPU Opt 061, 797x Mag tape unit and 12009A	HP 797x Mag tape unit and two 12009A HP-IB interfaces (disc uses 1/4 of its interface; mag tape uses 1/2 of its interface)	
	7911P 28.1 MB FIXED DISC# 7912P 65.6 MB FIXED DISC# 7914CT 132.1 MB FIXED DISC# 7914P 132.1 MB FIXED DISC# 7942A 23.8 MB DISC# 7946A 55.5 MB DISC# 7908P 16.5 MB FIXED DISC*#	SPU Opt 022	SPU Opt 022 & 053	Not Supported	12009A HP-IB interface (disc uses 1/4 of interface capacity)	
	7914ST 132.1 MB DISC/7974A MAG TAPE SUBSYSTEM 7914TD 132.1 MB DISC/7970E MAG TAPE SUBSYSTEM*	SPU Opt 061 and 12009A interface for MTU	SPU Opt 061 & 070 or 061, 053, and 12009A for MTU	Not Supported	Two 12009A HP-IB interfaces (disc uses 1/4 of its interface; mag tape uses 1/2 of its interface)	
	7933H/XP 404 MB FIXED DISC 7935H/XP 404 MB REM. MEDIA DISC 7936H/XP 307 MB FIXED DISC 7937H/XP 571 MB FIXED DISC 7911P+140 28.1 MB FIXED DISC 7912P+140 65.6 MB FIXED DISC 7912CT+140 132.1 MB FIXED DISC 7914P+140 132.1 MB FIXED DISC	SPU Opt 061, 797x mag tape unit, and 12009A interface	SPU Opt 053 and 061, 797x mag tape unit, and 12009A interface	Not Supported	HP 797x Mag tape unit and two 12009A interfaces (disc uses 1/4 of its interface; mag tape uses 1/2 of its interface)	
	7941A 23.8 MB FIXED DISC 7945A 55.5 MB FIXED DISC 7957A 81 MB FIXED DISC 7958A 130 MB FIXED DISC 9134H 19.9 MB FIXED DISC 9134L 39.9 MB FIXED DISC 9154B 19.9 MB FIXED DISC	SPU Opt 022 and 9144A Cartridge Tape S/S or 35401A+100 Auto-changer Tape S/S	SPU Opt 022 & 053 and 9144A Cartridge Tape S/S or 35401A+100 Auto-changer Tape S/S	Not Supported	9144A Cartridge Tape Subsystem or 35401A+100 Autochanger Tape Subsystem and 12009A interface (together, the disc and cartridge tape use 1/2 the capacity of the 12009A interface)	
	9133H 19.9 MB FIXED & 631 kB MICROFLOPPY DISCS@ 9133L 39.9 MB FIXED & 631 kB MICROFLOPPY DISCS@ 9153B 19.9 MB FIXED & 631 kB MICROFLOPPY DISCS@	SPU Opt 044	SPU opt 044 & 053	Not supported	12009A HP-IB interface (disc uses 1/4 of capacity of 12009A interface)	

* The 79xxCT/P discs tagged with * all include an integral cartridge tape unit for software installation and backup.

* Disc tagged with asterisk (*) is a discontinued product that can be used as a customer-furnished system disc. If a customer will be using such a previously-purchased disc memory as the system disc, that fact MUST be noted in the Special Instructions section of the order.

@ Diagnostics cannot be loaded via microfloppy disc drive in 9133H/L or 9153A disc product.

QTY	SUPPORTED MAGNETIC TAPE UNITS	REQUIRED OPTIONS AND INTERFACING FROM SYSTEMS HOUSED IN:			INTERFACING FROM COMPUTERS HOUSED IN:	
		MICRO/1000 PACKAGE HP 2484A HP 2486A HP 2487A HP 2489A	RACK MOUNT CABINET HP2196C HP2197C HP2199C		HP2196D HP2197D HP2199D	MICRO/1000 PACKAGE HP 2434A HP 2436A/E HP 2437A HP 2439A
	7970ER+636 1600 cpi Rack Mtg MAG TAPE UNIT	Not supported	SPU Opt 051 and 12009A interface	Not Supported	12009A HP-IB interface (mag tape unit uses 1/2 of interface capacity)	
	7970ER+626 1600 cpi MAG TAPE UNIT 7971AR+140 1600 cpi MAG TAPE UNIT 7974A 1600 cpi MAG TAPE UNIT 7978B 6250/1600 cpi MAG TAPE UNIT	12009A HP-IB interface (mag tape unit uses 1/2 of interface capacity)				
	9144A CARTRIDGE TAPE SUBSYSTEM 35401A+100 AUTOCHANGER TAPE S/S	12009A HP-IB interface (cartridge tape subsystem uses 1/4 of interface capacity; can share interface with 79xxA/CT/P/R or 793xH/XP disc)				

NOTE A: For 7914ST and 7914TD Disc-Magnetic Tape Subsystems, see System Discs listing above. All mag tape units are standalone unless rack mounting is specified.

NOTE B: HP 7974A maximum read block = 32 kB, maximum write block = 16 kB. This is less than HP 7970ER and 7971AR AND MAY AFFECT CUSTOMER SATISFACTION.

System Configuration Checklist, continued

QTY	ADDITIONAL SUPPORTED DISPLAY TERMINALS AND INDUSTRIAL TERMINALS	INTERFACING FROM SYSTEMS AND COMPUTERS BASED ON A400 HP 2484A, 2424A, and 2434A	INTERFACING FROM SYSTEMS AND COMPUTERS BASED ON A600+/A700/A900 HP 2196C/D, 2197C/D, 2199C/D, 2486A, 2487A, 2489A, 2156B, 2137A, 2139A, 2428E/F, 2436A/E, 2437A, 2439A
	<p>MULTIPLEXER-CONNECTED DISPLAY TERMINALS</p> <p>2392A DISPLAY TERMINAL 2393A GRAPHICS TERMINAL 2397A COLOR GRAPHICS TERMINAL 2382A OFFICE DISPLAY TERMINAL* 2621B DISPLAY TERMINAL* 2625A DUAL SYSTEM TERMINAL* 2628A WORD PROCESSING TERMINAL* 45610B TOUCHSCREEN TERMINAL*</p> <p>2622A DISPLAY TERMINAL* 2623B GRAPHICS TERMINAL* 2624B DISPLAY TERMINAL* 2626A DISPLAY STATION* 2627A COLOR GRAPHICS TERMINAL*</p> <p>2645A DISPLAY STATION* 2648A GRAPHICS TERMINAL*</p> <p>72411A VECTRA INDUSTRIAL PC# 72425A MODEL 25 VECTRA PC@ 72435A MODEL 35 VECTRA PC* 72445A MODEL 45 VECTRA PC@</p>	<p>For first three terminals in addition to console, requires cable. With more terminals, also requires a 12040C/D 8-channel multiplexer(s)</p> <p>Connect using a 40242Y cable</p> <p>Connect using a 13222Y cable</p> <p>Connect using a 13232Y* or a 13232A* cable (part no. 02640-60218 or 02640-60043)</p> <p>Connect using a 40242Y cable</p>	<p>For each terminal, requires one channel of 12040C/D 8-channel multiplexer and appropriate cable.</p> <p>Connect using a 40242M cable</p> <p>Connect using a 13222Y cable</p> <p>Connect using a 13232Y* or a 13232A* cable (part no. 02640-60218 or 02640-60043)</p> <p>Connect using a 24542M cable</p>
	<p>DISPLAY TERMINALS CONNECTED VIA ASYNCHRONOUS SERIAL INTERFACE</p> <p>2392A DISPLAY TERMINAL 2393A GRAPHICS TERMINAL 2397A COLOR GRAPHICS TERMINAL 2382A OFFICE DISPLAY TERMINAL* 2621B DISPLAY TERMINAL* 2625A DUAL SYSTEM TERMINAL* 2628A WORD PROCESSING TERMINAL* 45610B TOUCHSCREEN TERMINAL*</p> <p>2622A DISPLAY TERMINAL* 2623A GRAPHICS TERMINAL* 2624B DISPLAY TERMINAL* 2626A DISPLAY STATION* 2627A COLOR GRAPHICS TERMINAL*</p> <p>2645A DISPLAY STATION* 2648A GRAPHICS TERMINAL*</p>	<p>Requires 12005B interface and cable option</p> <p>Connect using a 12005B interface with cable option 002</p> <p>Connect using a 12005B interface with cable option 005</p> <p>Connect using a 12005B interface with cable option 004</p>	<p>Requires 12005B interface and cable option</p> <p>Connect using a 12005B interface with cable option 002</p> <p>Connect using a 12005B interface with cable option 005</p> <p>Connect using a 12005B interface with cable option 004</p>
	<p>MULTIPLEXER-CONNECTED INDUSTRIAL WORKSTATION TERMINALS</p> <p>3081A INDUSTRIAL WORKSTATION TERMINAL</p>	<p>For first three terminals in addition to system console, requires the items listed below. With more terminals, must add a 12040C/D 8-channel multiplexer(s).</p> <p>Connect using a 40242X cable per channel to 92922A Four-Channel Adapter (supports four HP 3081As) or a 40242Y cable to 92923A Single-Channel Adapter and a cut-to-length 92179H cable plus two 5061-3858 connector kits to each HP 3081A from the 92922A/92923A Adapter(s).</p>	<p>For each terminal, requires one channel of 12040C/D 8-channel multiplexer and the items listed below.</p>

* Terminal/cable tagged with asterisk (*) is a discontinued product listed here for reference only.

Vectra Industrial PC also requires requires a 35745A Industrial Enhanced (color) Graphics Display connected via a 45983A Enhanced Graphics Adapter, 24540A Serial-Parallel Interface or 24541A Dual RS-232/422 Interface, 45951A Vectra Disc Operating System, and 68333F AdvanceLink 2392 communication software for Vectra PC.

@ Vectra Model 25, 35*, or 45 PC also requires a 35731A (monochrome) Monitor connected via a 45981A Multimode Video Adapter or 35741A (color) Monitor connected via 45981A Multimode Video Adapter and 45984A Color Adapter or 35743A Enhanced (color) Graphics Display connected via 45983A Enhanced Graphics Adapter, 24540A Serial-Parallel Interface or 24541A Dual RS-232/422 Interface, 45951A Vectra Disc Operating System, and 68333F AdvanceLink 2392 communication software for Vectra PC.

System Configuration Checklist, continued

QTY	SUPPORTED SYSTEM-CONNECTED PRINTERS	INTERFACING FROM SYSTEMS AND COMPUTERS BASED ON A400 HP 2484A, 2424A, and 2434A	INTERFACING FROM SYSTEMS AND COMPUTERS BASED ON A600+/A700/A900 HP 2196C/D, 2197C/D, 2199C/D, 2486A, 2487A, 2489A, 2156B, 2137A, 2139A, 2426E/F, 2436A/E, 2437A, 2439A
	MULTIPLEXER-CONNECTED PRINTERS 2225D THINKJET PRINTER 2227A QUIETJET PLUS PRINTER 2228A QUIETJET PLUS 2686A/2686A+300 LASERJET PRINTER 2563B+049 300 LPM LINE PRINTER 2564B+049 600 LPM LINE PRINTER* 2565A+049 600 LPM LINE PRINTER* 2566B+049 750 LPM LINE PRINTER* 2932A 200 cps/132 col PRINTER 2934A 200/100/67 cps PRINTER	For first three multiplexer-connected devices in addition to system console, requires a cable. With more devices, also requires a 12040C/D 8-channel multiplexer(s). Connect using a 13242N cable Connect using a 92219G cable	For each printer, requires one channel of 12040C/D 8-channel multiplexer and the appropriate cable.
	HP-IB CONNECTED PRINTERS 2563B+214 300 LPM LINE PRINTER 2564B+214 600 LPM LINE PRINTER 2565A+214 600 LPM LINE PRINTER* 2566B+214 880 LPM LINE PRINTER 2608SR 400 LPM LINE PRINTER 2671G (thermal) GRAPHICS PRINTER 2673A INTELL. GRAPHICS PRINTER 2932A+046 200 cps/132 col PRINTER 2934A+046 200/100/67 cps PRINTER 82906A 160 cps DOT-MATRIX PRINTER 2671A (thermal) PRINTER* 82905B IMPACT PRINTER*	Requires one 12009A HP-IB interface. Connect using a 10833B/C cable. Each printer uses 1/2 of the capacity of the 12009A interface; no other devices may be connected via a 12009A interface used to connect 256xA/B+214 or 2608SR Line Printers. Connect using a 10833B/C cable. Each printer uses 1/8 of the capacity of the 12009A interface; other types of HP-IB devices may be connected via the 12009A interface used to connect these printers. Do not connect low-speed devices and high-speed devices via the same 12009A interface.	

* Maximum print speed with 2564B+049, 2565A+049, or 2566B+049 printer requires 19.2k baud multiplexer data rate.

QTY	SUPPORTED GRAPHICS DEVICES	INTERFACING FROM SYSTEMS AND COMPUTERS BASED ON A400 HP 2484A, 2424A, and 2434A	INTERFACING FROM SYSTEMS AND COMPUTERS BASED ON A600+/A700/A900 HP 2196C/D, 2197C/D, 2199C/D, 2486A, 2487A, 2489A, 2156B, 2137A, 2139A, 2426E/F, 2436A/E, 2437A, 2439A
	COLOR MONITOR 13279B 19-in. RGB COLOR MONITOR	12065A color video interface to first monitor; each connection to 2nd through 5th monitors on same video feed requires three coaxial tees and three coaxial cables.	
	MULTIPLEXER-CONNECTED GRAPHICS DEVICES 2393A GRAPHICS TERMINAL 2397A COLOR GRAPHICS TERMINAL 45610B TOUCHSCREEN TERMINAL* 2623A GRAPHICS TERMINAL* 2627A COLOR GRAPHICS TERMINAL* 2686A LASERJET PRINTER 2686A+300 LASERJET PLUS PRINTER 7440A+001 COLORPRO PLOTTER 7470A+001 Two-Pen PLOTTER* 7475A+001 Six-Pen PLOTTER 7570A DRAFTPRO PLOTTER 7580B+060 D-SIZE DRAFTING PLOTTER 7585B+060 E-SIZE DRAFTING PLOTTER 7586B+060 E-SIZE ROLL-FEED DRAFTING PLOTTER 7510A COLOR FILM RECORDER 7550A AUTO-SHEET FEED PLOTTER 2563B+049 300 LPM LINE PRINTER 2564B+049 600 LPM LINE PRINTER* 2565A+049 600 LPM LINE PRINTER* 2566B+049 750 LPM LINE PRINTER* 2932A 200 cps/132 col PRINTER 2934A 200/100/67 cps PRINTER	For first three multiplexer-connected devices in addition to system console, requires cable. With more devices, also requires a 12040C/D 8-channel multiplexer(s). Connect using a 40242M cable Connect using a 13222Y cable Connect using a 13242N cable Connect using a 17355A cable Connect using a 92219G cable	For device, requires one channel of 12040C/D 8-channel multiplexer, and the appropriate cable.

* Printer or graphics device tagged with asterisk (*) is a discontinued product listed here for reference only.

System Configuration Checklist, continued

QTY	SUPPORTED GRAPHICS DEVICES, Continued	INTERFACING FROM SYSTEMS AND COMPUTERS BASED ON A400 HP 2484A, 2424A, and 2434A	INTERFACING FROM SYSTEMS AND COMPUTERS BASED ON A600+/A700/A900 HP 2196C/D, 2197C/D, 2199C/D, 2486A, 2487A, 2489A, 2156B, 2137A, 2139A, 2426E/F, 2436A/E, 2437A, 2439A
	<p>HP-IB CONNECTED GRAPHICS DEVICES</p> <p>9111A GRAPHICS TABLET*</p> <p>7440A+002 COLORPRO PLOTTER 7470A+002 Two-Pen PLOTTER* 7475A+002 Six-Pen PLOTTER 7510A COLOR FILM RECORDER 7550A AUTO-SHEET FEED PLOTTER 7570A DRAFTPRO PLOTTER with 17570A HP-IB Interface 7580B+060 D-SIZE DRAFTING PLOTTER 7585B+060 E-SIZE DRAFTING PLOTTER 7586B+060 E-SIZE ROLL-FEED DRAFTING PLOTTER</p> <p>2932A+046 GEN'L PURPOSE PRINTER 2934A+046 OFFICE PRINTER</p> <p>2563B+214 300 LPM LINE PRINTER 2564B+214 600 LPM LINE PRINTER 2565A+214 600 LPM LINE PRINTER* 2566B+214 880 LPM LINE PRINTER</p>	<p>Requires one 12009A HP-IB interface.</p> <p>Connect using a 10833B/C cable. Each device uses 1/8 of the capacity of the 12009A interface. Do not connect low-speed devices and high-speed devices via the same 12009A interface.</p> <p>Connect using a 10833B/C cable. Each printer uses 1/2 of the capacity of the 12009A interface; no other devices may be connected via a 12009A interface used to connect 256xA/B+214 or 2608SR Line Printers.</p>	

* Device tagged with asterisk (*) is a discontinued product listed here for reference only.

QTY	SUPPORTED ADDITIONAL PERIPHERAL DISC MEMORIES	INTERFACES AND CABLES FOR ALL A-SERIES SYSTEMS AND COMPUTERS	
	<p>7907A 41 MB CARTRIDGE DISC 7911P 28.1 MB FIXED DISC# 7912P 65.6 MB FIXED DISC# 7914CT 132.1 MB FIXED DISC# 7914P 132.1 MB FIXED DISC# 7933H/XP 404 MB FIXED DISC 7935H/XP 404 MB REMOVABLE MEDIA DISC 7936H/XP 307 MB FIXED DISC 7937H/XP 571 MB FIXED DISC 7942A 23.8 MB DISC# 7946A 55.5 MB DISC# 7957A 81 MB FIXED DISC 7958A 130 MB FIXED DISC 7908P 16.5 MB FIXED DISC**</p>	<p>12009A HP-IB interface, which can be the the system disc interface provided in the System Processor Unit (SPU). Each disc uses 1/4 of the capacity of the 12009A interface. These discs include the cables needed for connection.</p>	
	<p>7906M 19.6 MB MAC MASTER CARTRIDGE DISC* 7920MR 50 MB MAC MASTER DISC* 7925MR 120 MB MAC MASTER DISC*</p>	<p>12009A HP-IB interface connected to 79xxM/MR disc via 12745D* HP-IB Adapter, which as now available with 7920MR/7925MR as 792xMR option 102.</p>	
	<p>7906S 19.6 MB MAC SLAVE CARTRIDGE DISC* 7920SR 50 MB MAC SLAVE DISC* 7925SR 120 MB MAC SLAVE DISC*</p>	<p>Disc controller in 79xxM/MR MAC Master Disc (maximum of five 79xxS/SR discs in A-Series System). These discs include the cables needed for connection.</p>	
	<p>9122D 1.2 MB DUAL MICROFLOPPY DISC 9133H 19.9 MB FIXED & 631 kB MICROFLOPPY DISCS 9133L 39.9 MB FIXED & 631 kB MICROFLOPPY DISCS 9133D 14.8 MB FIXED & 270 kB MICROFLOPPY DISCS* 9134H 19.9 MB FIXED DISC 9134L 39.9 MB FIXED DISC 9134D 14.8 MB FIXED DISC* 9153B 19.9 MB FIXED & 631 kB MICROFLOPPY DISCS 9154B 19.9 MB FIXED DISC 9895A 2.4 MB DUAL FLEXIBLE DISC*</p>	<p>12009A HP-IB interface, which can be the the system disc interface provided in the System Processor Unit (SPU) and 10833C/D cable. Each disc uses 1/4 of the capacity of the 12009A interface.</p>	

NOTE A: One 7907A, 791xCT/P, or 793xH/XP Disc can be connected to the same 12009A interface as one 79xxM/12745D MAC Master Disc, but contention between the different types of discs on the same HP-IB bus may degrade performance.

* Integral CS/80 cartridge tape unit can be deleted from additional disc by ordering 791xCT/P option 140.

* Discs and adapter tagged with asterisk (*) are discontinued products listed here for reference only.

System Interfacing Summary

PRODUCT AND OPTION NUMBERS OF INTERFACED DEVICES	QTY	VIA A-SERIES INTERFACE AND CABLE PRODUCT NUMBERS			COMMENTS OR OTHER CONNECTION REQUIREMENTS (PRODUCT & OPT NUMBERS)
SYSTEM CONSOLE INTERFACE	1	4-Port multiplexer on A400 CPU card	12005B (Standard in SPU*)	12040D (Order w/Option 008*)	Max. of four terminals per A400 CPU, eight terminals per 12040D multiplexer, one terminal per 12005B interface.
SYSTEM DISC INTERFACE	1	12009A (or 12022A with 12120A or 12121A) (Standard in SPU.)			Max. of four discs per 12009A.
MULTIPLEXER INTERFACE		12040D			Eight ports for terminals or printers
HP-IB INTERFACE		12009A			Max. of 14 devices per interface (8 devices per 12009A in fast mode).
MULTIPOINT/DATA LINK INTERFACE		12092A			Max. of 32 terminals or other devices per interface.
OTHER INTERFACE					
OTHER INTERFACE					
OTHER INTERFACE					
OTHER INTERFACE					
OTHER INTERFACE					
OTHER INTERFACE					

* Except in the HP 2484A SPU, SPU Option 008 deletes the 12005B system console interface, which MUST be replaced by ordering the 12040D Eight-Channel Multiplexer with appropriate cable to function as the system console interface. The integral 4-port multiplexer on the A400 CPU card replaces the 12005B Asynchronous Serial Interface in the HP 2484A SPU.

HP 1000 System I/O Capacity Evaluation Worksheet

DESCRIPTION/PROCEDURE	CARD CAGE SLOTS IN >	A400	A600+	A700	A900
ADD: 1. Slots used by CPU, Memory Control, and Basic Firmware Cards		1	2	3	4
2. Slot used by A700 Floating Point Processor Card (std in 2197C/D)		0	0	1	0
3. Slots used by Memory Array Cards (from Memory Ordering Guide Table)		—	—	—	—
4. Slots used by Control Store Cards		0	0	—	—
5. Slots (2) occupied by 12154A Battery Backup Card in 243xA/E or 248xA		—	—	—	—
6. Slots used by I/O interfaces (totalled from Interfacing Summary)		—	—	—	—
TOTAL		—	—	—	—

A400/A600+/A700/A900 I/O CAPACITY REQUIREMENTS EVALUATION			
FOR: TOTAL = 6 OR LESS	TOTAL = 7 TO 14	TOTAL = 15 TO 20	TOTAL = 21 TO 33 OR 39
USE 2424A or 2426E/F or 2426E/F Computer	USE 248xA SPU or 243xA/E Computer	USE 219xC/D SPU or 2137A, 2139A, or 2156B Computer	ADD one 12025A or one 12025B I/O Extender

HP 1000 A400 System Memory Ordering Guide

NOTE: ECC Memory is NOT supported on A400 computers or SPUs.

PARITY MEMORY SIZE*	512 kB	1.0 MB	1.5 MB	2.0 MB	2.5 MB	3.0 MB	3.5 MB	4.0 MB
12103C 512 kB ARRAY CARD	0	1	2	1	2	1	2	1
12103D 1.0 MB ARRAY CARD	0	0	0	1	1	2	2	3
MEMORY CONNECTOR	Not Req'd	12038A	12038B	12038B	12038C	12038C	12038D	12038D

* All configurations are based on the 512 kB base parity memory that is included on the A400 CPU card.

HP 1000 A600+ System Memory Ordering Guide

NOTE: When the A600+ computer/SPU is equipped with an ECC memory controller, ECC and parity memory array cards can be used together, within the limitation of a maximum of four array cards, to provide other memory sizes than those shown here. However, the 12104A 512 kB ECC Memory Array card for A700 cannot be used in an A600+ System.

MEMORY SIZE	512 kB	1.0 MB	1.5 MB	2 MB	3 MB	4 MB#	5 MB	6 MB	7 MB@	8 MB@
12103C 512 kB ARRAY CARD	0	1	2	1	1	1	n/s	n/s	n/s	n/s
12103D 1.0 MB ARRAY CARD	0	0	0	1	2	3	n/s	n/s	n/s	n/s
MEMORY CONNECTOR	n/r	12038A	12038B	12038B	12038C	12038D	n/s	n/s	n/s	n/s

PARITY MEMORY (All configurations are based on use of the 12102B 512 kB parity memory controller, which is standard in 2196C/D, 2426E, 2436E, and 2486A. For 2106BK, 2156B, and 2436A, must order computer option 014 and the 12102B 512 kB parity memory controller.)

ECC MEMORY (Must order SPU or computer Option 014 to delete the standard parity memory controller.)

SPU OR COMPUTER OPTION**	014	014	014	014	014	014	014	014	014	014
12110A 512 kB MEM CONTROL	1	0	0	0	0	0	0	0	0	0
12110B 1.0 MB MEM CONTROL	0	1**	1	1	1	1	1	1	1	1
12111A 512 kB ARRAY CARD	0	0	1	0	0	0	0	0	0	0
12111B 1.0 MB ARRAY CARD	0	0	0	1	2	1	1	1	2	1
12111C 2.0 MB ARRAY CARD	0	0	0	0	0	1	1	2	2	3
MEMORY CONNECTOR	n/r	n/r	12038A	12038A	12038B	12038B	12038C	12038C	12038D	12038D

n/s = Not Supported n/r = Not Required

2426E Computer can support a maximum of four parity memory cards, including its 12102B 512 kB Parity Memory Controller, for an absolute maximum of 3 MB of parity memory. For systems requiring ECC memory, use the 2426F Computer, which includes a 12110B 1 MB ECC Memory Controller; there is no Option 014 for the 2426E.

@ 2426F Computer can support a maximum of four ECC memory cards, including its 12110B 1 MB ECC Memory Controller, for an absolute maximum of 6 MB of ECC memory.

** The 2426F Computer includes the 12110B 1 MB ECC Memory Controller as standard equipment, so ordering it is not necessary; there is no option 014 for the 2426E or 2426F.

HP 1000 A700 System Memory Ordering Guide

NOTE: Within the limitation of a maximum of four memory array cards, ECC and parity memory array cards can be used together in the same system and other memory sizes than those listed here can be supported.

MEMORY SIZE	512 KB	1.0 MB	1.5 MB	2 MB	3 MB	4 MB	5 MB	6 MB	7 MB	8 MB
PARITY MEMORY										
2137A or 2437A* OPTION	014	014	014	014	014	014	n/s	n/s	n/s	n/s
2197C/D or 2487A* OPTION	Std	014	014	014	014	014	n/s	n/s	n/s	n/s
12103C 512 KB ARRAY CARD	1*	0	1	0	0	0	n/s	n/s	n/s	n/s
12103D 1.0 MB ARRAY CARD	0	1	1	2	3	4	n/s	n/s	n/s	n/s
MEMORY CONNECTOR	12038A*	12038A	12038B	12038B	12038C	12038D	n/s	n/s	n/s	n/s

ECC MEMORY

OPTION	014	014	014	014	014	014	014	014	014	014
12111A 512 KB ARRAY CARD	1	0	1	0	0	0	0	0	0	0
12111B 1.0 MB ARRAY CARD	0	1	1	0	1	0	1	0	1	0
12111C 2.0 MB ARRAY CARD	0	0	0	1	1	2	2	3	3	4
MEMORY CONNECTOR	12038A	12038A	12038B	12038A	12038B	12038B	12038C	12038C	12038D	12038D

* Optional floating point processor card and/or control store card each reduces available memory capacity of the 2437A or 2487A Micro 27 Computer or SPU by one card.

* Applies only to ordering 512 KB memory for 2137A or 2437A Computer.

n/s = Not Supported



HP 1000 A900 System Memory Ordering Guide

NOTE: Within the maximum number of array cards permitted in the particular SPU or computer, other memory sizes than those listed can be supported, using combinations of 3 MB and 768 kB memory array cards.

MEMORY SIZE	768 KB	1.5 MB	3 MB	6 MB	9 MB*	12 MB*	15 MB#	18 MB#	21 MB#	24 MB#
SPU OR COMPUTER OPTION	Std	014	014	014	014	014	014	014	014	014
12220A@ 768 KB ARRAY CARD	0	2	0	0	0	0	0	0	0	0
12221A 3 MB ARRAY CARD	0	0	1	2	3*	4*	5#	6#	7#	8#
MEMORY CONNECTOR	Incl.	12222B	12222A	12222B	12222C	12222D	12222E	12222F	12222G	12222H

* This configuration exceeds the memory array card capacity of the 2439A or 2489A Computer or SPU.

This configuration cannot be supported by the 12157A Battery Backup Module in the 2199C/D SPU and exceeds the memory array card capacity of the 2439A or 2489A Computer or SPU.

Price Table Information

Price Applicability

All product and service prices in this document apply only in the United States (service prices higher in Alaska) and are subject to change without notice. Quotations will be based on the current HP Corporate Price List and the current HP Service Price Book.

Price Table Explanation

The Supplying Divisions for all HP 1000 products are noted in the Price List tables of this guide. Supplying Division is noted immediately beneath table headings or in parenthesis immediately beneath the product number, as indicated in the example below.

PROD. NO., DESCRIPTION, & OPTIONS		PRICE/BMMC
37222A (1400)	INTEGRAL MODEM I/F w/auto dial and auto answer for	\$ 1,340/\$ 3
Product Number (Supplying Div)	Name and Description (and Requirements)	List Price and Discount Code
	Basic Monthly Maintenance Charge	
	Change/Removal from HP CPL code	
	c = changed copy	
	d = price or BMMC price decrease	
	i = price or BMMC price increase	
	n = new line	

Discount Codes and Definitions

d = Price discountable under the HP Computer Products Purchase Agreement; check the Purchase Agreement for the applicable discount schedule.

f = Option or accessory price discountable under the same HP Computer Products Purchase Agreement discount schedule as the product it is ordered with.

n = Price is NOT purchase agreement discountable.

Hardware Support Services Definitions

BMMC = Basic Monthly Maintenance Charge — on systems provides 8 AM to 5 PM service day, Mon-Fri, next workday response for remedial maintenance, engineering improvements, site environmental survey, continuous service, system history logs, and

account responsible customer engineering. In absence of any suffix letter, such as w, s, or m, the price under /BMMC is for Basic Monthly Maintenance Charge as defined here.

WMMC = Workstation Monthly Maintenance Charge — On Personal Computers and peripheral devices used principally with them provides 8 AM to 5 PM service day, Mon-Fri, with 4-hour response for remedial maintenance. This charge is identified in the /BMMC column by a w suffix if it is available and /BMMC is not available for a particular product.

SMS = Software Material Subscription for firmware on an interface. SMS is ordered as the parent product number +S00. The monthly charge for SMS in the /BMMC column is tagged with an s suffix letter.

MUS = Manual Update Service for hardware or software manuals. MUS is ordered as the parent product number +Q00. The monthly charge for MUS in the /BMMC column is tagged with an m suffix letter.

SMMC = Standard Monthly Maintenance Charge — on systems provides BMMC-level service, but with 8 AM to 9 PM service day and 4-hour response for remedial maintenance for a charge about 130% of the BMMC charge for a typical system.

Uncommon Abbreviations

av	= available	mem	= memory
ch	= channel or channels	mpxer	= multiplexer
ctrl	= control	mtg	= mounting
dis	= discount	n.a.	= not applicable
exp	= expandable or expander	n/a	= not available
gen	= generator	n/c	= no charge
instr	= instruction	opt	= option of options
F/W	= firmware	o/p	= output or outputs
I/F	= interface	req	= requires
I/p	= input	req'd	= required
kB	= kilobyte(s)	S/W	= software
MB	= megabyte(s)	w/	= with
		w/o	= without

HP 1000 Power Requirements

Except where otherwise noted, the standard power input voltage used by HP 1000 products is 115V ac. Options offering other power combinations are listed here and in the HP Corporate Price List.

A-Series Computer and System Bundles

The following bundles offer packages of popular HP 1000 system components at significant cost savings and simplify ordering to save time and effort.

NOTE A: All bundle orders must specify coordinated shipment. Use the Ordering Guide on pages 4 - 13 to match your choice of system console with the appropriate connect cable and, where applicable, to match software media option with the system disc and software installation device that is included in, or ordered with the Bundle.

NOTE B: For operating system software and diagnostic support services, see pages 49 and 54.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
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SYSTEM BUNDLES BASED ON MICRO 14 & MICRO 16 COMPUTERS

NOTE A: For rack-mounting Micro 14 and Micro 16 Computers and related Bundle peripherals, use a 92211L Taboret Cabinet or 92211R Mini Rack Cabinet.

NOTE B: The 2456A Bundle does NOT include site prep or installation at the customer's site.

NOTE C: MICRO 14 PLUS packages based on the Micro 14 computer are described in the Micro 14 Plus data sheet, Literature Stock Number 5954-8549.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
2456A MICRO 16 PLUS COMPUTER BUNDLE (HP 2426E with): - 512 kB parity memory - 8-channel multiplexer - HP-IB interface - Two available I/O chan. - Right to execute RTE-A	\$ 7,015n/\$ 63
-001 Provides 1 MB ECC memory instead of 512 kB parity mem [2426F Computer instead of 2426E Computer].	2,000f/\$ -9
-002 Adds 40 MB Winchester disc (EXCLUDES opt 003 and 015).	3,550f/\$ 35
-003 Adds 55 MB Winchester disc (EXCLUDES opt 002 and 015).	5,300f/\$ 40
-004 Adds 65 MB Cartridge Tape Subsystem	2,600f/\$ 11
-015 Adds 55 MB Winchester disc for use with 230V/50 Hz ac power (EXCLUDES options 002 and 003).	5,300f/\$ 40

SYSTEM BUNDLE BASED ON MICRO 29 SYSTEM PROCESSOR UNIT

NOTE: For rack-mounting the Micro 29 System Processor Unit, use a 29431G Cabinet and 12679C mounting rails. TO ASSURE PROPER AIRFLOW, THE MICRO 29 SPU MUST BE MOUNTED IN THE UPPER COMPARTMENT OF THE 29431G CABINET.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
2459A MICRO 29 PLUS SYSTEM BUNDLE. HP 2489A SPU with: - 1.5 MB ECC memory and memory connectors - 8-channel multiplexer - Six available I/O chan - 40 MB Winchester disc - 65 MB Cartridge Tape S/S - RTE-A operating system - VC+ Extension to RTE-A	\$33,550n/\$157
-001 Provides 55 MB Winchester disc instead of 40 MB disc. (EXCLUDES options 002, 115, and 215)	1,650f/\$ 5
-002 Provides 132.1 MB Winchester disc instead of 40 MB disc. (EXCLUDES options 001, 115, and 215)	7,400f/\$ 15
-003 Provides 3 MB ECC memory on one board instead of 1.5 MB on two boards. (Makes one additional I/O slot avail.)	4,000f/\$-11
-004 Adds 12007B modem interface to other HP 1000 System	1,800f/\$ 15
-005 Adds 12044A dir conn interface to other HP 1000 System	2,040f/\$ 10
-006 Adds 12076A LAN/1000 Link interface and 91790R right-to-copy NS/1000 software	5,480f/\$ 16
-015 230V/50 Hz ac power (deletes power cable from 2489A SPU)	Of/ 0
-115 7945A for operation from 230V/50 Hz power (EXCLUDES options 001, 002, and 215)	1,650f/\$ 5
-215 7914CT Option 140 for oper from 230V/50 Hz power (EXCLUDES opt 001, 002, & 115).	7,400f/\$ 15

System Processor Units (SPUs) for Micro 24, 26, 27, & 29 Systems

NOTE A: All systems orders must specify coordinated shipment. Use HP 1000 Ordering Guide on pages 4 - 13 to match system console and disc choices with console connect and software media options. System console, system disc, and any value pack must be on the same section of the order as the System Processor Unit.

NOTE B: System Processor Units include Site Preparation Consultation, On-Site Installation Assistance, and 90-day On-Site Hardware Warranty Service.

NOTE C: For operating system software and diagnostic support services, see pages 49 and 54.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
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MUST ORDER ONE of Media Options 022, 044, or 061, system console, and system disc for all Micro/1000 Systems. (See the HP 1000 Configuration Checklist on pages 6 through 10.)

NOTE: For rack-mounting Micro/1000 SPUs, use a 29431G Cabinet and 12679C mounting rails. TO ASSURE PROPER AIRFLOW, THE MICRO/1000 SPU MUST BE MOUNTED IN THE UPPER COMPARTMENT OF THE 29431G CABINET.

2484A MICRO 24 (A400) SPU w/RTE-A, 512 kB parity memory, four serial I/O ports, HP-IB I/f to system disc & 12 av I/O chan in Micro/1000 package with power cable.	\$ 9,500d/\$ 24
-015 230V/50 Hz ac power (deletes power cable)	Of/ 0
-022 CS/80 cartridge tape media (EXCLUDES Options 044 & 061)	Of/ 0
-044 Microfloppy disc media for use with 12120A Discs (EXCLUDES Options 022 & 061)	Of/ 0
-061 1600 cpi mag tape media (EXCLUDES Options 022 & 044)	Of/ 0
-150 Preparation Kit for 12120A integrated discs (also deletes 12009A interface)	-1,100f/\$ -6
-151 Preparation Kit for 12121A integrated disc	Of/\$ 0

NOTE: For the 2486A, 2437A, and 2489A SPUs, MUST ORDER ONE of Connect Options 005 or 006, to match your selection of system console on page 5 of the configuration Checklist, or Option 008 to delete the Asynchronous Serial Interface.

2486A MICRO 26 (A600+) SPU w/RTE-A, 512 kB parity memory, async serial and HP-IB interfaces, & 10 av I/O ch in Micro/1000 package with power cable.	\$10,000d/\$ 62
-005 15m (49 ft) Fiber Optic conn to terminal; EXCLUDES Option 006 or 008.	Of/ 0
-006 5m (16.4 ft) Terminal Cable; EXCLUDES Option 005 or 008.	Of/ 0
-008 Deletes 12005B I/F to permit connection of system console via 12040D multiplexer; EXCLUDES Option 005 or 006.	-1,000f/\$ -5
-014 Deletes std mem controller; MUST ORDER 12110A/B ECC memory controller (pages 12 and 19).	-2,425f/\$-34f
-015 230V/50 Hz ac power (deletes power cable)	Of/ 0
-022 CS/80 cartridge tape media (EXCLUDES Options 044 & 061)	Of/ 0
-044 Microfloppy disc media for use with 12120A Discs (EXCLUDES Options 022 & 061)	Of/ 0
-061 1600 cpi mag tape media (EXCLUDES Options 022 & 044)	Of/ 0
-150 EXCLUDES Option 014. Preparation Kit for 12120A integrated discs (also deletes 12009A interface)	-1,100f/\$ -6
-151 Preparation Kit for 12121A integrated disc	Of/\$ 0

SPUs for Micro 24, 26, 27, & 29 Systems, Continued

PROD.NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
2487A (2200)	MICRO 27 (A700) SPU w/RTE-A, 512 kB parity memory, async serial & HP-IB interfaces, & 8 av I/O ch in Micro/1000 package with power cable	\$13,100d/\$ 59
-001	Floating point processor w/Scientific & Vector Instr Sets (uses one I/O ch and reduces max (ECC) memory capacity from 8 MB to 6 MB)	4,300f/\$ 9
-005	15m (49 ft) Fiber Optic conn to terminal; EXCLUDES Option 006 or 008	Of/ 0
-006	5m (16.4 ft) Terminal Cable; EXCLUDES Option 005 or 008	Of/ 0
-008	Deletes 12005B I/F to permit connection of system console via 12040D multiplexer; EXCLUDES Option 005 or 006	-1,000f/- \$ 5
-014	Deletes std 512 kB parity mem (must order other A700 mem array cards and 12038x conn (pages 13 and 19).	-2,525f/\$-17
-015	230V/50 Hz power ac (deletes power cable)	Of/ 0
-022	CS/80 cartridge tape media (EXCLUDES Options 044 & 061)	Of/ 0
-044	Microfloppy disc media for use with 12120A Discs (EXCLUDES Options 022 & 061)	Of/ 0
-061	1600 cpi mag tape media (EXCLUDES Options 022 & 044)	Of/ 0
-150	270 kB microfloppy discs Preparation Kit for 12120A integrated discs (also deletes 12009A interface)	-1,100f/\$ -6
-151	Preparation Kit for 12121A integrated disc	Of/\$ 0
2489A (2200)	MICRO 29 (A900) SPU w/RTE-A, 768 kB ECC mem, async serial & HP-IB interfaces, & 7 av I/O ch in Micro/1000 package.	\$24,600d/\$ 89
-005	15m (49 ft) Fiber Optic conn to terminal; EXCLUDES Option 006 or 008	Of/ 0
-006	5m (16.4 ft) Terminal Cable; EXCLUDES Option 005 or 008	Of/ 0
-008	Deletes 12005B I/F to permit connection of system console via 12040D multiplexer; EXCLUDES Option 005 or 006	-1,000f/- \$ 5
-014	Deletes standard 768 kB ECC mem, permitting its replacement with other combinations of 1222xA Memory Array Cards and 12222A/B Memory Connector, WHICH MUST BE ORDERED (see pages 13 and 19).	-4,100f/\$-14 d
-015	230V/50 Hz ac power (deletes power cable)	Of/ 0
-022	CS/80 cartridge tape media (EXCLUDES Options 044 & 061)	Of/ 0
-044	Microfloppy disc media for use with 12120A Discs (EXCLUDES Options 022 & 061)	Of/ 0
-061	1600 cpi mag tape media (EXCLUDES Options 022 & 044)	Of/ 0
-150	Preparation Kit for 12120A integrated discs (also deletes 12009A interface)	-1,100f/\$ -6
-151	Preparation Kit for 12121A	Of/\$ 0
NOTE: Order the following trade-in credit products and options from the Finance and Remarketing Division, Supplying Division C100.		
2489UN	Tradein Credit for purchase of 2489A SPU (must order return option; returned SPU or computer includes cpu and memory controller cards)	On/\$ 0
-601	Return credit for 2196A-D	\$-3,250n/\$ 0
-602	Return credit for 2486A	\$-3,250n/\$ 0
-603	Return credit for 2156A/B	\$-2,750n/\$ 0
-604	Return credit for 2436A/E	\$-2,750n/\$ 0
-605	Return credit for 2186A	\$-1,000n/\$ 0
-701	Return credit for 2197A-D	\$-5,000n/\$ 0
-702	Return credit for 2487A	\$-4,250n/\$ 0
-703	Return credit for 2137A	\$-3,500n/\$ 0
-704	Return credit for 2437A	\$-3,500n/\$ 0
12005BN	Ret credit for 12005B I/F cd	\$ -150n/\$ 0
12156AN	Ret credit for 12156A FPP cd	\$-1,000n/\$ 0
NOTE: For trade-in credit on memory array cards, see page 19, on peripherals, see page 22.		

System Processor Units (SPUs) for Model 26, 27, & 29 Systems

SPUs for Model 26, 27, & 29 Systems, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
MUST ORDER ONE of Connect Options 005, 006, or 008, Media Option 022 or 061, system console, and system disc for all A-Series Systems in Rack Cabinets. (See HP 1000 Configuration Checklist on pages 6 - 10.)		
2196C (2200)	MODEL 26 (A600+) SPU w/RTE-A, 512 kB mem, async serial and HP-IB interfaces, and 16 av I/O chan in 56-in. cabinet w/power cable and extra rack space for user-added equip	\$18,240d/\$ 74
-005	15m (49 ft) Fiber Optic conn to terminal; EXCLUDES Option 006 or 008	Of/ 0
-006	5m (16.4 ft) Terminal Cable; EXCLUDES Option 005 or 008	Of/ 0
-008	Deletes 12005B I/F to permit connection of system console via 12040D multiplexer; EXCLUDES Option 005 or 006	-1,000f/- \$ 5
-010	Credit for system purchased to replace an M-Series sys.	-500f/ 0
-014	Deletes std mem controller; MUST ORDER 12110A/B ECC mem controller (pages 12 and 19)	-2,425f/- \$34
-015	230V/50 Hz ac power (deletes power cable)	Of/ 0
-022	CS/80 cartridge tape media (EXCLUDES Option 061)	Of/ 0
-051	Replaces upper compartment door with trim for installation of mag tape unit or other equipment that uses front-to-rear ventilation	Of/ 0
-053	Lower door with ventilation louvers instead of cutout for 791xR rack mounted disc	Of/ 0
-061	1600 cpi mag tape media (EXCLUDES Option 022)	Of/ 0
-070	Deletes cabinet from SPU to be rack-mounted in 7914ST cabinet. Provides support rails for computer, and adds 12009A I/F to connect to mag tape unit in 7914ST package (NOTES A and B).	-1,700f/ 1 d
2196D (2200)	MODEL 26 (A600+) SPU similar to 2196C, w/same Opt EXCEPT for Opt 051, 053, & 070, but in 21.5-in. cabinet without extra rack space.	\$15,560d/\$ 72
2197C (2200)	MODEL 27 (A700) SPU w/RTE-A and VC+, 512 kB parity mem, hardware floating point processor w/scientific & vector instruction sets, async ser & HP-IB interfaces, & 13 av I/O ch in 56-in. cabinet w/power cable and extra rack space for user-added equip	\$24,000d/\$ 80
-005	15m (49 ft) Fiber Optic conn to terminal; EXCLUDES Option 006 or 008	Of/ 0
-006	5m (16.4 ft) Terminal Cable; EXCLUDES Option 005 or 008	Of/ 0
-008	Deletes 12005B I/F to permit connection of system console via 12040D multiplexer; EXCLUDES Option 005 or 006	-1,000f/- \$ 5
-010	Credit for system purchased to replace an M-Series sys.	-1,000f/ 0
-014	Deletes std 512 kB memory; must order other A700 memory array card(s) & 12038x connector (see pages 13 and 19)	-2,525f/- \$17
-015	230V/50 Hz ac power (deletes power cable)	Of/ 0
-022	CS/80 cartridge tape media (EXCLUDES Option 061)	Of/ 0
-051	Same as for 2196C, above	Of/ 0
-053	Same as for 2196C, above	Of/ 0
-061	1600 cpi mag tape media (EXCLUDES Option 022)	Of/ 0
-070	Same as for 2196C, above (NOTES A and B).	-1,700f/ 1 d
2197D (2200)	MODEL 27 (A700) SPU similar to 2197C, w/same Opt EXCEPT for Opt 051, 053, & 070, but in 21.5-in. cabinet without extra rack space.	\$23,250d/\$ 78

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
2199C (2200)	MODEL 29 (A900) SPU w/RTE-A & VC+, 768 kB ECC mem, cache memory, hardware floating point processor w/scientific & vector instr sets, async serial & HP-IB interfaces, & 13 av I/O ch in 56-in. cabinet w/power cable and extra rack space for user-added equipment.	\$34,000d/\$100 i
-005	15m (49 ft) Fiber Optic conn to terminal; EXCLUDES Option 006 or 008	Of/ 0
-006	5m (16.4 ft) Terminal Cable; EXCLUDES Option 005 or 008	Of/ 0
-008	Deletes 12005B I/F to permit connection of system console via 12040D multiplexer; EXCLUDES Option 005 or 006	-1,000f/- \$ 5
-010	Credit for system purchased to replace an M/E/F-Series system	-2,000f/ 0
-014	Deletes std 768 kB memory; must order other A900 memory array card(s) & 1222x conn (see pages 13 and 19)	-4,100f/- \$14 d
-015	230V/50 Hz ac power (deletes power cable)	Of/ 0
-022	CS/80 cartridge tape media (EXCLUDES Option 061)	Of/ 0
-051	Same as for 2196C, above.	Of/ 0
-053	Same as for 2196C, above.	Of/ 0
-061	1600 cpi mag tape media (EXCLUDES Option 022)	Of/ 0
-070	Same as for 2196C, above (NOTES A & B).	-1,700f/ 1 d
2199D (2200)	MODEL 29 (A900) SPU similar to 2199C, w/same Opt EXCEPT for Opt 051, 053, & 070, but in 21.5-in. cabinet without extra rack space.	\$33,400d/\$ 98 i
NOTE: Order the following trade-in credit products and options from the Finance and Remarketing Division, Supplying Division C100.		
2199UN	Tradein Credit for purchase of 2199C/D SPU (must order return option; returned SPU or computer includes cpu and memory controller cards)	On/\$ 0
-601	Return credit for 2196A-D	\$-4,750n/\$ 0
-602	Return credit for 2486A	\$-4,750n/\$ 0
-603	Return credit for 2156A/B	\$-4,250n/\$ 0
-604	Return credit for 2436A/E	\$-4,250n/\$ 0
-605	Return credit for 2186A	\$-1,750n/\$ 0 n
-701	Return credit for 2197A-D	\$-6,350n/\$ 0
-702	Return credit for 2487A	\$-5,750n/\$ 0
-703	Return credit for 2137A	\$-4,850n/\$ 0
-704	Return credit for 2437A	\$-4,850n/\$ 0
12005BN	Ret credit for 12005B I/F cd	\$ -150n/\$ 0
12156AN	Ret credit for 12156A FPP cd	\$-1,000n/\$ 0
NOTE: For trade-in credit on memory array cards, see page 19, on peripherals, see page 22.		

NOTE A: The 7914ST must be on the same section of the order as the 219xC+070 SPU.

NOTE B: The 7914ST cabinet does not look like the 219xC SPU cabinet. Customers should make a side-by-side comparison before ordering a 7914ST.

A-Series Computers

(All A-Series Computers require interface to a supported system console or other HP system for oper.)

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
RACK MOUNTING COMPUTERS		
2156B (2200)	A600+ COMPUTER with 128 kB* parity memory & 18 av I/O ch	\$ 7,590d/\$ 34
-014	Deletes std mem controller; MUST ORDER other memory controller (see pages 12 & 19).	-1,425f/- \$10
-015	230V/50 Hz ac power	Of/\$ 0
2137A (2200)	A700 COMPUTER with 128 kB* parity memory & 16 av I/O ch	\$ 9,820d/\$ 43
-001	Floating point processor w/scientific & vector instr sets (uses one I/O channel)	4,305f/\$ 8
-014	Deletes std 128 kB memory; must order other A700 memory card(s) & 12038x mem conn. (see pages 13 and 19).	-1,315f/\$ -4
-015	230V/50 Hz ac power	Of/\$ 0
2139A (2200)	A900 COMPUTER w/768 kB ECC mem, cache mem, floating pt processor w/scientific and vector instr sets, and 15 available I/O channels.	\$23,900d/\$ 84
-014	Deletes std 768 kB mem; must order other A900 mem card(s) and 12222x memory conn. (see pages 13 and 19).	-4,100f/\$-14
-015	230V/50 Hz ac power	Of/\$ 0
NOTE: Order the following trade-in credit products and options from the Finance and Remarketing Division, Supplying Division C100.		
2139UN	Tradein Credit for purchase of 2139A computer (must order return option; returned SPU or computer includes cpu and memory controller cards)	On/\$ 0
-801	Return credit for 2196A-D	\$-3,000n/\$ 0
-802	Return credit for 2486A	\$-3,000n/\$ 0
-803	Return credit for 2156A/B	\$-2,500n/\$ 0
-804	Return credit for 2436A/E	\$-2,500n/\$ 0
-805	Return credit for 2186A	\$-875n/\$ 0
-701	Return credit for 2197A-D	\$-4,750n/\$ 0
-702	Return credit for 2487A	\$-4,000n/\$ 0
-703	Return credit for 2137A	\$-3,250n/\$ 0
-704	Return credit for 2437A	\$-3,250n/\$ 0
12005BN	Ret credit for 12005B I/F cd	\$ -150n/\$ 0
12156AN	Ret credit for 12156A FPP cd	\$-1,000n/\$ 0
NOTE: For trade-in credit on memory array cards, see page 19, on peripherals, see page 22.		

HP 1000 MICRO 14 AND MICRO 16 COMPUTERS

NOTE: For rack-mounting Micro 14 or Micro 16 computers, use a 92211L Taboret Cabinet or 92211R Mini Rack Cabinet.		
2424A (2200)	MICRO 14 (A400) COMPUTER w/512 kB parity memory, 4 ser I/O ports, 5 av I/O ch and right to execute RTE-A.	\$ 4,800d/\$ 11
-015	230V/50 Hz ac power	Of/\$ 0
2426E (2200)	MICRO 16 (A600+) COMPUTER w/512 kB parity memory, 4 av I/O ch and right to execute RTE-A.	\$ 5,400d/\$ 44
-015	230V/50 Hz ac power	Of/\$ 0
2426F (2200)	MICRO 16 (A600+) COMPUTER w/1 MB ECC memory, 4 av I/O ch and right to execute RTE-A.	\$ 7,400d/\$ 35
-015	230V/50 Hz ac power	Of/\$ 0

A-Series Computers, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
HP 1000 MICRO/1000 COMPUTERS		
NOTE: For rack-mounting Micro/1000 Computers, use a 29431G Cabinet & 12679C mounting rails. TO ASSURE PROPER AIR FLOW, THE MICRO/1000 COMPUTER MUST BE MOUNTED IN THE UPPER COMPARTMENT OF THE 29431G CABINET.		
2434A (2200)	MICRO 24 (A400) COMPUTER w/512 kB parity memory, 4 serial I/O ports, 13 av I/O ch, & right to execute RTE-A.	\$ 6,900d/\$ 18
-015	230V/50 Hz ac power (deletes power cable)	Of/\$ 0
-151	Preparation Kit for 12120A/12121A Integrated Disc	Of/\$ 0
2436A (2200)	MICRO 26 (A600+) COMPUTER w/128 kB* parity mem & 12 av I/O ch in Micro/1000 package	\$ 5,600d/\$ 27
-014	Deletes std 128 kB memory controller MUST ORDER other memory controller (see pages 12 and 19).	-1,425f/- \$10
-015	230V/50 Hz ac power (deletes power cable)	Of/\$ 0
-151	Preparation Kit for 12120A/12121A Integrated Disc	Of/\$ 0
2436E (2200)	2436A w/512 kB parity memory and right to execute RTE-A.	\$ 6,600d/\$ 51
-014	Deletes std mem controller; MUST ORDER 12110A/B ECC memory controller (see pages 12 and 19).	-2,425f/- \$34
-015	230V/50 Hz ac power (deletes power cable)	Of/\$ 0
-151	Preparation Kit for 12120A/12121A Integrated Disc	Of/\$ 0

*6600
1700
1000
2000
1800*

A-Series Computers, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
HP 1000 MICRO/1000 COMPUTERS, continued	
2437A MICRO 27 (A700) COMPUTER (2200)	\$ 8,800d/\$ 36
-001 Floating point processor w/scientific and vector instruction sets (uses one I/O ch & reduces max. (ECC) mem capacity from 8 MB to 6 MB.	\$ 4,300f/\$ 9
-014 Deletes std 128 kB mem; must order other A700 mem array card(s) and 12038x mem array conn. (see pages 13 and 19).	-1,300f/\$ -4
-015 230V/50 Hz ac power (deletes power cable)	0f/\$ 0
-151 Preparation Kit for 12120A/12121A Integrated Disc	0f/\$ 0
2439A MICRO 29 (A900) COMPUTER (2200)	\$19,800d/\$ 78
-014 Deletes std 768 kB ECC mem, permitting substitution of other combinations of 1222xA Mem Array Cds and 12222A/B Mem Conn, WHICH MUST BE ORDERED (see pages 13 & 19)	-4,100f/\$-14
-015 230V/50 Hz ac power (deletes power cable)	0f/\$ 0
-151 Preparation Kit for 12120A/12121A Integrated Disc	0f/\$ 0
NOTE: Order the following trade-in credit products and options from the Finance and Remarketing Division, Supplying Division C100.	
2439UN Tradein Credit for purchase of 2439A SPU (must order return option; returned SPU or computer includes cpu and memory controller cards)	0n/\$ 0
-601 Return credit for 2196A-D	\$-2,250n/\$ 0
-602 Return credit for 2486A	\$-2,250n/\$ 0
-603 Return credit for 2156A/B	\$-1,750n/\$ 0
-604 Return credit for 2436A/E	\$-1,750n/\$ 0
-605 Return credit for 2186A	\$ -500n/\$ 0
-701 Return credit for 2197A-D	\$-4,000n/\$ 0
-702 Return credit for 2487A	\$-3,250n/\$ 0
-703 Return credit for 2137A	\$-2,500n/\$ 0
-704 Return credit for 2437A	\$ -150n/\$ 0
12005BN Ret credit for 12005B I/F cd	\$-1,000n/\$ 0
12156AN Ret credit for 12156A FPP cd	\$-1,000n/\$ 0
NOTE: For trade-in credit on memory array cards, see page 19, on peripherals, see page 22.	

A-SERIES BOARD COMPUTERS

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
12100A A400 BOARD COMPUTER w/512 kB parity memory & 4 serial I/O ports (one card).	\$ 2,500d/\$ 9
2106BK A600+ BOARD COMPUTER with 128 kB* parity memory (two cards)	\$ 3,410d/ 0
-014 Deletes standard 128 kB memory controller MUST ORDER other memory controller (see pages 12 and 19).	-1,425f/ 0

* The RTE-A Operating System requires at least 256 KB of memory for operation.

A-Series I/O Extenders

See page 12 for ordering guide.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
12025A I/O EXTENDER (12 I/O Chan in Micro/1000 package)	\$ 7,400f/\$ 16
12025B I/O EXTENDER (18 I/O Chan in 20-slot card cage)	\$ 9,400f/\$ 17

A-Series Memory Components

See pages 12 and 13 for ordering guide.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
A600+ MEMORY CONTROLLERS	
(Order from Supplying Division 2200 to replace standard parity memory deleted by 2486A, 2196C/D, 2156B, 2436A/E, or 2106BK Option 014.)	
12102B 512 kB PARITY MEM CONTROLLER	\$ 2,425f/\$ 34
12110A 512 kB ECC MEMORY CONTROLLER	\$ 4,400f/\$ 17
12110B 1 MB ECC MEMORY CONTROLLER	\$ 7,900f/\$ 25

A400/A600+/A700 PARITY MEMORY ARRAY CARDS

(Max. of four memory array cards per system; existing memory must be an integer multiple in megabytes of any added memory array card; a 12038x array connector is also required. -- Order from Supplying Division 5600)

12103C 512 kB PARITY MEM ARRAY CARD	\$ 1,500f/\$ 17
12103D 1 MB PARITY MEMORY ARRAY CD	\$ 2,500f/\$ 35

A600+/A700 ECC MEMORY ARRAY CARDS

(Max. of four memory array cards per system; 12111x ECC Memory array cards must be installed between the memory controller and other ECC or parity memory array cards; existing memory must be an integer multiple in megabytes of any added memory array card; a 1203xA connector is also needed.) Order from Supplying Division 5600.

12111A# 512 kB ECC MEMORY ARRAY CARD	\$ 4,000f/\$ 8
12111B# 1 MB ECC MEMORY ARRAY CARD	\$ 4,500f/\$ 15
12111C# 2 MB ECC MEMORY ARRAY CARD	\$ 8,000f/\$ 23

This requires the 12110A/B ECC Memory Controller in the 2106BK, 2156B, 2196C/D, 2436A/E, or 2486A Computer or SPU, but works with the standard memory controller in the 2137A, 2197C/D, 2426F, 2437A, or 2487A Computer or SPU.

A400/A600+/A700 MEMORY ARRAY CONNECTORS

Order from Supplying Division 2200.

12038A Memory conn to 1 array card	\$ 66f/ 0
12038B Memory conn to 2 array cards	\$ 76f/ 0
12038C Memory conn to 3 array cards	\$ 86f/ 0
12038D Memory conn to 4 array cards	\$ 100f/ 0

A900 ECC MEMORY ARRAY CARDS

(Up to eight memory array cards per system (two maximum in 2439A/2489A Micro 29); up to four 12221A cards or up to five 12220A cards are usable in an SPU or computer with the 12157A Battery Backup System; a 12222x array card connector is also needed.) Order from Supplying Division 5600.

12220A 768 kB ECC MEMORY ARRAY CARD	\$ 4,000f/\$ 14
12220B 1.5 MB ECC MEMORY PACKAGE	\$ 8,000f/\$ 28
12221A 3 MB ECC MEMORY ARRAY CARD	\$12,000f/\$ 17

A900 MEMORY ARRAY CONNECTORS

Order from Supplying Division 2200.

12222A Memory conn to 1 array card	\$ 95f/ 0
12222B Memory conn to 2 array cards	\$ 115f/ 0
12222C Memory conn to 3 array cards	\$ 135f/ 0
12222D Memory conn to 4 array cards	\$ 160f/ 0
12222E Memory conn to 5 array cards	\$ 190f/ 0
12222F Memory conn to 6 array cards	\$ 225f/ 0
12222G Memory conn to 7 array cards	\$ 260f/ 0
12222H Memory conn to 8 array cards	\$ 290f/ 0

NOTE: See page 20 for memory array card return credit products.

A-Series Memory Components, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
MEMORY ARRAY CARD RETURN CREDIT PRODUCTS	
<p>The following return credit products may be ordered to return A600+/A700/A900 memory array cards for credit toward purchase of A900 memory array cards. HP 121xxAN/BN/CN provide credit toward purchase of A900 memory cards of equal or greater capacity as part of an upgrade from an A600+/A700 system to an A900 system. HP 12220SN provides credit toward purchase of 12221A 3 MB memory cards for an A900 system; up to two 12220SNs can be credited toward each 12221A. The 12221A provides 3 MB per card cage slot vs 0.75 MB, freeing slots for applications expansion. Order from the Finance and Remarketing Division, Supplying Division C100.</p>	
12103AN Ret credit for 12103A mem cd	\$ -250n/\$ 0
12103BN Ret credit for 12103B mem cd	\$ -500n/\$ 0
12103CN Ret credit for 12103C mem cd	\$- 750n/\$ 0
12103DN Ret credit for 12103D mem cd	\$-1,250n/\$ 0
12111AN Ret credit for 12111A mem cd	\$-2,000n/\$ 0
12111BN Ret credit for 12111B mem cd	\$-2,250n/\$ 0
12111CN Ret credit for 12111C mem cd	\$-4,000n/\$ 0
12220RN SLOTSAVER Return credit, for Return of 12220A memory card	\$-2,000n/\$ 0
12220SN SLOTSAVER Return credit, for Return of 12220B memory pack	\$-4,000n/\$ 0

A-Series General Plug-Ins and Micro/1000 Vertical Floor Mount

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
12008A PROM STORAGE MODULE (5200)	\$ 710f/\$ 3
12011A EXTENDER CARD for A400, A600+, and A700 CPU cards and all A-Series interfaces	\$ 455f/ 0
12012A PRIORITY JUMPER CARD (5200)	\$ 125f/ 0
12153A WRITABLE CONTROL STORE (4k words) for A700 computers; requires 92045A RTE Micro-programming Package, which has been discontinued.	\$ 2,010f/\$ 15
12154A BATTERY BACKUP CARD for 243xA/248xA (reduces number of available I/O ch by two)	\$ 450f/\$ 5
12155A PROM CONTROL STORE (holds up to 8k words of user-microcoded PROMs for A700 computers)	\$ 710f/\$ 3
12156A FLOATING POINT PROCESSOR (2200) with Scientific and Vector Instruction Sets for A700 systems (is included in 2197A/B/C/D)	\$ 4,310f/\$ 9
12157B BATTERY BACKUP SYSTEM for 2137A, 2139A, 2156A/B, and 219xC/D with serial prefix 2648 or greater.	\$ 195f/\$ 3
NOTE: Effective with Serial Prefix 2648, 213xA, and 2156B computers and 219xC/D SPU's supply 25 kHz without requiring the 12158A 25 KHz Power Module, which has been obsoleted.	
12159A 25 kHz SINE WAVE CARD for (2200) 243xA, 248xA, or 12025A	\$ 400f/\$ 0
12205A CONTROL STORE BOARD for A900 computers; req. 92049A RTE Microprogramming Pkg	\$ 2,500f/\$ 15
40025A VERTICAL FLOOR MOUNT for (2200) Micro/1000 package	\$ 200f/\$ 0

A-Series Interfaces

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
RECOMMENDED TERMINAL INTERFACES	
12005B ASYNC SERIAL INTERFACE w/15m (5200) [49 ft] fiber optic cable	\$ 850f/\$ 5
-001 5m/16.4 ft RFI filtered cable to most 262x terminals instead of std cable.	200f/ 0
-002 5m/16.4 ft RFI filtered cable to HP 2392A, 2625A, or 2628A, or HP Touchscreen terminal (45610B) instead of standard cable.	200f/ 0
-003 5m/16.4 ft Cable to RS-232-C modem instead of std cable.	0f/ 0
-004 5.3m/17.4 ft Cable to 264x Terminal instead of std fiber optic cable.	0f/ 0
-005 Fiber optic interface adapter to most 262x terminals.	200f/ 0
-006 48-pin Connector Kit.	25f/ 0
12040D 8 CHAN ASYNC MULTIPLEXER (5200) with connector panel.	\$ 2,130f/\$ 13
-002 Use w/37214A Systems Modem (deletes connector panel).	-400f/\$ 0
-003 Edge conn kit instead of panel and connecting cable.	-500f/\$ 0

DS/1000-IV MULTIDROP INTERFACES FOR COMMUNICATION WITH HP 1000 SYSTEMS

12092A DATA LINK MASTER INTERFACE (5200) with 5m/16.4 ft cable to 92901A Conn. Box (used with 91732A Data Link software)	\$ 2,250f/\$ 7
-001 Latest F/W ROMs and manual	-1,805f/ 0
12072A DATA LINK SLAVE INTERFACE (5200) with 5m/16.4 ft cable to 92901A Conn. Box (used with 91750A DS/1000-IV software)	\$ 1,420f/\$ 7

DS/1000-IV POINT-TO-POINT INTERFACES FOR COMM WITH HP 1000 SYSTEMS (USED W/91750A DS/1000-IV OR 91790A NS/1000 SOFTWARE)

12007B DS/1000-IV HDLC MODEM I/F TO (5200) HP1000 with 5m/16.4 ft RS-232-C cable	\$ 2,250f/\$ 15
-001 Latest F/W ROMs and manual	-1,800f/ 0
-002 RS-449 Cable instead of RS-232-C Cable	270f/ 0
12044A DS/1000-IV HDLC DIR CONN I/F (5200) TO HP 1000 w/two 5m/16.4 ft direct connect cables and verifier hoods	\$ 2,550f/\$ 10
-001 Latest F/W ROMs and manual	-2,120f/ 0
-002 Deletes cables & loop-back verifier hoods (from second HDLC dir conn interface)	-640f/ 0

DS/1000-IV POINT-TO-POINT INTERFACES FOR COMMUNICATION WITH HP 3000 SYSTEMS (USED W/91750A DS/1000-IV OR 91790A NS/1000 SOFTWARE)

12073A DS/1000-IV BISYNC MODEM I/F (5200) TO HP 3000 with 5m/16.4 ft RS-232-C cable	\$ 2,230f/\$ 10
-001 Latest F/W ROMs and manual	-1,800f/ 0
-002 RS-449 Cable instead of RS-232-C Cable	270f/ 0
12082A DS/1000-IV BISYNC DIR CONN (5200) I/F TO HP 3000 with one 5m (16.4 ft) direct connect cable and verifier hood	\$ 2,550f/\$ 9
-001 Latest F/W ROMs and manual	-2,120f/ 0

OTHER COMMUNICATIONS INTERFACES & DEVELOPMENT PACKAGE

12041B MULTI-USE 8-CH MULTIPLEXER (5200) (used w/94202A, 94204A, 94205A, and 94206A PCIF/1000 Device Handler Software)	\$ 2,675f/\$ 13
12043A MULTI-USE PROGRAMMABLE SERIAL INTERFACE for use (5200) with 91781A RJE/1000-II, 91782A DSN/MRJE-1000, or 91784A PMF/1000 software	\$ 2,325f/\$ 15
-001 RS-449 cable instead of RS-232-C cable	255f/ 0

A-Series Interfaces, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
OTHER COMMUNICATIONS INTERFACES & DEVELOPMENT PACKAGE, continued	
12075A X.25 NETWORK (modem) I/F w/Level-II LAP-B Protocol for comm w/HP 1000, HP 3000, or other systems in a packet switching network. High level network communications with HP 1000 & HP 3000 systems are supported by 91750A DS/1000-IV or 91790A NS/1000 software operating w/91751A X.25 software (required). Latest F/W ROMs and manual RS-449 Cable instead of RS-232-C Cable	\$ 2.030f/\$ 13
-001	-1.330f/ 0
-002	255f/ 0
12076A LAN/1000 Link I/F to IEEE 802.3 Local Area Network. High level LAN communication is supported by 91790A NS/1000 software.	\$ 3.100f/\$ 16
-001	Ethernet conn. cable instead of MAU and AUI cable -500f/ 0
-002	Latest F/W ROMs and manual. -2,800f/ 0
-022	Software on CS/80 cart tape 0f/ 0
-044	Software on microfloppy disc 0f/ 0
-051	Software on 1600 cpi tape 0f/ 0
-241	Deletes MAU and AUI -500f/ 0
12042B PROG SER I/F (PSI) for OEM/End User dev. of comm I/Fs for specific appl., with 5m/16.4 ft RS-232-C cable. Use 24602A Dev. to help w/12042B programming	\$ 2.030d/ 0
-001	RS-449 cable instead of RS-232-C cable 255f/ 0
-002	Edge conn instead of RS-232-C cable -305f/ 0
-003	Deletes Self-Test PROM and Diagnostic Hood -200f/ 0
24602A FIRMWARE DEVELOPMENT PACKAGE (5200) for 12042A/B Prog Ser I/F	\$ 1,000n/ 0
-001	Deletes DDM EPROM and cable -500n/ 0

IEEE 488-1978 INTERFACES

12009A HP-IB INTERFACE w/2m/6.5 ft cable (for up to 14 HP-IB dev conn via 10833x cables)	\$ 1,100f/\$ 6
-001	4m/13 ft cable instead of 2m/6.5 ft cable 35f/ 0
37203L HP-IB EXTENDER CARD for sending HP-IB signals to another 37203A/L Extender up to 1 km/3281 ft away via Belden 9248 or equiv coax cabling (Req. 12009A I/F in A-Series system; HP 248xA Micro 24, 26, 27, or 29 system will also require a 12159A 25 kHz card; not supported in HP 2424A Micro 14 or 2426E/F Micro 26 computer.)	\$ 1,050n/\$ 6
-001	Adds Fiber Optic comm via HP 39200B Duplex Fiber Optic Cable (Usable in all A-Series systems, Microsystems, and computers, because 25 kHz ac is not required for Fiber Optic cable communications). 460n/\$ 11

MAC/1000 INTERFACES AND CABLES

NOTE: The following interfaces work in any A-Series computer (except 2424A or 2426E/F); however, an HP 12159A 25 kHz Sine Wave Card is also required in an HP 248xA Micro 24, 26, 27, or 29 system.	
12060B HIGH-LEVEL ANALOG INPUT CARD w/8 diff. inputs, +/-1.28V to 10.23V fs, data rate to 55,000 channels per second.	\$ 1,795f/\$ 12
-001	Edge connector kit 40f/ 0
-020	Calib S/W on 264x Mini cart. 40f/ 0
-044	Calib S/W on 270 kB Micro-floppy disc 40f/ 0
12060BC 3m/9.8 ft CABLE for 12060B, unterminated at appl. end	\$ 75f/ 0
12061A EXPANSION MULTIPLEXER CARD (adds 32 diff chan to 12060B capacity for a total of 40, Edge connector kit	\$ 895f/\$ 5
-001	50f/ 0

A-Series Interfaces, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
MAC/1000 INTERFACES AND CABLES, continued	
12061AC 3m/9.8 ft CABLE for 12061A, unterminated at appl. end	\$ 325f/ 0
12062A ANALOG OUTPUT CARD, provides four independent bipolar outputs, +/-10.23V fs, 12-bit resolution	\$ 1,295f/\$ 13
-001	Edge connector kit 40f/ 0
-020 & 044	Same as 12060B 50f/ 0
12062AC 3m/9.8 ft CABLE for 12062A, unterminated at appl. end	\$ 75f/ 0
12063A ISOLATED DIGITAL I/O CARD w/16 Opto-isolated inputs & 16 relay-isolated outputs	\$ 1,645f/\$ 6
-001	Edge connector kit 95f/ 0
12063AC 3m/9.8 ft CABLE for 12063A, unterminated at appl. end	\$ 325f/ 0
12064A 68-circuit Screw-Terminal TERMINATION ACCESSORY for 1206xA/B cards and 1206xxC cables	\$ 325f/ 0

MISCELLANEOUS INTERFACES

12006A PARALLEL INTERFACE, 8 or 16 bits, +5V or +12V logic	\$ 740f/\$ 5
12010A BREADBOARD INTERFACE	\$ 660f/ 0
12065A COLOR VIDEO INTERFACE with 3m/9.8 ft cable to 13279B	\$ 1,950f/\$ 16
-001	Dual 3m/9.8 ft RS-232-C cable 75f/ 0

Return Credit Products

The following E/F-Series CPU, memory, interface, and accessory Return Credit Products can be applied to the purchase of 219xC/D or 248x A SPU's or A-Series Computers AT LIST PRICE. All memory, interface, and accessory returns must be accompanied by a CPU return credit. Equipment must be on a support agreement or be qualified to be on a support agreement to be eligible for return.

Order all return credit products from the Finance and Remarketing Division, Supplying Division C100.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
E/F-SERIES MEMORY RETURN CREDITS	
12746HN RETURN CREDIT FOR 12746H	-\$ 100d/ 0
12747HN RETURN CREDIT FOR 12747H	-\$ 250d/ 0
12699HN RETURN CREDIT FOR 12699H	-\$ 350d/ 0
12749HN RETURN CREDIT FOR 12749H	-\$ 750d/ 0
12779HN RETURN CREDIT FOR 12779H	-\$ 100d/ 0
12780HN RETURN CREDIT FOR 12780H	-\$ 480d/ 0
12666HN RETURN CREDIT FOR 12666H	-\$ 400d/ 0

E/F-SERIES INTERFACE RETURN CREDITS

12792AN RETURN CREDIT FOR 12792A with RS-232-C mpser panel	-\$ 300n/ 0
12792BN RETURN CREDIT FOR 12792B with RS-232-C mpser panel	-\$ 300d/ 0
12821AN RETURN CREDIT FOR 12821A	-\$ 75d/ 0
12966AN RETURN CREDIT FOR 12966A	-\$ 100d/ 0
13175BN RETURN CREDIT FOR 13175B	-\$ 75d/ 0

E/F-SERIES I/O EXTENDER RETURN CREDIT

12979BN RETURN CREDIT FOR 12979B with 12898A	-\$1,200d/ 0
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Return Credit Products, Continued

PROD. NO., DESCRIPTION, & OPTIONS		PRICE/BMMX	
RETURN CREDIT ON 79xM/S DISCS			
The following return credit products are orderable for trade-in of 7906M/S discs on various other discs (at list price). The returned discs must be supported under a current HP Maintenance Agreement. The return credit must be ordered as a coordinated delivery on the same section of the order as the disc to which the credit applies.			
7906MN	RETURN CREDIT FOR 7906MR MASTER DISC TOWARD 7907A	\$-3,000n/	0
7906SN	RETURN CREDIT FOR 7906S/SR SLAVE DISC TOWARD 7907A	-2,000f/	0
7906N	RETURN CREDIT FOR 7906H/M/S TOWARD DISC SPECIFIED BY ONE OF THE FOLLOWING OPTIONS	On/	0
-001	Credit toward 7957A Disc	\$ -400n/	0
-002	Credit toward 7958A Disc	\$ -800n/	0
-003	Credit toward 7957A Disc and a 9144A or 35401A CTU	\$-1,000n/	0
-004	Credit toward 7958A Disc and a 9144A or 35401A CTU	\$-1,400n/	0

RETURN CREDIT ON 7945A/7946A DISCS

The following return credit products are orderable by customers who are trading in 7945A or 7946A discs toward the purchase price of new 7958A disc drives. Discs returned for credit must be supported under a current HP Maintenance Agreement. The return credit must be ordered as a coordinated delivery on the same section of the order as the newer disc toward which the credit applies.			
7945AN	RETURN CREDIT FOR 7945A DISC (Maximum of two 7945A's can be returned for each 7958A Disc ordered.)	\$-1,000n/	0

RETURN CREDIT FOR MAG TAPE UNITS (MTUs)

The following return credits are orderable for trade-in of 797x tape drives towards the purchase of new 7978B tape drives.			
7970EN	RETURN CREDIT FOR 7970E	-\$1,000d/	0
7974AN	RETURN CREDIT FOR 7974A	-\$3,000d/	0

E/F-Series System Processor Units (SPUs)

NOTE A: All systems orders must specify coordinated shipment with system console and system disc on the same section of the order as the SPU and must include ONE Connect Option and ONE software Media Option.

NOTE B: For software support, see pages 50 and 54.

PROD. NO., DESCRIPTION, & OPTIONS		PRICE/BMMX	
MODEL 40 (E-SERIES) SPU			
Mag tape is required for installation of any software other than the operating system.			
2176E (2200)	HP 1000 MODEL 40 SPU, with RTE-IVB, 256 kB mem, exp to 2048 kB, & 10 av I/O chan in 56-in steel cabinet.	\$23,500d/\$154	
-005	5m/16.4 ft Cable to most 262x system consoles	Of/	0
-006	5m/16.4 ft Cable to 239xA, 2625A, 2628A, or HP Touch-screen (45610B) sys console	Of/	0
-014	Deletes std memory pkg (must order at least 256 kB of other HP memory (page 23))	-4,320f/	-30
-015	230V/50 Hz ac power	Of/	0
-031	7906M/MR MAC disc cartridge media	1,010f/	6
-033	7925M MAC disc pack media	2,380f/	6
-050	Cabinet adaptation for rack mounting 7906MR+025 disc 2048 kB, & 10 av I/O ch in 56-in steel cabinet.	Of/	0

E/F-Series SPUs, Continued

NOTE A: All systems orders must specify coordinated shipment with system console and system disc on the same section of the order as the SPU.

NOTE B: For software support, see pages 50 and 54.

NOTE C: Software other than the operating system must be installed using a cartridge tape unit in a 791xP/R disc or a mag tape unit.

PROD. NO., DESCRIPTION, & OPTIONS		PRICE/BMMX	
MODEL 60 (E-SERIES) SPU			
MUST ORDER ONE of Connect Options 005 or 006, ONE of Media Options 022, 031, 033, 060, or 061, system console, and system disc. TO SUPPORT THE RTE-6/VM PRIMARY SYSTEM, ALSO ORDER 217xC MEMORY DELETE OPTION 014 AND 512 kB OR MORE MEMORY.			
2178C (2200)	HP 1000 MODEL 60 SPU with RTE-6/VM, 256 kB mem, exp to 2048 kB, & 10 av I/O chan in 56-in steel cabinet.	\$25,250d/\$160	
-005	5m/16.4 ft Cable to most 262x system consoles	Of/	0
-006	5m/16.4 ft Cable to 239xA, 2625A, 2628A, or HP Touch-screen (45610B) sys console	Of/	0
-014	Deletes std memory pkg (must order 512 kB or more memory (page 23) to support RTE-6VM primary system)	-4,320f/	-30
-015	230V/50 Hz ac power	Of/	0
-022	CS/80 cartridge tape media	1,620f/	6
-031	7906M/MR MAC disc cartridge media	1,010f/	6
-033	7925M MAC disc pack media	2,380f/	6
-050	Cabinet adaptation for rack mounting 7906MR+025 disc	Of/	0
-053	Lower door with ventilation louvers instead of cutout for 791xR rack mounted disc	Of/	0
-060	800 cpi mag tape media (CS/80 format)	1,620f/	6
-061	1600 cpi mag tape media (CS/80 format)	1,620f/	6

NOTE: Multiple interfaces can be used to connect discs, but the aggregate data transfer rate cannot exceed the I/O bandwidth of the computer. THIS RESTRICTION MAY PRECLUDE DMA ACCESS VIA TWO DISC INTERFACES AT THE SAME TIME, particularly in HP 1000 E-Series Computers with standard performance memory.

REMARKETED MODEL 60 (E-SERIES) AND 65 (F-SERIES) SPUS

MUST ORDER ONE of Connect Options 005 or 006, ONE of Media Options 022, 031, 033, 060, or 061, system console, and system disc. TO SUPPORT THE RTE-6/VM PRIMARY SYSTEM, ALSO ORDER 217xC MEMORY DELETE OPTION 014 AND 512 kB OR MORE MEMORY.			
2178CR (C100)	Remarketed HP 1000 MODEL 60 SPU with RTE-6/VM, 256 kB mem, exp to 2048 kB, & 10 av I/O chan in 56-in cabinet.	\$21,040n/\$160	
-005	5m/16.4 ft Cable to most 262x system consoles	Of/	0
-006	5m/16.4 ft Cable to 239xA, 2625A, 2628A, or HP Touch-screen (45610B) sys console	Of/	0
-014	Deletes std memory pkg (must order 512 kB or more memory (page 23) to support RTE-6VM primary system)	-3,695f/	-30
-015	230V/50 Hz ac power	Of/	0
-022	CS/80 cartridge tape media	1,380f/	6
-031	7906M/MR MAC disc cartridge media	860f/	6
-033	7925M MAC disc pack media	2,025f/	6
-050	Cabinet adaptation for rack mounting 7906MR+025 disc	Of/	0
-053	Lower door with ventilation louvers instead of cutout for 791xR rack mounted disc	Of/	0
-060	800 cpi mag tape media (CS/80 format)	1,380f/	6
-061	1600 cpi mag tape media (CS/80 format)	1,380f/	6
2179CR (C100)	Remarketed HP 1000 MODEL 65 SPU with RTE-6/VM, 256 kB mem, exp to 2048 kB, 10 av I/O chan in 56-in cabinet, and same options as 2178CR, above.	\$28,700n/\$181	

E/F-Series Computers

NOTE: For the 2109EK E-Series Board Computer and other older HP 1000 products, see page 35.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
E-SERIES COMPUTERS	
2109E# E-SERIES COMPUTER w/64 kB memory, exp to 1.5 MB, and 9 I/O channels	\$11,200d/\$ 97
-003 FAB board instead of FEM bd	0d/ 0
-014 Deletes memory controller and 64 kB of memory (must order other HP memory)	-2,240d/ -16
-015 230V/50 Hz ac power	0f/ 0
2113E# E-SERIES COMPUTER w/128 kB memory Expandable to 2.0 MB, and 14 I/O channels	\$13,850d/\$124
-003 FAB board instead of FEM bd	0d/ 0
-013 64 kB mem instead of 128 kB	-1,280f/ -20
-014 Deletes mem ctrlr, 128 kB of memory, and dyn mapping sys (must order other HP memory)	-3,505f/ -36
-015 230V/50 Hz ac power	0f/ 0
-065 Modification for use in HP 3065 Board Test System	2,780f/ 2

REMARKETED E AND F-SERIES COMPUTERS

2113ER# Remarketed E-SERIES COMPUTER w/128 kB memory, expandable to 2.0 MB, & 14 I/O channels	\$11,200n/\$124
-003 FAB board instead of FEM bd	0d/ 0
-014 Deletes mem ctrlr, 128 kB of memory, and dyn mapping sys (must order other HP memory)	-2,980f/ -36
-015 230V/50 Hz ac power	0f/ 0
-065 Modification for use in HP 3065 Board Test System	2,360f/ 2
2117FR# Remarketed F-SERIES COMPUTER w/128 kB memory, expandable to 2.0 MB, & 14 I/O channels	\$17,750n/\$145
-014 Deletes mem ctrlr, 128 kB of memory, and dyn mapping sys (must order other HP memory)	-2,980f/ -36
-015 230V/50 Hz ac power	0f/ 0

* This product does not comply with FCC or FTZ EMI regulations.

E/F-Series I/O Extender

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
12979C DUAL-PORT I/O EXTENDER (16 additional I/O channels; max. of two per computer)	\$ 6,300f/\$ 20
-001 Changes to meet EMI req. (max. of one 12979C opt 001 I/O Extender per computer or System Processor Unit)	0f/ 0
-015 230V/50 Hz ac power	0f/ 0
-016 RFI certification for 12979C option 015 I/O Extender	0f/ 0
12979BR Remarketed DUAL-PORT I/O EXTENDER (16 additional I/O channels; max. of two per computer)	\$ 5,355f/\$ 16
-015 230V/50 Hz ac power	0f/ 0
12898A DUAL CHANNEL PORT CONTROLLER for 12979B/C.	\$ 375f/\$ 13

E/F-Series Accessories

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
12539C TIME BASE GEN (Uses 1 I/O ch) (5200)	\$ 410f/\$ 3
12539CR Remarketed 12539C (C100)	\$ 340f/\$ 3
12777A PRIORITY JUMPER CARD (5200)	\$ 70f/\$ 0
12791A FIRMWARE EXPANSION MODULE (FEM) (Uses 1 I/O channel) (2200)	\$ 610f/\$ 3
12823A+S00 Firmware-only SSS for Std F-Series firmware (5010)	/ \$ 5s

E/F-Series Accessories, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
12897B DUAL CHANNEL PORT CONTROLLER (2200)	\$ 800f/\$ 10
12897BR Remarketed 12897B (C100)	\$ 680f/\$ 10
12944B POWER FAIL RECOVERY SYSTEM FOR 2109E	\$ 905f/\$ 13
12991B POWER FAIL RECOVERY SYSTEM FOR 2113E OR 2117F	\$ 1,075f/\$ 13
12992B RPL-COMPATIBLE MAC DISC LOADER ROM	\$ 105f/ 0
12992D 7970 MAG TAPE LOADER ROM (2200)	\$ 105f/ 0
12992J CS/80 DISC LOADER ROM (2200)	\$ 105f/ 0
12992L 7974A/7978A/B LOADER ROM (2200)	\$ 105f/ 0
13197A 1k WRITABLE CONTROL STORE (2200)	\$ 2,110f/\$ 15
13306B E-Series FAST FORTRAN PROCESSOR (FFP) for use on FEM or FAB board	\$ 690f/\$ 2
-100 For computers w/serial prefix earlier than 2116.	100f/ 0
13306A+S00 Firmware-only SMS for FFP (5010)	/ \$ 5s

E/F-Series Memory Products

Order from Supplying Division 2200 unless otherwise specified under the product number.

Memory in HP 1000 E-Series Computers or Systems can be changed by ordering Option 014 and the desired memory, selected from the following.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
E-SERIES HIGH PERFORMANCE MEMORY PACKAGES	
12788A 128 kB MEMORY PKG (16k RAMs)	\$ 3,820f/\$ 38
12788AR Remarketed 12788A (C100)	\$ 3,250f/\$ 38
12788BB 256 kB MEMORY PKG (64k RAMs)	\$ 4,520f/\$ 31
12788E 512 kB MEMORY PKG (64k RAMs)	\$ 6,270f/\$ 43
12788ER Remarketed 12788E (C100)	\$ 5,330f/\$ 43
12788F 1024 kB MEM PKG (64k RAMs)	\$10,420f/\$ 62
12788FR Remarketed 12788F (C100)	\$ 8,860f/\$ 62
12788G 1536 kB MEM PKG (64k RAMs)	\$14,520f/\$ 81
12788GR Remarketed 12788G (C100)	\$12,350f/\$ 81
12788H 2048 kB MEM PKG (64k RAMs)	\$18,720f/\$100
12789J 512 kB FC MEM PKG (64k RAMs)	\$ 9,370f/\$ 47
12789K 1024kb FC MEM PKG (64k RAMs)	\$13,660f/\$ 66
12789L 1536kb FC MEM PKG (64k RAMs)	\$20,820f/\$ 89
12789M 2048kb FC MEM PKG (64k RAMs)	\$25,290f/\$108

MEMORY MODULES AND EXPANSION CABLES

12746H 64 kB MEMORY MODULE*	\$ 1,655f/\$ 8
12747H 128 kB MEMORY MODULE*	\$ 2,095f/\$ 12
12747HR Remarketed 12747H (C100)	\$ 1,000f/\$ 12
12699H 256 kB MEMORY MODULE* (5800)	\$ 2,610f/\$ 6
12749H 512 kB MEMORY MODULE* (5800)	\$ 5,205f/\$ 19
12749HD TWENTY 12749H MEM MODULES* (5800)	\$83,250f/\$380
12749HR Remarketed 12749H (C100)	\$ 4,400f/\$ 19
12739G 11-conn Memory Exp cable	\$ 211f/n.a.

* Usable with any M/E/F-Series Computer, but has high performance cycle time only with 2102E/H Memory Controller in E/F-Series Computer. Qualifies as substitute memory in Computer or SPU ordered with Option 014 only if Memory Controller and Memory Protect and Memory Expansion Module(s) are ordered with memory module(s).

E/F-Series Memory Products, Continued

Order from Supplying Division 2200 unless otherwise specified under the product number.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
FAULT CONTROL CHECK BIT ARRAY BOARDS	
12780H 512 KB CHECK BIT ARRAY BOARD	\$ 2,645f/\$ 8
12666H 1.0 MB CHECK BIT ARRAY BOARD (5600)	\$ 3,135f/\$ 4
MEMORY CONTROLLERS (included in 1278xA-M Mem Packs)	
2102B STD PERF MEM CTRLR for E-Ser	\$ 770f/\$ 8
2102E HIGH PERF MEM CONTROLLER	\$ 935f/\$ 8
2102H HIGH PERF FAULT CONTROL MEM	\$ 1,105f/\$ 8
DYNAMIC MAPPING SYSTEMS AND COMPONENTS (included in 2113E Computers and in 2176E and 2178C Systems)	
12731A MEMORY EXPANSION MODULE	\$ 1,115f/\$ 6
12892B MEMORY PROTECT MODULE	\$ 555f/\$ 10
13307B E/F-SERIES DYNAMIC MAPPING INSTRUCTIONS (DMI) for use on FEM or FAB board*	\$ 555f/\$ 2
13307B+S00 FIRMWARE-ONLY SMS FOR (5010) 13307B DYNAMIC MAPPING INSTR	/ \$ 5*

* 13307B Dyn Mapping Instr are now included in all 2109E and 2117E Computers; 13307B will need to be ordered separately only to expand memory of an existing 2109E or 2117F Computer with 64 KB.

E/F-Series Interfaces

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
RECOMMENDED TERMINAL INTERFACES	
12966A BUFFERED ASYNC COMMUNICATIONS INTERFACE, pt-pt, block/char mode, with 15.2m/50 ft EIA Terminal cable	\$ 890f/\$ 3
-002 15.2m/50 ft Cable to U.S. Modem	0f/ 0
-006 Deletes std EIA Ter. cable	-100f/ 0
-105 5m/16.4 ft EMI shld cable to most 262x sys consoles	150f/ 0
-106 5m/16.4 ft EMI shielded cable to 239xA, 2625A, 2628A, or HP Touchscreen (45610B) system console	150f/ 0
12966AR Remarketed 12966A interface with 15.2 m/50 ft EIA terminal cable	\$ 720f/\$ 3
-002 15.2m/50 ft Cable to U.S. Modem	0f/ 0
-006 Deletes std EIA Ter. cable	-85f/ 0
-105 5m/16.4 ft EMI shld cable to most 262x sys consoles	125f/ 0
-106 5m/16.4 ft EMI shielded cable to 239xA, 2625A, 2628A, or HP Touchscreen (45610B) system console	125f/ 0
12792C 8 CHAN ASYNC MULTIPLEXER with connector panel	\$ 2,835f/\$ 10
NOTE: Requires 12897B DCPC in computer and 12898A DCPC in I/O Extender if used in I/O Extender.	
-002 Use w/37214A Systems Modem (deletes connector panel)	-500f/\$ 0
-003 Edge conn kit instead of panel and connecting cable	-600f/\$ 0
MULTIPOINT AND DS/1000-IV MULTIDROP DATA LINK INTERFACES	
12790A MULTIPOINT/DATA LINK I/F with 10.6m/35 ft cable for direct connection (used with 91730A software)	\$ 1,660f/\$ 10
-001 7.6m/25 ft Modem cable instead of std direct conn cable (used w/91750A S/W or for modem conn w/91730A S/W)	0f/ 0
12790A+S00 FIRMWARE-ONLY SMS FOR (5010) 12790A	/ \$10s

E/F-Series Interfaces, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
MULTIPOINT AND DS/1000-IV MULTIDROP DATA LINK INTERFACES, continued	
12830A DATA LINK SLAVE I/F with 5m/16.4 ft cable to 92901A Conn Box (used w/91750A S/W)	\$ 1,220f/\$ 6
DS/1000-IV POINT-TO-POINT INTERFACES FOR COMMUNICATION WITH HP 1000 SYSTEMS (USED W/91750A SOFTWARE)	
12784B DS/1000-IV HDLC MODEM I/F TO HP 1000 with 5m/16.4 ft RS-232-C cable	\$ 1,885f/\$ 10
-001 Latest firmware ROMs only	-1,380f/ 0
-002 RS-449 cable instead of RS-232-C cable	270f/n.a.
12825A DS/1000-IV HDLC DIRECT CONN INTERFACE TO HP 1000 with verifier hoods and two 5m/16.4 ft cables	\$ 2,325f/\$ 10
-001 Latest firmware ROMs only	-1,700f/ 0
-002 Deletes cables & loop-back verifier hoods (from second HDLC dir conn interface)	-640f/ 0
DS/1000-IV POINT-TO-POINT INTERFACES FOR COMMUNICATION WITH HP 3000 SYSTEMS (USED W/91750A SOFTWARE)	
12793B DS/1000-IV BISYNC MODEM I/F TO HP 3000 with 5m/16.4 ft RS-232-C cable	\$ 1,995f/\$ 10
-001 Latest firmware ROMs only	-1,380f/ 0
-002 RS-449 cable instead of RS-232-C cable	270f/ 0
12834A BISYNC DS/1000-IV TO 3000 DIRECT CONN I/F w/5m/16.4 ft cable	\$ 1,995f/\$ 9
-001 Latest firmware ROMs only	-1,380f/ 0
-002 Deletes cable	-200f/ 0
X.25 COMMUNICATIONS INTERFACE	
12250A X.25 NETWORK (modem) I/F w/Level II LAP-B Protocol & 5m/16.4 ft RS-232-C cable for comm w/other systems in a packet switching network. High level network communications w/HP 1000 & HP 3000 Systems are supported by 91750A DS/1000-IV Network Software operating w/91751A X.25 Software (required)	\$ 1,810f/\$ 10
-001 Latest firmware ROMs only	-1,330f/ 0
-002 RS-449 Cable instead of RS-232-C cable	255f/ 0
PROGRAMMABLE SERIAL INTERFACE AND DEVELOPMENT PACKAGE	
12826B PROGRAMMABLE SERIAL I/F for OEM/End User development of communications interfaces for specific applications. Includes 5m/16.4 ft RS-232-C cable. 24602A PSI Firmware Development Package is a strongly recommended aid for the programming of firmware for the 12826B.	\$ 1,770f/n.a.
-001 RS-449 cable instead of RS-232-C cable	255f/n.a.
-002 Edge connector instead of RS-232-C cable	-305f/n.a.
-003 Deletes Self-Test PROM and Diagnostic Hood	-200f/n.a.
24602A FIRMWARE DEVELOPMENT PACKAGE (5200) for 12826B Prog. Serial I/F	\$ 1,000f/n.a.
-001 Deletes DDM EPROM and cable	-500f/n.a.
OTHER DATA COMMUNICATIONS INTERFACES	
12260A MULTI-USE PROGRAMMABLE SERIAL INTERFACE for use with 91781A RJE/1000-II, 91782A DSN/MRJE-1000, or 91784A PMF/1000 software	\$ 1,995f/\$ 10
-001 RS-449 cable instead of RS-232-C cable	255f/ 0

E/F-Series Interfaces, Continued

PROD.NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
OTHER DATA COMMUNICATIONS INTERFACES, continued	
12531C TELEPRINTER character mode, (5200) current loop INTERFACE	\$ 495f/\$ 3
-001 7.6m/25 ft EIA cable	60f/ 0
-002 7.6m/25 ft U.S. modem cable	60f/ 0
12531D TERMINAL character mode, (5200) current loop INTERFACE	\$ 390f/\$ 3
-001 7.6m/25 ft EIA cable	58f/ 0
-002 7.6m/25 ft U.S. Modem cable	58f/ 0
-004 15.2m/50 ft cable to 264x Terminal	58f/ 0
12618A SYNC COMM I/F (req 2 I/O ch) (5200)	\$ 1,270f/\$ 12
12987A SYNC COMM INTERFACE (5200)	\$ 1,380f/\$ 8
12988A ASYNC COMM INTERFACE (5200)	\$ 1,060f/\$ 6

HP-IB INTERFACES AND HP-IB EXTENDER

12821A HP-IB INTERFACE to disc or printer w/3.69m/12 ft cable (5200)	\$ 930f/\$ 6
-001 Deletes ICD Loader ROM	0f/ 0
59310B HP-IB INTERFACE with 3.7m/12 ft cable (for up to 14 HP-IB devices connected via 10833x cables) (5200)	\$ 790f/\$ 6
-001 2m/6.5 ft cable instead of 3.7m/12 ft cable	0f/ 0
37203A HP-IB EXTENDER for transmission of HP-IB signals to another 37203A Extender or a 37203L A-Series HP-IB Extender Card up to 1 km/3281 ft away via Belden 9248 or equivalent coaxial cable. (37203A is a stand-alone product that requires 12821A or 59310B interface.) (1400)	\$ 1,400n/\$ 6
-001 Adds Fiber optic comm via HP 39200B Duplex Fiber Optic Cable	470n/\$ 7

MAC DISC INTERFACE

13175BR Remarketed 13175B MULTI-ACCESS CONTROLLER DISC INTERFACE (C100)	\$ 670f/\$ 6
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GENERAL-PURPOSE INTERFACES

12551B 16-BIT RELAY OUTPUT REGISTER (5200)	\$ 735f/\$ 2
-001 Adds read-back	30f/ 2
12554A 16-BIT DUPLEX REGISTER, positive I/O voltage (5200)	\$ 585f/\$ 3
-001 Negative I/O voltage	0f/ 0
12556B 40-BIT OUTPUT REGISTER, positive-true logic (5200)	\$ 940f/\$ 6
-001 Cable to 5050/562 printer	225f/n.a.
-002 Negative-true logic	0f/ 0
12566C MICROCIRCUIT INTERFACE with jumper-sel. logic sense (5200)	\$ 555f/\$ 2
-001 24-pin conn w/I/O via a single 16-bit bi-directional data bus	0f/ 0
12597A 8-BIT DUPLEX REGISTER, pos I/O voltage (5200)	\$ 510f/\$ 2
-001 Negative I/O voltage	0f/ 0
-002 Cable to 2748B Punched Tape Reader (obsolete product)	105f/n.a.
-005 Cable to 2895B Tape Punch	105f/n.a.
12620A BREADBOARD INTERFACE (usable as RTE priv interrupt fence) (5200)	\$ 225f/\$ 3
12930A DUAL-CHAN UNIV INTERFACE, differential input (5200)	\$ 1,150f/\$ 3
-001 Ground-true, pos false TTL	0f/ 0
-002 Pos-true, ground false TTL	0f/ 0
91200B TV INTERFACE (not supported under Graphics/1000-II) (5200)	\$ 2,130f/\$ 18
-001 7.6m/25 ft cable to B&W TV monitor	160f/n.a.
-003 7.6m/25 ft cable to color TV monitor (from three 91200Bs)	375f/n.a.

CRT Display Terminals

NOTE: See pages 6 and 8 for information on interfacing terminals to HP 1000 A-Series computers.

PROD.NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
POINT-TO-POINT TERMINALS	
2392A DISPLAY TERMINAL, 1920 cps, (D300) USASCII keyboard, plus built-in tilt and swivel	\$ 1,375d/\$ 10
-015 230V/50 Hz ac power	0f/ 0
-049 Adds ANSI X3.64 Emulation	0f/ 0
-092 Adds RS-232 Printer port (EXCLUDES OPTION 093)	200f/ 0
-093 Adds Centronics Printer port (EXCLUDES OPTION 092)	200f/ 0
-101 Swedish keyboard*	0f/ 0
-102 Norwegian keyboard*	0f/ 0
-103 French keyboard*	0f/ 0
-104 German keyboard*	0f/ 0
-105 United Kingdom keyboard*	0f/ 0
-106 Spanish keyboard*	0f/ 0
-107 French-Canadian keyboard*	0f/ 0
-108 English-Canadian keyboard*	0f/ 0
-109 Italian keyboard*	0f/ 0
-110 Dutch keyboard*	0f/ 0
-111 Finnish keyboard*	0f/ 0
-112 Danish keyboard*	0f/ 0
-113 Swiss-German keyboard*	0f/ 0
-114 Swiss-French keyboard*	0f/ 0
-115 Latin American keyboard*	0f/ 0
-116 Flemish keyboard*	0f/ 0
-160 Adds display memory	200f/ 0
2393A GRAPHICS TERMINAL, 1920 cps, (D300) USASCII keyboard, plus built-in tilt and swivel	\$ 2,095d/\$ 8
-015 Monitor for use outside U.S. (EXCLUDES OPTION 060)	0f/ 0
-046 Adds Port for HP-IB device (EXCLUDES OPTIONS 092 & 093)	200f/ 0
-049 Adds ANSI X3.64 Emulation	0f/ 0
-060 Deletes monitor, permitting replacement w/other Monitor (EXCLUDES OPTION 015)	-150f/ 0
-092 Adds RS-232-C Printer port (EXCLUDES OPTIONS 046 & 093)	200f/ 0
-093 Adds Centronics Printer port (EXCLUDES OPTIONS 046 & 092)	200f/ 0
-101-116 Same as for 2392A, above.	0f/ 0
2397A COLOR GRAPHICS TERMINAL, (D300) 1920 cps, USASCII keyboard, built-in tilt and swivel	\$ 3,295d/\$10w
-015 Monitor for use outside U.S. (EXCLUDES OPTION 060)	0f/ 0
-046 Adds Port for HP-IB device (EXCLUDES OPTIONS 092 & 093)	200f/ 0
-049 Adds ANSI X3.64 Emulation	0f/ 0
-060 Deletes monitor, permitting replacement w/13279B Monitor; also requires 40242R cable. (EXCLUDES OPTION 015)	-500f/ 0
-092 Adds RS-232 Printer port (EXCLUDES OPTIONS 046 & 093)	200f/ 0
-093 Adds Centronics Printer port (EXCLUDES OPTIONS 046 & 092)	200f/ 0
-101-116 Same as for 2392A terminal, above.	0f/ 0
13279B 19-in RGB COLOR MONITOR for (4000) 2397A+060. Must order opt 035 or 065	\$ 6,300d/\$121
-035 Short-persistence phosphor	0f/ 0
-065 Long-persistence phosphor	100f/ 0
40242R 0.4m/1.5 ft RGB Video Cable for conn. of 13279B Monitor	\$ 40f/\$ 0
40242Y 5m/16.4 ft. CABLE to connect (D300) 239xA Terminal or 724x5A Vectra PC to the On-Board I/O multiplexer on A400 CPU	\$ 95f/\$ 0
40242M 5m/16.4 ft. CABLE to connect (D300) 239xA Terminal to 12040C/D multiplexer or modem to the On-Board I/O multiplexer on the A400 CPU	\$ 95f/\$ 0
72425A_ MODEL 25 VECTRA PC#	\$ 3,099n/\$21w
72445A_ MODEL 45 VECTRA PC#	\$ 3,249n/\$21w
* Order from Supplying Div 6010; also requires monitor, adapters, serial interface, & Vectra S/W.	

* This option replaces USASCII keyboard.

CRT Display Terminals, Continued

NOTE: See pages 6 and 8 for interfacing information.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
POINT-TO-POINT TERMINALS, Continued	
VECTRA Monitor-Adapter Choices (Order all from Supplying Div. D700)	
35731A 12-in. MONOCHROME MONITOR & 45981A MULTIMODE VIDEO ADAPTER	\$ 325n/\$ 3 \$ 325n/\$ 0
35741A 12-in. COLOR MONITOR, 45981A MULTIMODE VIDEO ADAPTER, & 45984A COLOR ADAPTER	\$ 1,195n/\$ 3 \$ 325n/\$ 0 \$ 50n/\$ 0
35743A ENHANCED GRAPHICS DISPLAY & 45983A ENHANCED GRAPHICS ADAPTER	\$ 845n/\$ 4w \$ 695n/\$ 0
VECTRA Serial Interface Choices	
24540A SERIAL-PARALLEL INTERFACE or 24541A DUAL SERIAL INTERFACE	\$ 150n/\$ 0 \$ 220n/\$ 0
24542M 3m/9.8 ft. CABLE for connec- (D700) tion of 724x5A Vectra PC to 12040C/D or 12792C mpxer	\$ 55n/\$ 0
Required VECTRA software	
45951A VECTRA DISC OPER. SYSTEM & 68333F ADVANCELINK 2392 COMM S/W	\$ 85n/\$ 0 \$ 295n/\$ 0
NOTE: International versions of the Vectra PC are ordered as 724x5AB through 724x5AZ. See HP Corporate Price List for details.	

Auxiliary Printers for 239x and 262x Terminals

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
2225C THINKJET PRINTER, 150 cps, (D700) conn. to 239xA+093 via 40242D cable.	\$ 495n/\$ 6w
2225D THINKJET PRINTER, 150 cps, (D700) conn. to 239xA+092 via 40242G cable; to 262xA or 2624B terminal via 13242G cable.	\$ 495n/\$ 6w
NOTE: International versions of the ThinkJet Printer are ordered as the 2225xB through 2225xY. See the HP corporate Price List for details.	
2671G (thermal) GRAPHICS PRINTER, (5400) w/std conn to HP-IB port of 2393A+046, 2397A+046, 2625A*+026, 523, 2628A*+026, 523, or 45610B* terminal via 10833A/B/C cable; for other conn. see options 040 and 042, below.	\$ 1,740d/\$ 15
-040 RS-232-C interface conn. to 239xA+092 via 40242G cable, to 262xA*/B* or 45610B* via 13242G cable.	Of/ 0
-042 Centronics interface conn to 239xA+093 via 40242D cable	Of/ 0
2673A INTELLIGENT (thermal) (5400) GRAPHICS PRINTER, 120 cps, 40/80/132 col; same options and conn to same terminals as 2671G, above	\$ 2,240d/\$ 18
2932A GENERAL-PURPOSE PRINTER, std conn. to RS-232 port of terminals is via conn listed in 2671A Option 040, above; for other conn, see options 042 and 046, below.	\$ 2,595n/\$ 21
-042 Centronics interface conn to 239xA+093 via 40242D cable	50n/ 0
-046 HP-IB interface conn. to HP-IB port of 2393A+046, 2397A+046, 2625A*+026, 523, 2628A*+026, 523, or 45610B* via 10833A/B/C cable.	150n/ 0

Auxiliary Printers for 239x and 262x Terminals, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
2934A OFFICE PRINTER, 200/67/40 cps, conn. to RS-232 port of 239xA+092 terminals is via 40242G cable, to 262xA*/B* or 45610B* terminal; conn. is via 13242G cable; for other conn, see options 042 and 046, below.	\$ 2,995n/\$ 24
-042 Centronics interface conn to 239xA+093 via 40242D cable	50n/ 0
-046 HP-IB interface conn. to HP-IB port of 2393A+046, 2397A+046, 2625A*+026, 523, 2628A*+026, 523, or 45610B* via 10833A/B/C cable.	150n/ 0

Bar Code Readers

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
39800A PROGRAMMABLE BAR CODE READER (0500) (Req. 1/8 of 12040D Mpxer & 13242Y cable or 12005B+002 I/F; connection to system can also be eavesdrop, with terminal connecting to Port 2 of 39800A as if it were a multiplexer panel conn.)	\$ 945d/\$ 6
-001 UPC/EAN/JAN code instead of industrial 2 of 5 code	Of/ 0
-002 Codabar code instead of industrial 2 of 5 code	Of/ 0
-210 100V ac power	Of/ 0
-222 220V ac power	Of/ 0
-224 240V ac power	Of/ 0
-320 High resolution wand instead of standard wand	Of/ 0
-400 Std industrial bar code wand	Of/ 0
-420 High reso ind bar code wand	Of/ 0
-610 Mounting kit	30f/ 0
39801A NON-PROGRAMMABLE BAR CODE (0500) READER (Same requirements and options as 39800A.)	\$ 835d/\$ 6
92911A BAR CODE READER for inter- (6300) facing via 2623A*, 2624B, 2626A* or 2627A*; reader connects between keyboard and display.	\$ 650d/\$ 4
-053 High reso bar code wand	Of/ 0
-054 Std industrial bar code wand	130f/ 0
-055 High reso ind bar code wand	130f/ 0
-060 Codabar code instead of ind	Of/ 0
92915A BAR CODE READER for inter- (6300) facing via 2392A or 45610B*; reader connects between key- board and display.	\$ 590d/\$ 3
92916A BAR CODE READER for HP HIL (6300) interfacing to 2393A, 2397A, and to Vectra and Vectra Industrial PCs; connects between keyboard & display unit or PC.	\$ 590d/\$ 3

* Identifies a discontinued product, listed here
for reference only.

Industrial Terminals

NOTE: See page 8 for interfacing information.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
72411A VECTRA INDUSTRIAL PC (also (2200) requires display, adapter, serial interface, and Vectra software, listed below).	\$ 6,295n/\$33w
35745A Industrial Enhanced Graphics (2200) Display (requires 45983A)	\$ 1,495n/\$ 7w
45983A# Enhanced Graphics Adapter	\$ 695n/\$ 0
24540A# Serial-Parallel Interface OR	\$ 150n/\$ 0
24541A# Dual Serial Interface	\$ 220n/\$ 0
45951A# Vectra Disc Oper. System AND	\$ 85n/\$ 0
68333F# AdvanceLink 2392 comm. S/W	\$ 295n/\$ 0
12131A Keyboard Rack Mounting Kit (2200) for Vectra Industrial PC	\$ 250n/\$ 0
* Order from Supplying Div. D700.	

Industrial Terminals, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC	
3081A (6300)	INDUSTRIAL WORKSTATION TERMINAL	\$ 890d/\$ 7	i
-004	Alphanumeric membrane keybd	115f/ 0	
-020	Mounting bracket	95f/ 0	
-052	12MI Office Wand. Med resolution bar code reader wand*	160f/ 4	
-053	6MI Office Wand. High resolution bar code reader wand*	160f/ 4	
-054	15MI Indus. Wand. Low resolution bar code reader wand* for harsh environments.	290f/ 7	
-055	7MI Indus. Wand. High resolution bar code reader wand* for harsh environments.	290f/ 7	
-056	6MI Slot Reader. High res. bar code reader* for badges or edge-coded documents.	315f/ 7	
-057	15MI Slot Reader. Low res. bar code reader* for badges or edge-coded documents	315f/ 7	
* 3081A Opt 05x Bar Code Readers read interleaved 2 out of 5 (USD1) and 3 of 9 (USD3) codes			
40242X (A500)	5m/16.4 ft RS-232-C CABLE, 12040D/12792C mpixer ch to 92922A adapter port	\$ 95n/ 0	n n n
40242Y (A500)	5m/16.4 ft RS-232-C CABLE, 12040D/12792C mpixer ch to 92923A adapter	\$ 95n/ 0	n n n
92179H (A500)	CUT-TO-LENGTH CABLE to connect 3081A to 92922A or 92923A, lengths 50-120m/ 164-394 ft per channel	\$1.00/metre	n n n
5061-3858 (A500)	CONNECTOR KIT for 3081A -to-92922A/92923A Adapter (two required for each cut-to-length 3081A-to-9292xA cable)	\$ 75f/ 0	n n n
92922A (6300)	FOUR-CHANNEL ADAPTER, RS-232 to HP 3081A current loop, including four conn. kits	\$ 945f/\$ 6	n n
-015	220V ac power	0f/\$ 0	
92923A (8300)	SINGLE-CHAN ADAPTER, RS-232 to HP 3081A current loop	\$ 325f/\$ 3	n n
-015	220V ac power	0f/\$ 0	

Printers and Accessories

NOTE: See page 9 for interfacing information.

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
DOT-MATRIX IMPACT PRINTERS & ACCESSORIES		
2563B (4600)	LINE PRINTER, 233-300 LPM, 132 col, 128 char set, with quietized enclosure stand, and passive paper stacker	\$ 7,350d/\$ 42
-001	Line drawing, math and block character sets	160f/ 0
-002	Katakana char instead of std	0f/ 0
-003	High density OCR char set	160f/ 0
-004	High den Roman character set	160f/ 0
-005	High den Roman Italics char	160f/ 0
-006	High den Katakana char set	160f/ 0
-008	3 of 9, Industrial, Interleaved 2 of 5, and UPC/EAN bar codes	210f/ 0
-009	12/13.3 cpi Roman8 Char set	160f/ 0
-012	12/15 cpi Roman8 Char set	160f/ 0
-013	13.3/15 cpi Roman8 Char set	160f/ 0
-015	220V ac power	0f/ 0
-016	100V ac power	0f/ 0
-017	240V ac power	0f/ 0
-022	Vector-raster graphics conv. with 128 kB memory	1,570f/ 0
-023	Vector-raster graphics conv. with 512 kB memory	3,145f/ 0
-024	HP Label Card	2,120f/ 0
-030	Line dwg & Arabic char set	160f/ 0
-031	High density Arabic char set	160f/ 0
-032	Line dwg & Turkish char set	160f/ 0
-033	High density Turkish char	160f/ 0
-034	Line dwg & Greek char set	160f/ 0
-035	High density Greek char set	160f/ 0
-036	Line dwg & Hebrew8 char set	160f/ 0
-037	High density Hebrew8 char	160f/ 0
-038	Line dwg & Hebrew7 char set	160f/ 0
-039	High density Hebrew7 char	160f/ 0
-049	RS-232-C interface to 12040D or 12792C multiplexer chan.	100f/ 0

Printers and Accessories, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
DOT-MATRIX IMPACT PRINTERS & ACCESSORIES, continued		
2563B	LINE PRINTER, continued	
-068	Pack of three ribbons	82f/ 0
-100	Parallel diff I/F (emulates 2608A Opt 210 printer; req 26099A E/F-Series interface)	790f/ 0
-114	Deletes quietized stand and passive paper stacker, leaving desktop printer	-1,570f/ 0
-210	E/F-Series Subsystem (req 12821A+001 interface)	430f/ 0
-214	A-Series Subsystem (requires 1/2 of 12009A interface; max. of two 256xA+214 printers per 12009A I/F)	430f/ 0
-510	Extended capabilities package (Opt 004, 005, 008, and 068)	545f/ 0
-U02	Additional Monthly Sup Chg for 45-67 print hours/month	/\$ 16
-U03	Additional Monthly Sup Chg for 68-88 print hours/month	/\$ 34
-U04	Additional Monthly Sup Chg for 89-132 print hours/month	/\$ 66
2564B (4600)	LINE PRINTER, 480-600 LPM, 132 col, 128 char set, with quietized enclosure stand and passive paper stacker	\$12,445d/\$ 75
-U63	2563A Tradeup credit	-1,500f/ 0
-001	Line drawing, math and block character sets	160f/ 0
-002	Katakana char instead of std	0f/ 0
-003	High density OCR char set	160f/ 0
-004	High den Roman character set	160f/ 0
-005	High den Roman Italics char	160f/ 0
-006	High den Katakana char set	160f/ 0
-008	3 of 9, Industrial, Interleaved 2 of 5, and UPC/EAN bar codes	210f/ 0
-009	12/13.3 cpi Roman8 Char set	160f/ 0
-012	12/15 cpi Roman8 Char set	160f/ 0
-013	13.3/15 cpi Roman8 Char set	160f/ 0
-015	220V ac power	0f/ 0
-016	100V ac power	0f/ 0
-017	240V ac power	0f/ 0
-022	Vector-raster graphics conv. with 128 kB memory	1,570f/ 0
-023	Vector-raster graphics conv. with 512 kB memory	3,145f/ 0
-024	HP Label Card	2,120f/ 0
-030	Line dwg & Arabic char set	160f/ 0
-031	High density Arabic char set	160f/ 0
-032	Line dwg & Turkish char set	160f/ 0
-033	High density Turkish char	160f/ 0
-034	Line dwg & Greek char set	160f/ 0
-035	High density Greek char set	160f/ 0
-036	Line dwg & Hebrew8 char set	160f/ 0
-037	High density Hebrew8 char	160f/ 0
-038	Line dwg & Hebrew7 char set	160f/ 0
-039	High density Hebrew7 char	160f/ 0
-049	RS-232-C interface to 12040D or 12792C multiplexer chan.	205f/ 0
-068	Pack of three ribbons	82f/ 0
-114	Deletes passive stacker and substitutes non-quietized cabinet for quietized one.	-1,450f/ 0
-210	E/F-Series Subsystem (req 12821A+001 interface)	535f/ 0
-214	A-Series Subsystem (requires 1/2 of 12009A interface; max. of two 256xA+214 printers per 12009A I/F)	535f/ 0
-510	Extended capabilities package (Opt 004, 005, 008, and 068)	545f/ 0
-U02	Additional Monthly Sup Chg for 71-129 print hours/month	/\$ 64
-U03	Additional Monthly Sup Chg for 130-240 print hrs/month	/\$152
2566B (4600)	LINE PRINTER, 720-880 LPM, 132 col, 128 char set	\$21,766d/\$175
-001	Line drawing, math and block character sets	160f/ 0
-002	Katakana char instead of std	0f/ 0
-003	High density OCR char set	160f/ 0
-004	High den Roman character set	160f/ 0
-005	High den Roman Italics char	160f/ 0
-006	High den Katakana char set	160f/ 0
-008	3 of 9, Industrial, Interleaved 2 of 5, and UPC/EAN bar codes	210f/ 0
-009	12/13.3 cpi Roman8 Char set	160f/ 0
-012	12/15 cpi Roman8 Char set	160f/ 0
-013	13.3/15 cpi Roman8 Char set	160f/ 0
-015	220V ac power	0f/ 0
-016	100V ac power	0f/ 0
-017	240V ac power	0f/ 0

Printers and Accessories, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMM
DOT-MATRIX IMPACT PRINTERS & ACCESSORIES, continued		
2566B	LINE PRINTER, continued	
-021	Extended graphics for graphics print speed to 100 in/min. and compressed & double height characters.	2,000f/ 0
-022	Vector-raster graphics conv. with 128 kB memory	1,570f/ 0
-023	Vector-raster graphics conv. with 512 kB memory	3,145f/ 0
-024	HP Label Card	2,120f/ 0
-030	Line dwg & Arabic char set	160f/ 0
-031	High density Arabic char set	160f/ 0
-032	Line dwg & Turkish char set	160f/ 0
-033	High density Turkish char set	160f/ 0
-034	Line dwg & Greek char set	160f/ 0
-035	High density Greek char set	160f/ 0
-036	Line dwg & Hebrew8 char set	160f/ 0
-037	High density Hebrew8 char set	160f/ 0
-038	Line dwg & Hebrew7 char set	160f/ 0
-039	High density Hebrew7 char set	160f/ 0
-049	RS-232-C interface to 12040D or 12792C multiplexer chan.	325f/ 0
-115	Paper stacker	370f/ 0
-210	E/F-Series Subsystem (req 12821A+001 interface).	535f/ 0
-214	A-Series Subsystem (requires 1/2 of 12009A interface; max. of two 256xA+214 printers per 12009A I/F)	535f/ 0
-500	Extended capabilities package (Opt 004, 005, and 115)	525f/ 0
-U02	Additional Monthly Sup Chg for 105-187 print hrs/month	/ 117
-U03	Additional Monthly Sup Chg for 188-360 print hrs/month	/ 346
2932A (5400)	GENERAL-PURPOSE PRINTER, 200 cps, 132 col, 128 char set, and line drawing & math sets	\$ 2,595n/\$ 21
-046	HP-IB Interface instead of RS-232-C interface	150n/ 0
-U02	Additional support charge for 3,000-12,000 pages per month.	/\$ 11
2934A (5400)	OFFICE PRINTER, 200/67/40 cps, 132 col, 128 char set and bar code and large char capabilities.	\$ 2,995n/\$ 24
-046	Same as for 2932A, above	150f/ 0
-U02	Additional support charge for 3,000-12,000 pages per month.	/\$ 8
29340S (5400)	SHEET FEEDER for 2934A Office Printer	\$ 395n/\$ 3
92214P (A500)	PRINTER/PLOTTER STAND for 2932A or 2934A Printer	\$ 275n/ 0
FONT CARTRIDGES FOR 2934A (A500)		
92188A	Courier 10 typefont	\$ 100n/ 0
92188B	Courier 12 typefont	\$ 100n/ 0
92188E	Helvetica typefont	\$ 100n/ 0
92188G	OCR-A typefont	\$ 100n/ 0
92188H	Light Italic typefont	\$ 100n/ 0
92188J	Italic 12 typefont	\$ 100n/ 0
92188K	Orator 12 typefont	\$ 100n/ 0
92188M	Prestige Pica 10 typefont	\$ 100n/ 0
92188N	Prestige Elite 12 typefont	\$ 100n/ 0
92188R	Letter Gothic 12 typefont	\$ 100n/ 0
92188T	OCR-B typefont	\$ 100n/ 0
92188U	Arabic typefont	\$ 100n/ 0
92188V	Greek typefont	\$ 100n/ 0
92188W	Turkish typefont	\$ 100n/ 0
92188X	Hebrew7 typefont	\$ 100n/ 0
92188Y	Hebrew8 typefont	\$ 100n/ 0

INKJET PRINTERS

NOTE: InkJet Printers are NOT supported in HP 1000 E/F-Series systems.

NOTE: Changes of printer functions are controlled for these printers by escape sequences in the character stream output to the printer.

2225D (D700)	THINKJET PRINTER, 150 cps, with RS-232-C interface	\$ 495n/\$ 6w
2227A (D700)	QUIETJET PLUS PRINTER, 160 cps x 132 col, with RS-232-C and Centronics interfaces	\$ 799n/\$ 6w
2228A (D700)	QUIETJET PRINTER, 160 cps x 80 col, with RS-232-C and Centronics interfaces	\$ 599n/\$ 6w

Printers and Accessories, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMM
LASERJET PRINTERS & ACCESSORIES		
NOTE: LaserJet Printers are NOT supported in HP1000 E/F-Series systems.		
NOTE: Changes of printer functions are controlled for these printers by escape sequences in the character stream output to the printer.		
2686A (D700)	LASERJET PRINTER, 80 col x 62 lines/page (portrait) or 106 col x 48 lines/page (landscape), up to 8 pages/min, 115V/60 Hz.	\$ 2,995n/\$47w
-300	Laserjet Plus Enhancement	1,000n/\$ 5w
-U02	Add 1 Monthly Sup Chg for 4,000 to 8,000 pages/month	/160w
-U03	Add 1 Monthly Sup Chg for 8,000 to 12,000 pages/month	/378w
2686AB	LASERJET PRINTER, 220V/50 Hz	\$ 3,150n/\$47w
2686AU	LASERJET PRINTER, 240V/50 Hz	\$ 3,150n/\$47w
FONT CARTRIDGES FOR LASERJET (D700)		
92286A	Courier & Line Printer fonts	\$ 150n/ 0
92286B	Proportional Space typefont	\$ 225n/ 0
92286C	International 1 typefont	\$ 150n/ 0
92286D	Prestige Elite typefont	\$ 150n/ 0
92286E	Letter Gothic typefont	\$ 150n/ 0
92286F	TMS Proportional 2 typefont	\$ 250n/ 0
92286G	Prestige Elite Legal 12 font	\$ 150n/ 0
92286H	Courier Legal 10 typefont	\$ 150n/ 0
92286J	Math Elite typefont	\$ 250n/ 0
92286K	Math Times Roman typefont	\$ 250n/ 0
92286L	Courier 2 typefont	\$ 250n/ 0
92286M	Prestige Elite portrait and landscape typefont	\$ 250n/ 0
92286N	Letter Gothic portrait and landscape typefont	\$ 250n/ 0
92286P	Times Roman 10 portrait and landscape typefont	\$ 250n/ 0
92286Q	Courier portrait & landscape & Letter Gothic portait fonts	\$ 250n/ 0
92286R	Presentations 1 typefont	\$ 330n/ 0
92286T	Tax 1 typefont	\$ 250n/ 0
92286U	Forms (portrait) typefont	\$ 250n/ 0
92286V	Forms (landscape) typefont	\$ 250n/ 0
92286W	3-of-9/OCR-A (bar code) font	\$ 250n/ 0
92286X	EAN/UPC/OCR-B (bar code) font	\$ 250n/ 0
92286Y	PC Courier typefont	\$ 250n/ 0

DOT-MATRIX THERMAL PRINTERS

NOTE: Customer programming is required to provide Top-of-Form with the printers listed below.

2671G (5400)	GRAPHICS PRINTER, 120 cps, Katakana/JASCII char set instead of std char set	\$ 1,740d/\$ 15
-008		0f/ 0
2673G (5400)	INTELLIGENT GRAPHICS PRINTER, 120 cps, 40/80/132 col Katakana/JASCII char set instead of std char set	\$ 2,240d/\$ 18
-008		0f/ 0
-039	Data Link interface instead of HP-IB interface (requires 12092A interface and 91732A software in A-Series)	250f/ 0

Graphics Devices

NOTE: See pages 9 and 10 for interfacing information.

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMM
SOFT COPY DEVICES AND TV INTERFACE		
13279B (4000)	19-in RGB COLOR MONITOR, conn to A-Series via 12065A I/F [Must order opt 035/065]	\$ 6,300d/\$121
-035	Short persistence phosphor	0f/ 0
-065	Long persistence phosphor	
12065A (5200)	COLOR VIDEO INTERFACE with 3m/9.8 ft cable to 13279B	\$ 1,950f/\$ 18
2393A	GRAPHICS TERMINAL	(See page 25)

Graphics Devices, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
SOFT COPY DEVICES AND TV INTERFACE, continued	
2397A COLOR GRAPHICS TERMINAL	(See page 25)
91200B TV INTERFACE (Not supported under Graphics/1000-II)	(See page 25)

RASTER DUMP DEVICES (Order from Supplying Div 5400)

2671G (5400) (thermal) PRINTER, 120 cps, 80/132 col, std printer conn to HP-IB port of 2393A+046, 2397A+046, 2625A*+026.523, 2628A*+026.053 or 45610B* via 10833A/B/C cable; for other conn, see option 040.	\$ 1,740d/\$ 15
-040 RS-232-C I/F conn. to 2393A+092 or 2397A+092 via 40242G cable or 2623A* 2627A* or 45610B* via 13242G cable.	Of/ 0
2673A (5400) INTELLIGENT (thermal) GRAPHICS PRINTER, 120 cps, 40/80/132 col; same option and same conn to same terminals as 2671G, above.	\$ 2,240d/\$ 18
2932A (5400) GENERAL-PURPOSE PRINTER, 200 cps, 128 char set plus line drawing set, and graphics; std printer conn. to RS-232 port of 2393A+092 or 2397A+092 via 40242G cable or 2623A* 2627A* or 45610B* via 13242G cable; for other conn, see option 046, below.	\$ 2,595n/\$ 21
-046 HP-IB interface conn. to HP-IB port of 2393A+046, 2397A+046, 2625A*+026.523, 2628A*+026.523, or 45610B* via 10833A/B/C cable.	150n/ 0
2934A (5400) OFFICE PRINTER, 200/67/40 cps, 128 char set plus large char set, and graphics; same options and conn to same terminals as 2932A, above.	\$ 2,995n/\$ 24

INPUT DEVICES

46060A (D700) HP MOUSE used w/2393A or 2397A Graphics Terminal or 724x5A Vectra PC (Connects between terminal/PC keyboard and display)	\$ 148n/ 0
46087A (4000) GRAPHICS TABLET used w/2393A or 2397A Graphics Terminal or 724x5A Vectra PC (Connects between terminal/PC keyboard and display)	\$ 795n/ 0

HARD COPY DEVICES

Order from Supplying Division 1100, except where otherwise specified below or on a referenced page.

Order plotter pens and plotting and drafting media from the Hewlett-Packard Computer User's Catalog, 5953-2450(D) or later version.

256xB LINE PRINTER	(See page 26)
2686A LASERJET PRINTER	(See page 28)
2686A+300 LASERJET PLUS PRINTER	
293xA PRINTERS	(See page 27)
7440A COLORPRO PLOTTER, 8-pen, A-Size for A/E/F-Series (Requires Option 001 or 002)	\$ 1,295d/\$ 7w
-001 RS-232-C I/F in plotter	Of/ 0
-002 HP-IB interface in plotter	Of/ 0
7470AR Remarketed 7970A PLOTTER (C100) (requires Option 001 or 002)	\$ 700d/\$ 10
-001 RS-232-C I/F in plotter	Of/ 0
-002 HP-IB interface in plotter	Of/ 0
7475A PLOTTER, 8-pen, B-Size, for A/E/F-Series (requires Option 001 or 002)	\$ 1,895d/\$ 10
-001 RS-232-C I/F in plotter	Of/ 0
-002 HP-IB interface in plotter	Of/ 0
7510A COLOR FILM RECORDER for preparation of 35 mm slides	\$13,900d/\$40w

Graphics Devices, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
HARD COPY DEVICES, continued	
7550A GRAPHICS PLOTTER, 8-pen, B-Size, with auto sheet feed	\$ 3,900d/\$ 32
17525A B-Size 7550A MEDIA HANDLER	160f/ 0
17526A A3-Size 7550A MEDIA HANDLER	160f/ 0
7570A DRAFTPRO PLOTTER, A2/C and A1/D Size	\$ 5,400d/\$15w
17570A HP-IB interface for 7570A	295f/\$ 0
7580B# DRAFTING PLOTTER, A1/D-Size, for A/E/F-Series	\$ 9,900d/\$ 96
7585B* DRAFTING PLOTTER, A0/E-Size, for A/E/F-Series	\$12,900d/\$ 96
7586B# ROLL-FEED DRAFTING PLOTTER, A0/E-Size, for A/E/F-Series	\$18,900d/\$ 96

Order 758xB plotters with Option 060 for use with HP 1000 Computers.

Discs and Accessories

NOTE: See pages 6, 7 & 10 for interfacing information.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
INTEGRATED DISCS FOR MICRO/1000 SPUS AND COMPUTERS	
12120A (2200) 19.4 MB FIXED DISC & 631 kB MICROFLOPPY DISC for integration into 248xA+150 SPU or 243xA+151 Computer	\$ 3,325f/\$ 15
12121A (2200) 19.4 MB FIXED DISC for integration into 248xA+151 SPU or 243xA+151 Computer	\$ 3,025f/\$ 14

COMMAND SET/80 HARD DISCS

(Order from supplying division 4800, except where otherwise specified.)

Up to four discs per 12009A interface in A-Series or 12821A interface in E/F-Series. An integral cartridge tape drive for backup is standard in 7911P/R, 7912P/R, and 7914CT/P/R Discs.		
7907A -015	41M byte (Cartridge) DISC 230V/50 Hz ac power	\$12,500n/\$ 80 Of/ 0
19507A	RACK MOUNT KIT FOR 7907A@	\$ 165n/ 0
7911P -015	28.1M byte standalone DISC 220V/50 Hz ac power	\$13,750n/\$ 45 Of/ 0
-140	Deletes cartridge tape drive	-3,570n/\$ -9
7911R -015	28.1M byte rack mtg DISC 220V/50 Hz ac power	\$13,750n/\$ 45 Of/ 0
-140	Deletes cartridge tape drive	-3,570n/\$ -9
7912P -015	65.6M byte standalone DISC 220V/50 Hz ac power	\$14,800n/\$ 47 Of/ 0
-140	Deletes cartridge tape drive	-3,570n/\$ -9
7912R -015	65.6M byte rack mtg DISC 220V/50 Hz ac power	\$14,800n/\$ 47 Of/ 0
-140	Deletes cartridge tape drive	-3,570n/\$ -9
7914CT (C600) -015	132.1M byte standalone DISC with integral 9144A 220V/50 Hz ac power	\$17,350n/\$ 63 Of/ 0
-140	Deletes cartridge tape drive	-3,500n/\$-11
7914P -015	132.1M byte standalone DISC 220V/50 Hz ac power	\$17,350n/\$ 55 Of/ 0
-140	Deletes cartridge tape drive	-3,570n/\$-13
7914R -015	132.1M byte rack mtg DISC 220V/50 Hz ac power	\$17,350n/\$ 55 Of/ 0
-140	Deletes cartridge tape drive	-3,570n/\$-13

@ Safety of 7907A in 29431G Cabinet has not been qualified by Hewlett-Packard and is the responsibility of the user.

Discs and Accessories, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
COMMAND SET/80 HARD DISCS, continued		
7914ST	DISC/TAPE SUBSYSTEM, 7914R Disc without cartridge tape drive and 7974A Mag Tape Unit in 56-inch cabinet	\$30,500n/\$122
-015	220V/50 Hz ac power	0f/ 0
-240	Adds cartridge tape drive in 7914R Disc	3,570n/\$ 13
-800	Adds 800 cpi NRZI capability to 7974A Magnetic Tape Unit	2,500f/\$ 14
-U02	Over 400,000 ft of tape/mo	/ \$ 17
7933H*	404M byte FIXED DISC, 208V	\$14,750n/\$ 75
-120	120V ac power	0n/ 0
-210	208V ac power for Canada	0n/ 0
-210	220V ac power for Canada	0n/ 0
-221	220V ac power for Europe	0n/ 0
-222	220V ac power (Switzerland)	0n/ 0
-223	220V ac power for Denmark	0n/ 0
-241	240V ac power for the U.K.	0n/ 0
-242	240V ac power for Australia and New Zealand.	0n/ 0
7933XP*	404 M byte FIXED DISC with cache, 208V; same power options as 7933H, above.	\$16,250n/\$ 67
7935H*	404 MB REMOVABLE MEDIA DISC, 208V; same power options as 7933H, above.	\$22,500n/\$103
7935XP*	404 MB REMOVABLE MEDIA DISC with cache, 208V; same power options as 7933H, above.	\$24,000n/\$ 96
7936H*	307M byte FIXED DISC	\$13,500n/\$ 33
-015	Operation from 50 Hz power	0f/ 0
-017	Operation from 180-264V	0f/ 0
7936XP*	307M byte FIXED DISC	\$15,500n/\$ 35
-015	Operation from 50 Hz power	0f/ 0
-017	Operation from 180-264V	0f/ 0
7937H*	571M byte FIXED DISC	\$17,600n/\$ 40
-015	Operation from 50 Hz power	0f/ 0
-017	Operation from 180-264V	0f/ 0
7937XP*	571M byte FIXED DISC	\$19,600n/\$ 42
-015	Operation from 50 Hz power	0f/ 0
-017	Operation from 180-264V	0f/ 0
7941A#	23.8M byte FIXED DISC	\$ 4,500n/\$ 33
-015	230V/50 Hz ac power	0f/ 0
7942A	23.8M byte DISC/TAPE DRIVES	\$ 7,700n/\$ 44
-015	230V/50 Hz ac power	0f/ 0
7945A#	55.5M byte FIXED DISC	\$ 6,000n/\$ 40
-015	230V/50 Hz ac power	0f/ 0
7946A	55.5M byte DISC/TAPE DRIVES	\$ 9,200n/\$ 50
-015	230V/50 Hz ac power	0f/ 0
7957A#	81M byte FIXED DISC	\$ 5,200d/\$ 28
-015	230V/50 Hz ac power	0f/ 0
7958A#	130M byte FIXED DISC	\$ 7,700d/\$ 29
-015	230V/50 Hz ac power	0f/ 0
19500B	Kit for rack mounting 7941A, 7945A, 7957A, or 7958A Disc@	\$ 85f/ 0
19501A	Kit for rack mounting 7942A or 7946A Disc/Tape Drives@	\$ 165f/ 0

* A 797x mag tape subsystem (page 31) is required system bootup, software installation, and backup for the 793xH/XP Disc.

A 9144A Cartridge Tape Subsystem or 797xA mag tape subsystem (page 31) is required for system bootup, software installation, and backup for the 7941A, 7945A, 7957A, or 7958A Disc.

@ Safety of 7941A, 7942A, 7945A, 7946A, 7957A, or 7958A in 29431G Cabinet has not been qualified by Hewlett-Packard and is the responsibility of the customer.

Discs and Accessories, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
REMARKETED MAC MASTER DISC DRIVES		
NOTE: HP 792xMR Option 102 is required for connection of MAC Master Discs to HP 1000 A-Series systems.		
7920MR*	Remarketed 50 MB standalone (C100) MAC MASTER DISC DRIVE	\$12,175n/\$114
-015	230V/50 Hz ac power	0f/ 0
-102	HP-IB Adapter required for interfacing to A-Series	1,000f/ 3
7925MR*	Remarketed 120 MB standalone (C100) MAC MASTER DISC DRIVE	\$10,560n/\$105
-015	230V/50 Hz ac power	0f/ 0
-102	HP-IB Adapter required for interfacing to A-Series	1,000f/ 3
* A 797x mag tape subsystem (page 31) or 792xSR disc is required for backup and copy capability for the 792xMR Master disc. Mag tape is required for installation of software other than the RTE-6/VM or RTE-IVB operating system.		
REMARKETED MAC SLAVE DISC DRIVES		
Requires one of the MAC Master discs listed above; max. of seven MAC Slave discs per MAC Master disc in E/F-Series, max. of five MAC Slave discs per MAC Master disc in A-Series.		
7920SR	Remarketed 50 MB standalone (4800) MAC SLAVE DISC DRIVE	\$ 9,825n/\$ 80
-015	230V/50 Hz ac power	0f/ 0
7925SR	Remarketed 120 MB standalone (4800) MAC SLAVE DISC	\$ 8,227n/\$ 75
-015	230V/50 Hz ac power	0f/ 0
-806	Credit for upgrade from 7906S	-500f/ 0
-620	Credit for upgrade from 7920S	-1,000f/ 0
MINI-WINCHESTER AND FLEXIBLE DISCS		
(Order from Supplying Division D700.)		
9133H	19.9 MB MINI WINCHESTER DISC & 631 kB SINGLE MICROFLOPPY	\$ 3,015n/\$ 21
9133L	39.9 MB MINI WINCHESTER DISC & 631 kB SINGLE MICROFLOPPY	\$ 4,450n/\$ 38
9134H	19.9 MB MINI WINCHESTER DISC	\$ 2,615n/\$ 18
9134L	39.9 MB MINI WINCHESTER DISC	\$ 4,050n/\$ 35
9153B	19.9 MB MINI WINCHESTER DISC (D700) & 631 kB SINGLE MICROFLOPPY	\$ 2,740n/\$10w
9154B	19.9 MB MINI WINCHESTER DISC (D700)	\$ 2,390n/\$ 8w
19500B	Kit for rack mounting 9133x (4800) or 9134x Disc*	\$ 85f/ 0
9122D	1.2 MB DUAL MICROFLOPPY DISC DRIVE (D700)	\$ 1,390d/\$ 9
* Safety of 913xx discs in 29431G Cabinet has not been qualified by Hewlett-Packard and is the responsibility of the user.		
ADDITIONAL DISCS AND TAPE CARTRIDGES		
NOTE: For fast, easy ordering and information on quantity discounts, see the Hewlett-Packard Computer User's Catalog, 5953-2450(D) or later revision. Order from Supplying Division A500.		
12940A	FORMATTED DISC CARTRIDGE FOR (A500) 7906	\$ 165n
13356A	FORMATTED DISC PACK FOR 7925	\$ 905n
13384A	FORMATTED DISC PACK FOR 7920	\$ 560n
88140LC	BOX OF FIVE 67 MB TAPE CARTRIDGES for Cartridge Tape Drive in 7911/12/14 or 7942A/7946A Disc or 9144A Cartridge Tape Subsystem	\$ 215n
97807A	DISC CARTRIDGE FOR 7807A	\$ 215n
97935A	REMOVABLE MEDIA FOR 7935H	\$ 1,530n/\$ 31

Discs and Accessories, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
ADDITIONAL DISCS AND TAPE CARTRIDGES, continued	
92190A BOX OF TEN 250 KB MINIFLOPPY (A500) DISCS	\$ 35n
92190L FLEXFILE 50-PACK OF 250 KB (A500) MINIFLOPPY DISCS	\$ 139n
92192A BOX OF TEN DOUBLE-SIDED MICROFLOPPY DISCS (For 12120A, 9122D, & 9133H/L)	\$ 55n
92191A BOX OF TEN SINGLE-SIDED (A500) MICROFLOPPY DISCS (For 248xA or 234xA/E Opt 111* micro-floppy drive only)	\$ 45n

* Obsolete product listed here for reference only.

Magnetic Tape Units

NOTE: See page 7 for interfacing information.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
STANDALONE 1600 and 6250 CPI, 9-TR, MAG TAPE UNITS IN UPRIGHT RACK CABINET	
7974A 1600 cpi, 9-Tr, 50/100 IPS (5800) MAG TAPE UNIT	\$14,000d/\$ 80
-800 Adds 800 cpi NRZI capability.	3,000f/\$ 14
-U02 Over 400,000 feet of tape/mo.	/ \$ 17
7974AR Remarketed 7974A	\$12,600d/\$ 80
7978B 6250 & 1600 cpi, 9-tr, (5800) 75 IPS MTU for A-Ser only	\$24,500d/\$ 85
-674 7974A Trade-in credit; also requires 7974AN return credit product (page 21)	-1,000f/ 0
-U02 Over 300,000 feet of tape/mo.	/ \$ 17

NOTE: Maximum read and write block sizes with 7974A are smaller than with 7970E and 7971A, WHICH MAY AFFECT CUSTOMER SATISFACTION. HP 7974A max. read block = 32 KB, max. write block = 16 KB.

REMARKETED LOW-BOY CABINET & RACK MOUNTING MAG TAPE UNITS (MTUs)

7970ER REMARKETED 7970E MTU (C100) [req Opt 226, 626, or 636]	\$ 5,900d/\$ 86
-015 230V/50 Hz ac power	0f/ 0
-226 Subsys in low-boy cabinet, w/2-card E/F-Ser interface	3,200f/\$ 29
-626 Subsystem in low-boy cabinet for A-Series	1,700f/\$ 55
-636 Rack mtg subsys* for A-Ser	1,600f/\$ 45

* Requires 219xC Option 051 System Processor Unit.

REMARKETED STANDALONE 1600 CPI, 8-TR, MAG TAPE SUBSYSTEMS IN UPRIGHT RACK CABINET

7971AR REMARKETED 7971A MAG TAPE (C100) SUBSYS (req Opt 140 for A-Ser, Opt 280 for E/F-Ser)	\$ 6,940d/\$ 0
-015 230V/50 Hz ac power	0f/ 0
-140 One 1600 cpi MTU (A-Series)	3,200f/\$133
-260 One 1600 cpi Master MTU (E/F-Series)	3,200f/\$107

CARTRIDGE TAPE SUBSYSTEMS AND ACCESSORIES

35401A AUTOCHANGER CARTRIDGE TAPE (C600) SUBSYSTEM (Req opt 100; uses 35490A kit for rack mtg)	\$ 7,000d/\$ 35
-100 Utility for oper in HP1000/A	
35490A Kit for rack mounting 35401A (C600) Autochanger Cart. Tape S/S	\$ 550f/ 0
9144A CS/80 CARTRIDGE TAPE SUBSYS- (C600) TEM (Req 19500B kit to rack)	\$ 3,500d/\$ 11
19500B Kit for rack mounting 9144A (4800) Cartridge Tape Subsystem*	\$ 85f/ 0

* Safety of 35401A or 9144A in 29431G Cabinet has not been qualified by Hewlett-Packard and is the responsibility of the user.

Modems and Cables

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
MODEMS	
37214A SYSTEMS MODEM CARD CAGE (req (1400) one or more 37213/15/16 cards, 1556xA cables, and 12040D+002 (A-Series) or 12792C+002 (E/F-Series); U.K. Autodialling operation	\$ 1,800n/\$ 5 0f/ 0
-001	
37213A 300/1200 BPS MODEM CARD (1400)	\$ 1,125n/\$ 2
37215A INTERFACE CARD TO EXT. MODEM (1400)	\$ 200n/\$ 0
37216A DIRECT-CONN I/F TO TERMINAL (1400)	\$ 180n/\$ 0
92205A 1200 BPI MODEM (A500)	\$ 550 (1) 525 (2-4) 500 (5+)
92205B 2400 BPI MODEM (A500)	\$ 899 (1) 869 (2-4) 839 (5+)

TELEPHONE CABLES FOR USE WITH 37214A SYSTEMS MODEM

15561A 2.1m/7 ft MODEM CABLE WITH (1400) BELL TELEPHONE JACK	\$ 32n/n.a.
15562A 3m/9.8 ft MODEM CABLE WITH (1400) BRITISH TELECOM MODULAR TELEPHONE JACK	\$ 32n/n.a.
15563A 3m/9.8 ft MODEM CABLE WITH (1400) SPADE TERMINALS	\$ 32n/n.a.
15564A 5m/16.4 ft CABLE FOR CONNec- (1400) TING 37215A TO EXT MODEM	\$ 208n/n.a.

FIBER OPTIC MULTIPLEXER AND CABLING

Two 39301A Fiber Optic Multiplexers and a user-specified length of 39200B Full-Duplex Fiber Optic cabling up to 1.25 km (4101 ft) long provide noise-immune connection of 8 or 16 serial channels. The HP 1000 system connects to the 39301A via a 12040D or 12792C multiplexer and a 13242G cable for each channel.	
39301A FIBER OPTIC MULTIPLEXER (0165) (MUST ORDER power opt 210, 212, 222, or 224)	\$ 2,625d/\$ 16
-001 Recessed rack mtg hardware	30f/ 0
-212 Oper. from 120V, 50/60 Hz ac	0f/ 0
-222 Oper. from 220V, 50/60 Hz ac	0f/ 0
-242 Oper. from 240V, 50/60 Hz ac	0f/ 0
39200B DUAL-CHAN FIBER OPTIC CABLE (0165)	\$ 3.35d/metre
-001 Adds connectors to cable	180f/n.a.
8120-3569 0.6m/2 ft DUAL-CHANNEL (0165) RS-232-C/V.24 ADAPTER CABLE for separate connection to primary and secondary data channels on each 39301A conn	\$ 107n/ 0

HP-IB CABLES Order from Supplying Division A580.

10833A 1m/3.28 ft SHIELDED CABLE	\$ 80n/n.a.
10833B 2m/6.5 ft SHIELDED CABLE	\$ 90n/n.a.
10833C 4m/13.1 ft SHIELDED CABLE	\$ 100n/n.a.

PORT 1 POINT-POINT COMM CABLES FOR 262x TERMINALS WITH 50-PIN CONNECTOR

13222M 5m/16.4 ft CABLE TO EUROPEAN (5600) MODEM	\$ 95d/n.a.
13222N 5m/16.4 ft CABLE TO U.S. (5600) MODEM	\$ 95d/n.a.

Modems and Cables, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
PORT 2 POINT-POINT COMM CABLES FOR 2624B/2626A TERMINALS AND PRINTER CABLES		
13242G (D700)	4.5m/15 ft CABLE TO PRINTER WITH RS-232-C INTERFACE	\$ 69d/n.a.
13242M (4200)	4.5m/15 ft CABLE TO EUROPEAN MODEM	\$ 100d/n.a.
13242N (D700)	4.5m/15 ft CABLE TO U.S. MODEM	\$ 100d/n.a.
40242D (D300)	1m/3 ft CABLE TO PRINTER WITH CENTRONICS INTERFACE	\$ 95n/n.a.
40242G (D300)	5m/16 ft CABLE TO PRINTER WITH RS-232-C INTERFACE	\$ 95n/n.a.

DATA LINK ADAPTERS AND CABLES

(Order from Supplying Division 6300)

3074A	DATA LINK ADAPTER (for	\$ 715d/\$ 11
3074M	DATA LINK ADAPTER (modem)	\$ 820d/\$ 6
92901A	DATA LINK CONNECTION BOXES (set of 5)	\$ 60d/ 0
92902A	DATA LINK CABLE (must order Opt 001 or 002)	\$ 0d/ 0
-001	100m/328 ft cable length	\$ 335d/ 0
-002	300m/984 ft cable length	\$ 845d/ 0
92905A	2m/6.5 ft LINK-TO-DEVICE CABLE for 307x terminals	\$ 121d/ 0
92906A	MULTIPOINT CABLE (must order Opt 001 or 002)	\$ 0d/ 0
-001	100m/328 ft cable length	\$ 410d/ 0
-002	300m/284 ft cable length	\$ 1,165d/ 0
92908A	DATA LINK TESTER	\$ 210d/ 0
92909A	LINK TEST CABLE	\$ 135d/ 0

MISCELLANEOUS MULTIPOINT COMMUNICATIONS CABLES

13232R (4200)	30m/100 ft MULTIPOINT EXTENSION CABLE	\$ 125d/n.a.
13232U (4200)	1.5m/5 ft MODEM BYPASS CABLE	\$ 54d/n.a.

ASYNCHRONOUS MULTIPLEXER COMMUNICATIONS CABLES

13222Y (5600)	5m/17 ft EM PROTECT CABLE, 262x terminal 50-pin conn. to Multiplexer panel.	\$ 95n/n.a.
24542M (D700)	3m/9.8 ft MODEM CABLE, 724x5A Vectra PC to 12040C/D Multiplexer panel.	\$ 55n/n.a.
40242M (5600)	5m/16.4 ft CABLE, 239xA, 2625A, 2628A, or 45610B to 12040C/D Multiplexer panel, or modem to 12100A OBIO 4-ch multiplexer or 12040C/D 8-ch multiplexer	\$ 95n/n.a.
40242Y (D300)	5m/16.4 ft. CABLE to connect 239xA Terminal or 724x5A Vectra PC to the On-Board I/O multiplexer on A400 CPU	\$ 95f/\$ 0
40242X (A500)	5m/16.4 ft RS-232-C CABLE, 12040D/12792C mpexer ch to 92922A adapter port	\$ 95n/ 0
30062B (6600)	7.6m/25 ft DATA SET CABLE to conn U.S. modem to Multiplexer panel.	\$ 70d/n.a.
-001	Incr length to 15.2m/50 ft	35f/n.a.
30062C (6600)	7.6m/25 ft EXTENSION CABLE	\$ 115d/n.a.
-001	Incr length to 15.2m/50 ft	45f/n.a.
-002	Incr length to 30.4m/100 ft	105f/n.a.
92219G (A500)	3.8m/12.5 ft CABLE for conn of 256xA/B+049 or 293xA Printer to Multiplexer panel.	\$ 65n/n.a.

Modems and Cables, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
MULTIMUX		
2334A (6310)	MULTIMUX for terminal conn to X.25 Packet Switching Network (terminals connect to 2334A via Multiplexer Communications cables, above; must order 1 to 4 of Option 122).	\$ 1,950n/\$ 14
-X25	Manual for customer using X.25 Packet Switching Network with the 2334A.	15n/n.a.
-015	230V/50 Hz ac power	0f/ 0
-100	Initial configuration by HP at customer's site.	350n/ 0
-122	Four-port Modem/DirConn. I/F	850n/ 0

NS/1000, DS/1000-IV, AND DS/1000 POINT-TO-POINT COMMUNICATIONS CABLES

91712A (5200)	75m/246 ft DS/1000-IV EXTENSION CABLE*	\$ 480d/n.a.
91713A (5200)	CONN KIT FOR USER-FABRICATED DS/1000-IV DIR CONN CABLE*	\$ 55d/n.a.
-001	One pair of edge conn for 12044A/82A or 12825A/34A I/F	105f/n.a.
91714A (5200)	300m/984 ft CABLE KIT w/conn for user-fabricated DS/1000-IV direct connect cable*	\$ 1,070d/n.a.

* For use with 12044A, 12082A, 12825A, and 12834A direct-connect interfaces.

LOCAL AREA NETWORK (LAN) CONNECTION HARDWARE

Order all items from Supplying Division A500.

30241A (A500)	LAN MEDIUM ATTACHMENT UNIT (MAU) & LAN COAX CABLE TAP	\$ 400n/n.a.
30241B	ADD'L LAN COAXIAL CABLE TAP	\$ 45n/n.a.
92253A (A500)	23.4m/76.7 ft UNCONNECTED LAN FEP COAXIAL CABLE KIT*	\$ 400n/n.a.
92253B (A500)	23.4m/76.7 ft UNCONNECTED LAN FEP COAXIAL CABLE KIT	\$ 425n/n.a.
92253C (A500)	117m/383.8 ft UNCONNECTED LAN FEP COAXIAL CABLE KIT*	\$ 1,500n/n.a.
92253D (A500)	500m/1640.5 ft UNCONNECTED LAN FEP COAXIAL CABLE KIT	\$ 6,000n/n.a.
92253E (A500)	23.4m/76.7 ft UNCONNECTED LAN PVC COAXIAL CABLE KIT*	\$ 200n/n.a.
92253F (A500)	23.4m/76.7 ft UNCONNECTED LAN PVC COAXIAL CABLE KIT	\$ 225n/n.a.
92253G (A500)	117m/383.8 ft UNCONNECTED LAN PVC COAXIAL CABLE KIT*	\$ 500n/n.a.
92253H (A500)	500m/1640.5 ft UNCONNECTED LAN PVC COAXIAL CABLE KIT	\$ 2,100n/n.a.
* Includes connectors for assembly by the customer.		
92253J (A500)	MALE N-CONNECTORS PACKAGE, four male N-connectors for use on 92253A-H cables.	\$ 60n/n.a.
92253K (A500)	BARREL N-CONNECTORS PACKAGE, two female-female barrel connectors and two barrel insulators for use with 92253A-H cables.	\$ 65n/n.a.
92253L (A500)	TERMINATOR KIT, one grounded and one non-grounded terminator and one terminal insulator for use with 92253A-H cables.	\$ 60n/n.a.
NOTE: One of the following 92254A-H Attachment Unit Interface (AUI) cables is used to connect the 12076A LAN/1000 Link interface to its Medium Attachment Unit (MAU) tap on the 92253x LAN coaxial cable.		
92254A	8m/19.6 ft AUI FEP CABLE	\$ 135n/n.a.
92254B	12m/39.3 ft AUI FEP CABLE	\$ 200n/n.a.
92254C	24m/78.7 ft AUI FEP CABLE	\$ 345n/n.a.
92254D	48m/157.4 ft AUI FEP CABLE	\$ 635n/n.a.

Modems and Cables, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
LOCAL AREA NETWORK (LAN) CONNECTION HARDWARE, cont'd	
92254E 6m/19.6 ft AUI PVC CABLE	\$ 85n/n.a.
92254F 12m/38.3 ft AUI PVC CABLE	\$ 110n/n.a.
92254G 24m/78.7 ft AUI PVC CABLE	\$ 160n/n.a.
92254H 48m/157.4 ft AUI PVC CABLE	\$ 250n/n.a.
92255A CUT-TO-MEASURE FEP AUI CABLE (minimum order of 15 metres)	\$ 13/metre
92255B CUT-TO-MEASURE PVC AUI CABLE (minimum order of 15 metres)	\$ 4.50/metre
92255C AUI CONNECTOR KIT	\$ 47n/n.a.
92256A LAN COAXIAL TOOLKIT for installing N-connectors on 92253A-H Coaxial Cabling (A500)	\$ 185n/n.a.
92256B LAN AUI TOOL KIT for installing and testing AUI cables (A500)	\$ 900n/n.a.
92256C LAN MAU/TAP TOOL KIT for installing tap on coaxial cable and attaching to MAU (A500)	\$ 39n/n.a.
92256D LAN AUI WALLPLATE KIT, two wallplates for AUI connectors (not included) (A500)	\$ 33n/n.a.
92256E SURGE PROTECTOR	\$ 90n/n.a.
92257B LOOPBACK HOOD for operation of node diagnostic for failure isolation (A500)	\$ 140n/n.a.

Cabinets and Accessories

Order from Supplying Division 2200, except where otherwise specified.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
29402C 56-INCH CABINET AND ACCESSORIES	
29402C 56-inch Aluminum CABINET for general purpose racking of equipment (1st cabinet req Opt 200/210; add-on cabinet req Opt 400/410; max. of two Opt 400/410 cabinets per Opt 200/210 cabinet) (2200)	\$ 1,900d/\$ 6
-050 Hinged front door	615f/n.a.
-051 Snap-on front door	615f/n.a.
-200 Config. master cabinet with 60 Hz power control unit and 115V/60 Hz outlets	870f/n.a.
-210 Opt 200 for 230V/50 Hz*	870f/n.a.
-400 Config. add-on cabinet bay w/power distr unit and 115V/60 Hz outlets	320f/n.a.
-410 Opt 400 for 230V/50 Hz*	320f/n.a.
40017B Cabinet STABILIZER	\$ 800f/n.a.
12673B 5.25-inch DRAWER	\$ 465f/n.a.
12675B FIXED 1-bay SHELF -001 Rounded corners	\$ 285f/n.a. Of/

* Equipment items in a 29402C Option 210 or 410 cabinet will all require an Option 905 power cord.

BLANK PANELS FOR 294xxC/D/F/G CABINETS

12680B 45mm/1.75 inch PANEL	\$ 40d/n.a.
12681B 89mm/3.5 inch PANEL	\$ 40d/n.a.
12682B 133mm/5.25 inch PANEL	\$ 40d/n.a.
12683B 178mm/7 inch PANEL	\$ 40d/n.a.
12684B 222mm/8.75 inch PANEL	\$ 40d/n.a.
12685B 267mm/10.5 inch PANEL	\$ 40d/n.a.

Cabinets and Accessories, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
CABINETS AND ACCESSORIES FOR EMI-QUALIFIED SYSTEMS	
29429A 21.5-in. steel CABINET used to house 2137A, 2139A, or 2156B Computer and 79xxR Disc (cabinet used in 219xD System Processor Unit) (2200)	\$ 2,300d/\$ 3
29431G 56-inch steel CABINET used to house 2137A, 2139A, 2156B, 2113E, or 2117F Computer and/or 79xxR Disc or 7906MR+025 Disc in lower compartment. Upper compartment is for 243xA or 248xA Micro/1000 package, 2113E or 2117F Computer, 13037D Controller for 7906MR+025 Disc, or other equipment. Cabinet houses 219xC or 217xC/E/F SPU. (2200)	\$ 3,300d/\$ 5
-015 230V/50 Hz ac power	Of/ 0
-050 Cabinet adaptation to mount 7906MR+025 rack mtg disc	Of/ 0
-051 Adaptation for rack mounting mag tape unit in upper space	Of/ 0
-053 Lower door with ventilation louvers instead of cutout for 791xR rack-mounted disc.	Of/ 0
40026A TIE-TOGETHER KIT for 29431G Cabinets (2200)	\$ 300f/n.a.
40027A MAG TAPE TRIM KIT for 7970E in 29431G Cabinets (Must order via Heart override) (2200)	Call factory for quote

EQUIPMENT SUPPORT RAILS & SLIDES FOR 294xxC/D/F CABINETS

12679B Pair of SUPPORT RAILS with 150 lb capacity and attaching hardware for rack mounting Micro/1000 SPU/computer or instrument. (2200)	\$ 60d/n.a.
12679C Pair of SUPPORT RAILS with 75 lb capacity and attaching hardware for rack mounting Micro/1000 SPU/computer or instrument. (2200)	\$ 43d/n.a.
12903B RACK SLIDES FOR 2109E (2200)	\$ 235d/n.a.
12903C RACK SLIDES FOR 2111F/13E (2200)	\$ 265d/n.a.
12905A ADAPTER FOR RACK MOUNTING 2424A, 2426E, or 2426F Computer or 2456A Bundle in 19-inch cabinet. (2200)	\$ 375d/n.a.

CABINETS FOR 2426E/F COMPUTERS & SIMILAR PERIPHERALS

(Order from Supplying Division A500.)

92211L 20.6-in. TABORET CABINET	\$ 239d/n.a.
92211R 28-in. MINIRACK CABINET	\$ 550d/n.a.



ATS/1000 Products

Order from Supplying Division 2230.

NOTE: For configuration information, see the ATS/1000 Integration Services Data Sheet and Configuration Guide, 5953-8759 or a later revision.

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
ATS/1000 INTEGRATION SERVICES	
93283A RACKING AND CABLING SERVICE for ATS/1000 Systems Integr. Cabinet hardware, per bay (for 1 to 5 cabinet bays)	\$ 4,000n/n.a.
-001 240V AC Power to cabinets	2,500f/n.a.
-002 Racking material per item racked (order "n" times opt 003 where "n" is the number of items to be rack mounted)	0f/n.a.
-003 Each signal cable (order "n" times opt 004 where "n" is the number of signal cables required in the system)	270f/n.a.
-004 Cables for each 9413A VHF Switch mainframe (order "n" times opt 005 where "n" is the number of 9413As in the system)	125f/n.a.
-005 Discount on racking and cabling service for additional identical system on the same order as a first system.	270f/n.a.
-007	-2,500f/n.a.
93284A CONFIGURATION/SYSTEM TEST SERVICE for ATS/1000 Systems Use of HP-owned HP 1000 Computer System for configuration/System test instead of HP 1000 System purchased by customer.	\$ 6,500n/n.a.
-006 Discount on configuration/system test service for additional identical system on same order as a first system.	6,500f/n.a.
-007 Source Inspection at the factory in Cupertino, Calif. by one or two customer's representatives, including check of the system's conformance with the order, review of documentation, and performance of System Functional test for that system.	-4,500f/n.a.
-008	3,500f/n.a.
93285A ENGINEERING UNIT (order "n" times 93285A where "n" is the total number of Engineering Units required for integration of the ATS/1000 System.	\$ 140n/n.a.

ATS/1000 SWITCHES AND TEST ADAPTERS

9411B SWITCH CONTROLLER for 9412A, 9413A, and 9414A Switches	\$ 8,000n/\$??
-001 240V AC Power to 9411B	0f/ 0
-002 Auxiliary dc power supply with 120V AC input	595f/n.a.
-003 Auxiliary dc power supply with 240V AC input	595f/n.a.
9412A MODULAR SWITCH (Requires at least one 94120A-E Switch Module; supports up to 25 Switch Modules)	\$12,750n/\$??
94120A MEASUREMENT SCANNER CARD	\$ 1,330n/\$??
94120B GEN'L PURPOSE RELAY CARD	\$ 1,225n/\$??
94120C REED RELAY CARD	\$ 1,120n/\$??
94120D DRIVER/STORAGE CARD	\$ 1,010n/\$??
94120E DISTRIBUTION CARD	\$ 1,225n/\$??
94122A Vertical Panel TEST ADAPTER	\$ 905n/\$??
94122B Sloping Panel TEST ADAPTER	\$ 905n/\$??
94122C ACCESSORY PATCH KIT	\$ 695n/\$??
94124A MANUAL CONTROLLER	\$ 3,720n/\$??
9413A VHF SWITCH (Requires at least one 94130A/B Switch Modules; supports up to 8)	\$ 3,000n/\$??
94130A DUAL 1 x 4 COAXIAL SWITCH	\$ 860n/\$??
94130B 1 x 8 COAXIAL SWITCH	\$ 660n/\$??

ATS/1000 Products, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
ATS/1000 SWITCHES AND TEST ADAPTERS, continued	
9414A MATRIX SWITCH (Requires at least one 94140B; supports up to 64 94140As, four 94140Bs, and up to four 94140Ns.	\$12,000n/\$??
94140A RELAY SWITCH CARD	\$ 505n/\$??
94140B QUAD CONTROL CARD	\$ 425n/\$??
94140N DISTRIBUTION BUS CARD	\$ 425n/\$??
94141A PRINTED CIRCUIT ASSEMBLY TEST FIXTURE	\$ 3,190n/\$??
94143A PRINTED CIRCUIT ASSEMBLY ADAPTER KIT	\$ 240n/\$??
94144A PRINTED CIRCUIT ASSEMBLY ADAPTER BOARD	\$ 130n/\$??
94145A PRINTED CIRCUIT ASSEMBLY ADAPTER BOARD	\$ 240n/\$??
94146A PRINTED CIRCUIT ASSEMBLY ADAPTER BOARD	\$ 160n/\$??

Documentation Products

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
92068K RTE-IVB MANUALS PACKAGE (one (2200) set of the manuals supplied with the 92068A RTE-IVB operating system).	\$ 160n/n.a.
92068A+Q00 UPDATE SERVICE FOR ONE (5010) RTE-IVB MANUALS SET	/\$13m
92077K RTE-A MANUALS PACKAGE (one (2200) RTE-A manuals set)	\$ 250n/n.a.
92077A+Q00 UPDATE SERVICE FOR ONE (5010) RTE-A MANUALS SET	/\$25m
92084K RTE-6/VM MANUALS PACKAGE (one RTE-6/VM manuals set)	\$ 200n/n.a.
92084A+Q00 UPDATE SERVICE FOR ONE (5010) RTE-6/VM MANUALS SET	/\$25m
92121Z PMC/1000 MANUALS (one set of (2200) PMC/1000 manuals).	\$ 50n/n.a.
92121A+Q00 UPDATE SERVICE FOR ONE (5010) PMC/1000 MANUALS SET	/\$ 5m
92131Z QDM/1000 MANUALS (one set of (2200) QDM/1000 manuals)	\$ 120n/n.a.
92131A+Q00 UPDATE SERVICE FOR ONE (5010) QDM/1000 MANUALS SET	/\$ 3m
92830A+N00 SOFTWARE NOTIFICATION SERVICE	/\$30m
92851A M/E/F-SERIES HARDWARE HISTORY LIBRARY	\$ 375n/n.a.
94200Z PCIF/1000 MANUALS (one set of (2200) PCIF/1000 manuals, including self-paced familiarization program on no-charge media options 022, 044, or 051, one of which must be ordered.)	\$ 250n/n.a.
94202Z REFERENCE MANUAL FOR USING ALLEN-BRADLEY PLCs with PCIF/1000	\$ 20n/
94203Z REFERENCE MANUAL FOR USING GOULD-MODICON PLCs with PCIF/1000	\$ 20n/
94204Z REFERENCE MANUAL FOR USING SIEMENS PLCs with PCIF/1000	\$ 20n/
94205Z REFERENCE MANUAL FOR USING TELEMECANIQUE PLCs with PCIF/1000	\$ 20n/
94206Z REFERENCE MANUAL FOR USING GENERAL ELECTRIC Series 6 PLC's with PCIF/1000	\$ 20n/
94250Z FORMS/1000 MANUAL PACKAGE for HP 1000 E/F-Series	\$ 100n/
94250ZB FORMS/1000 MANUAL PACKAGE for HP 1000 A-Series	\$ 100n/

Training Services

(Except where otherwise noted, order from, and schedule attendance with, the local AEO.)

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
RTE OPERATING SYSTEM COURSES	
22950B INTRODUCTION TO RTE	\$ 600n/n.a.
22956C INTRO TO RTE-A INTERNALS	\$ 1,250n/n.a.
22977B A-SERIES I/O DESIGN	\$ 1,500n/n.a.
22988A RTE-6/VM - SESSION MONITOR	\$ 2,000n/n.a.
22989C RTE-6/VM SYSTEM MANAGEMENT	\$ 1,000n/n.a.
22991B RTE-6/VM INTERNALS	\$ 1,250n/n.a.

PROGRAMMING COURSES

22959C FORTRAN 77 PROGRAMMING	\$ 1,000n/n.a.
22960C PASCAL PROGRAMMING	\$ 1,000n/n.a.
22961C FORTRAN 77 INDEPENDENT STUDY DENT STUDY COURSE on video cassettes (must order Opt 003, 004, 005, 006, or 007)	See Opt 003-007
-001 One add'l student workbook	\$ 136n/n.a.
-002 One add'l supplement	\$ 32n/n.a.
-003 Course on U-Matic 3/4-in color video cassette	\$ 500n/n.a.
-004 Course on VHS 1/2-in color video cassettes	500n/n.a.
-005 Course on Beta 1/2-in color video cassette	500n/n.a.
-006 Course on video tape in PAL format	660n/n.a.
-007 Course on video tape in SECAM format	660n/n.a.
22962C MACRO/1000 ASSEMBLER PROG	\$ 1,000n/n.a.
22985B GRAPHICS/1000-II DEVICE- INDEPENDENT GRAPHICS LIBRARY COMPUTER-AIDED INSTRUCTION for self-paced learning on user-specified media	\$ 1,008n/n.a.
-001 Upgrade discount	-692n/ On/
-050 800 cpi Mag Tape media	On/
-051 1600 cpi Mag Tape media	On/
22985C RIGHT TO COPY 22985C COURSE TO ONE ADDITIONAL SYSTEM	\$ 100n/n.a.

HP 1000 NETWORKS TRAINING COURSES

22968C DS/1000-IV USER'S COURSE	\$ 1,000n/n.a.
22969C DS/1000-IV INTERNALS	\$ 1,250n/n.a.
22970C DS/1000-IV to DS/3000 COMM.	\$ 1,000n/n.a.

ATS/1000 TRAINING COURSES

(Order from Supplying Division 2230; these courses are taught at the factory in Cupertino, California.)

22972B ATS/1000 TEST PROGRAMMING	\$ 2,000n/n.a.
22973B ATS/1000 ADVANCED TEST PROG	\$ 2,000n/n.a.

DATA BASE MANAGEMENT AND APPLICATIONS SOFTWARE COURSES

35076B IMAGE/1000-II USER'S COURSE	\$ 1,000n/n.a.
92127A PMC/1000 COURSE	\$ 1,250n/n.a.
92137A QDM/1000 COURSE	\$ 1,250n/n.a.

PRESENTATION OF COURSES AT CUSTOMER'S FACILITIES

Certain courses can be given at suitably-equipped customer's facilities. These courses, which carry an X suffix (such as 22950X) are listed in the HP Corporate Price List. For more information on all Training Courses, contact the local Hewlett-Packard Applications Engineering Organization.

Consulting and Project Services Charged on a Time and Materials Basis

(Order from the local AEO.)

PROD. NO., DESCRIPTION, & OPTIONS	PRICE
CONSULTING SERVICES	
51413A PRODUCT SUPPORT REPRESENTATIVE (PSR) NORMAL HOURS SERVICES	\$ 90n/hr
51414A SYSTEMS ENGINEER (SE) NORMAL HOURS SERVICES	\$ 112n/hr
51415A SPECIALIST (SP) NORMAL HOURS SERVICES	\$ 140n/hr
51418A PSR OFF-HOURS SERVICES	\$ 125n/hr
51420A SE OFF-HOURS SERVICES	\$ 155n/hr
51421A SP OFF-HOURS SERVICES	\$ 195n/hr
51422A PSR WEEKEND RATE SERVICES	\$ 155n/hr
51423A SE WEEKEND RATE SERVICES	\$ 195n/hr
51424A SP WEEKEND RATE SERVICES	\$ 245n/hr

PROJECT SERVICES

35135C SYSTEMS ENGINEER (SE) NORMAL HOURS SERVICES	\$ 112n/hr
35135D SPECIALIST (SP) NORMAL HOURS SERVICES	\$ 140n/hr
35135G PRODUCT SUPPORT REPRESENTATIVE (PSR) NORMAL HOURS SERVICES	\$ 90n/hr
35135H PSR OFF-HOURS SERVICES	\$ 125n/hr
35135I SE OFF-HOURS SERVICES	\$ 155n/hr
35135J SP OFF-HOURS SERVICES	\$ 195n/hr
35135K PSR WEEKEND RATE SERVICES	\$ 155n/hr
35135L SE WEEKEND RATE SERVICES	\$ 195n/hr
35135M SP WEEKEND RATE SERVICES	\$ 245n/hr

TRAVEL CHARGE OPTIONS FOR HP 51413A-51424A CONSULTING SERVICES AND HP 35135C-M PROJECT SERVICES

-101 Zone 1 Travel Charge	120n
-102 Zone 2 Travel Charge	210n
-103 Zone 3 Travel Charge	280n
-104 Zone 4 Travel Charge	440n
-105 Beyond Zone 4 Travel Charge	Spec Quote

HP 1000 Products Not Recommended for New Applications

(Order from supplying division 2200, except where otherwise specified)

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
12040C 8 CHAN ASYNC MULTIPLEXER (5200) with connector panel.	\$ 2,340f/\$ 13
-002 Use w/37214A Systems Modem (deletes connector panel).	-400f/\$ 0
-003 Edge conn kit instead of panel and connecting cable.	-500f/\$ 0
12728J 18-SLOT CARD CAGE KIT	\$ 1,130d/n.a.
12771A DS/1000 COMPUTER SERIAL I/F (5200) to HP 1000 used w/91740A/B software-firmware & 91720A/ 91721A cables	\$ 1,780d/\$ 19
12773A DS/1000 COMPUTER MODEM I/F (5200) to HP 1000 used w/91740A/B software-firmware & modems (req 12620A priv int fence)	\$ 810d/\$ 10
91720A 76m/250 ft COMM CABLE WITH (5200) UNASSEMBLED CONNECTORS for use with 12771A interface	\$ 480d/n.a.
-001 Incr. length to 152m/500 ft	480f/n.a.
-002 Incr. length to 297m/975 ft	1,230f/n.a.
91721A 76m/250 ft COMM CABLE WITH (5200) ASSEMBLED CONNECTORS for use with 12771A interface	\$ 635d/n.a.
-001 Incr. length to 152m/500 ft	480f/n.a.
-002 Incr. length to 297m/975 ft	1,230d/n.a.
13304A FIRMWARE ACCESSORY BOARD	\$ 445d/\$ 3
2109EK E-SERIES BOARD COMPUTER with 84 kB memory	\$ 3,815d/n.a.
-014 Deletes 64 kB memory	-2,240d/n.a.

Ordering HP 1000 System Software

Software Use Levels

Original Product. The highest use level is the Original software product, which has an A or B product number suffix. The Original product includes the software on the customer's choice of delivery media, a set of manuals, the right to use the product on one system, and the right to purchase right-to-copy (R-suffix) and right-to-execute (E-suffix) products.

Right-to-Copy Product. The Original product entitles the customer to purchase one or more rights to copy that software to an additional system(s). At a lower price than the Original product, each right-to-copy (R-suffix) product includes a set of manuals and the right to copy and use the Original product on one system. Such use includes the right to use the copy in any way that the Original product can be used.

Right-to-Execute Product. An Original operating system, and a few other Original products entitles the customer to purchase rights to execute that software on additional systems. At a lower price than the R-suffix product, the right-to-execute (E-suffix) product includes the right to run the Original product and applications on one target system. It does NOT include manuals or the right to develop programs or generate systems on the target system.

Software Use Options

Most HP 1000 software products are matched to the processor on which the software is to be used by Use Options. This equates the price of software with its execution value, which increases with the speed and power of the processor. Software for use with A400 computers is ordered with Use Option 400. At progressively higher prices, software for use with A600+ computers is ordered with Use Option 600, or in an upgrade situation, with Use Option 601, 602, etc.; software for use with A700 or E/F-Series computers is ordered with Use Option 700, 701, 702, etc.; and software for use with A900 computers is ordered with Use Option 890, 891, 892, 894, 896, or 897.

General License to Use

With some software products, as noted on pages 38 through 43 of the price tables, Use Option 890 licenses use in any supporting HP 1000 computers and includes the right to purchase rights-to-copy the Original product with any of Use Options 400, 600, 700, or 890.

Software Media Options

HP 1000 software is available on a wide variety of media, although the choice of distribution media differs with the respective Original products, as noted in the price tables on pages 37 through 44. HP 1000 software distribution media options are:

022	CS/80 or SS/80 Cartridge Tape
031*	7906M Cartridge Disc
032*	7920M Disc Pack
033*	7925M Disc Pack
041#	1.2 MB Flexible Discs for 9895A
042#	5.25-inch Flexible Discs for Model 6 Microsystem
044	Microfloppy discs in single-sided 270 kB format for use in Micro 24, 26, 27, and 29 systems.
050	800 cpl, 9-track mag tape
051	1600 cpl, 9-track mag tape
052*	800 cpl, 9-track mag tape in 7906M/7920M format
053*	1600 cpl, 9-track mag tape in 7906M/7920M format
054*	800 cpl, 9-track mag tape in 7925M format
055*	1600 cpl, 9-track mag tape in 7925M format
060*	800 cpl, 9-track mag tape in CS/80 format
061*	1600 cpl, 9-track mag tape in CS/80 format

* Available only for RTE-6/VM.

Media option for a discontinued product.

Ways to Purchase HP 1000 Software

Operating System Included in SPU. HP 1000 System Processor Units (SPUs) include the RTE system, which provides the foundation for other HP software and user-developed application programs. The RTE system is furnished on media specified by an SPU Media Option. The RTE system purchased in this way is like the Original product, as described above, but its purchase with the SPU does NOT include the right to purchase right-to-copy or right-to-execute products for additional system.

Software Purchased Individually. All HP 1000 Software can be purchased individually, as Original software, with all accompanying rights as discussed in the *Software Use Levels* section, above.

Active Software Operating Systems

Active Software Operating Systems, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
RTE-A REAL-TIME EXECUTIVE SYSTEM PRODUCTS		
92077A (2200)	RTE-A OPERATING SYSTEM SOFTWARE for A-Series computer with 0.5 to 24 MB of memory. Must order one of Media Opt 022-061 and one of Use Opt 400-897.	See Options 400-897, below
-022	CS/80 cartridge tape media, including primary system.	\$ 0f/\$ 0
-044	270 kB microfloppy disc media, incl. primary system.	\$ 0f/\$ 0
-051	1600 cpi, 9-tr mag tape media (no primary system)	\$ 0f/\$ 0
-061	1600 cpi, 9-tr mag tape media in CS/80 format, including primary system	\$ 0f/\$ 0
-400	Use in A400 computer	\$ 1,000d/\$ 0
-600	Use in A600+/A600* computer	\$ 2,000d/\$ 0
-601	Upgrade to latest version in A600+ for user NOT subscribing to support updates	\$ 1,200d/\$ 0
-700	Use in A700 computer	\$ 4,000d/\$ 0
-701	Upgrade to latest version in A700 for user NOT subscribing to support updates	\$ 2,400d/\$ 0
-890	Use in A900 computer	\$ 7,000d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates	\$ 4,200d/\$ 0
-894	Upgrade from use in A400.	\$ 6,000d/\$ 0
-896	Upgrade from use in A600+.	\$ 5,000d/\$ 0
-897	Upgrade from use in A700.	\$ 2,000d/\$ 0
92077R (2200)	RIGHT TO COPY 92077A RTE-A SOFTWARE to one additional computer, including manuals and right to use for application development. Must order one of Use Opt 400-897.	See Options 400-897, below
-100	Deletes manuals	\$ -150d/\$ 0
-400	Use in A400 computer	\$ 500d/\$ 0
-600	Use in A600+/A600* computer	\$ 1,000d/\$ 0
-601	Upgrade to latest version in A600+ for user NOT subscribing to support updates	\$ 600d/\$ 0
-700	Use in A700 computer	\$ 2,000d/\$ 0
-701	Upgrade to latest version in A700 for user NOT subscribing to support updates	\$ 1,200d/\$ 0
-890	Use in A900 computer	\$ 3,500d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates	\$ 2,100d/\$ 0
-894	Upgrade from use in A400.	\$ 3,000d/\$ 0
-896	Upgrade from use in A600+.	\$ 2,500d/\$ 0
-897	Upgrade from use in A700.	\$ 1,500d/\$ 0
92077E (2200)	RIGHT TO EXECUTE 92077A RTE-A SOFTWARE on one target computer. Does not include manuals or use for application development. Must order one of Use Opt 400-897.	See Options 400-897, below
-400	Use in A400 computer	\$ 250d/\$ 0
-600	Use in A600+/A600* computer	\$ 500d/\$ 0
-601	Upgrade to latest version in A600+ for user NOT subscribing to support updates	\$ 300d/\$ 0
-700	Use in A700 computer	\$ 1,000d/\$ 0
-701	Upgrade to latest version in A700 for user NOT subscribing to support updates	\$ 600d/\$ 0
-890	Use in A900 computer	\$ 1,750d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates	\$ 1,050d/\$ 0
-894	Upgrade from use in A400.	\$ 1,500d/\$ 0
-896	Upgrade from use in A600+.	\$ 1,250d/\$ 0
-897	Upgrade from use in A700.	\$ 750d/\$ 0

* A600 computers or systems with serial prefix earlier than 2326 must be upgraded to work with RTE-A; contact your HP Customer Engineer or your nearest HP Sales Office for more information.

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
VIRTUAL MEMORY FOR PROGRAMS IN RTE-A OPERATING SYSTEM		
92078A (2200)	RTE-A VIRTUAL CODE+ (VC+) SYSTEM ENHANCEMENT PACKAGE. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022	CS/80 cartridge tape media.	\$ 0f/\$ 0
-044	270 kB microfloppy disc media.	\$ 0f/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-061	1600 cpi, 9-tr mag tape media in CS/80 format.	\$ 0f/\$ 0
-400	Use in A400 computer	\$ 750d/\$ 0
-600	Use in A600+/A600 computer	\$ 1,500d/\$ 0
-601	Upgrade to latest version in A600+ for user NOT subscribing to support updates	\$ 900d/\$ 0
-700	Use in A700 computer	\$ 3,000d/\$ 0
-701	Upgrade to latest version in A700 for user NOT subscribing to support updates	\$ 1,800d/\$ 0
-890	Use in A900 computer	\$ 5,000d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates	\$ 3,000d/\$ 0
-894	Upgrade from use in A400.	\$ 4,250d/\$ 0
-896	Upgrade from use in A600+.	\$ 3,500d/\$ 0
-897	Upgrade from use in A700.	\$ 2,000d/\$ 0
92078R (2200)	RIGHT TO COPY 92078A VC+ SOFTWARE to one additional computer, including manuals and right to use for application development. Must order one of Use Opt 400-897.	See Options 400-897, below
-400	Use in A400 computer	\$ 375d/\$ 0
-600	Use in A600+/A600 computer	\$ 750d/\$ 0
-601	Upgrade to latest version in A600+ for user NOT subscribing to support updates	\$ 450d/\$ 0
-700	Use in A700 computer	\$ 1,500d/\$ 0
-701	Upgrade to latest version in A700 for user NOT subscribing to support updates	\$ 900d/\$ 0
-890	Use in A900 computer	\$ 2,500d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates	\$ 1,500d/\$ 0
-894	Upgrade from use in A400.	\$ 2,125d/\$ 0
-896	Upgrade from use in A600+.	\$ 1,750d/\$ 0
-897	Upgrade from use in A700.	\$ 1,000d/\$ 0
92078E (2200)	RIGHT TO EXECUTE 92078A VC+ SOFTWARE on one target computer. Does not include manuals or use for application development. Must order one of Use Opt 400-897.	See options 400-897, below
-400	Use in A400 computer	\$ 190d/\$ 0
-600	Use in A600+/A600* computer	\$ 375d/\$ 0
-601	Upgrade to latest version in A600+ for user NOT subscribing to support updates	\$ 225d/4 0
-700	Use in A700 computer	\$ 750d/\$ 0
-701	Upgrade to latest version in A700 for user NOT subscribing to support updates	\$ 450d/\$ 0
-890	Use in A900 computer	\$ 1,250d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates	\$ 750d/4 0
-894	Upgrade from use in A400.	\$ 1,060d/\$ 0
-896	Upgrade from use in A600+.	\$ 875d/\$ 0
-897	Upgrade from use in A700.	\$ 500d/\$ 0

RTE-6/VM REAL-TIME EXECUTIVE SYSTEM PRODUCTS

92084A (2200)	RTE-6/VM OPERATING SYSTEM SOFTWARE for E/F-Series computer with 256 kB# to 2 MB of memory. Must order one of Media Opt 022-061.	\$ 7,200d/\$ 6
-001	Upgrade discount (from RTE-IV/IVB or earlier RTE-6/VM for user NOT subscribing to support updates.	\$-2,880f/\$ 0
-002	Upgrade discount (from RTE-IV/IVB for user who IS subscribing to support updates.	\$-5,040f/\$ 0
-022	CS/80 cartridge tape media, including primary system.	\$ 0f/\$ 0
-031	7905/7906M/MR disc cartridge media.	\$ 200f/\$ 0
-032	7920M disc pack media.	\$ 550f/\$ 0
-033	7925M disc pack media.	\$ 900f/\$ 0
-050	800 cpi, 9-tr mag tape media in WRITT format.	\$ 0f/\$ 0

* The RTE-6/VM primary system supplied with all RTE-6/VM systems requires at least 512 kB of memory.

Active Software Operating Systems, Continued

PROD.NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
RTE-6/VM REAL-TIME EXECUTIVE SYSTEM PRODUCTS, continued		
92084A (2200)	RTE-6/VM OPERATING SYSTEM SOFTWARE, continued	
-051	1600 cpi, 9-tr mag tape media in WRITT format.	\$ 0f/\$ 0
-052	800 cpi, 9-tr mag tape media in 7906M/7920M image format and on-line backup utilities on 264x cartridge tape.	\$ 0f/\$ 0
-053	Similar to 052, above, but on 1600 cpi, 9-tr mag tape.	\$ 0f/\$ 0
-054	Similar to 052, above, but in 7925M image format.	\$ 0f/\$ 0
-055	Similar to 052, above, but in 7925M image format on 1600 cpi, 9-tr mag tape.	\$ 0f/\$ 0
-060	Similar to 052, above, but in CS/80 format on 800 cpi, 9-tr mag tape.	\$ 0f/\$ 0
-061	Similar to 052, above, but in CS/80 format on 1600 cpi, 9-tr mag tape.	\$ 0f/\$ 0
92084R (2200)	RIGHT TO COPY 92084A RTE-6/VM SOFTWARE to one additional computer, including manuals and right to use for application development.	\$ 3,600d/\$ 6
-001	Upgrade discount (from RTE-IV/IVB or earlier RTE-6/VM for user NOT subscribing to support updates).	\$ -1,440f/\$ 0
-002	Upgrade discount (from RTE-IV/IVB for user who IS subscribing to support updates).	\$ -2,520f/\$ 0
-100	Deletes manuals	\$ -150f/\$ 0

Active Programming Languages

PROD.NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
FORTRAN COMPILER PRODUCTS		
92836A (2200)	FORTAN 77 for A/E/F-Series computers operating under RTE-A or RTE-6/VM. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022	CS/80 cartridge tape media.	\$ 0f/\$ 0
-041	1.2 MB flexible disc media.	\$ 0f/\$ 0
-042	5.25-in. minifloppy disc media.	\$ 0f/\$ 0
-044	270 kB microfloppy disc media.	\$ 0f/\$ 0
-050	800 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-400	Use in A400 computer.	\$ 1,500d/\$ 0
-600	Use in A600+/A600 computer.	\$ 3,000d/\$ 0
-700	Use in A700 or E/F-Series computer.	\$ 4,500d/\$ 0
-703	Upgrade from 92834A for use in E/F-Series for user who IS subscribing to support updates for 92834A.	\$ 1,500d/\$ 0
-704	Upgrade from 92834A for use in E/F-Series for user who NOT subscribing to support updates for 92834A.	\$ 3,500d/\$ 0
-890	General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 92836R Opt 400/600/700/890 right to copy products for additional computers.	\$ 6,000d/\$ 0
-891	Upgrade from 92836A Opt 890 or Opt 700 to latest version of Opt 890 for user NOT subscribing to support updates.	\$ 3,800d/\$ 0
-894	Upgrade from use in A400.	\$ 4,500d/\$ 0
-896	Upgrade from use in A600+.	\$ 3,000d/\$ 0
-897	Upgrade from use in A700.	\$ 1,500d/\$ 0
92836R (2200)	RIGHT TO COPY 92836A FORT-RAN 77 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400	Use in A400 computer.	\$ 750d/\$ 0
-600	Use in A600+/A600 computer.	\$ 1,500d/\$ 0
-700	Use in A700 computer.	\$ 2,250d/\$ 0

Active Programming Languages, Continued

PROD.NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
FORTRAN COMPILER PRODUCTS, continued		
92836R (2200)	RIGHT TO COPY 92836A FORT-RAN 77 SOFTWARE, continued	See Options 703-897, below
-703	Upgrade from 92834R for use in E/F-Series for user who IS subscribing to support updates for 92834R.	\$ 750d/\$ 0
-704	Upgrade from 92834R for use in E/F-Series for user NOT subscribing to support updates for 92834R.	\$ 1,750d/\$ 0
-890	Use in A900 computer.	\$ 3,000d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates.	\$ 1,800d/\$ 0
-894	Upgrade from use in A400.	\$ 2,250d/\$ 0
-896	Upgrade from use in A600+.	\$ 1,500d/\$ 0
-897	Upgrade from use in A700.	\$ 750d/\$ 0
PASCAL COMPILER PRODUCTS		
92833A (2200)	PASCAL/1000 for A/E/F-Series computers with 1 MB or more memory operating under RTE-A or RTE-6/VM. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022	CS/80 cartridge tape media.	\$ 0f/\$ 0
-041	1.2 MB flexible disc media.	\$ 0f/\$ 0
-042	5.25-in. minifloppy disc media.	\$ 0f/\$ 0
-044	270 kB microfloppy disc media.	\$ 0f/\$ 0
-050	800 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-400	Use in A400 computer.	\$ 1,500d/\$ 0
-600	Use in A600+/A600 computer.	\$ 3,000d/\$ 0
-700	Use in A700 or E/F-Series computer.	\$ 4,500d/\$ 0
-702	Upgrade from 92832A for use in E/F-Series for user who IS subscribing to support updates for 92832A.	\$ 0f/\$ 0
-890	General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 92833R Opt 400/600/700/890 right to copy products for additional computers.	\$ 6,000d/\$ 0
-891	Upgrade from 92833A Opt 890 or Opt 700 to latest version of Opt 890 for user NOT subscribing to support updates.	\$ 3,600d/\$ 0
-894	Upgrade from use in A400.	\$ 4,500d/\$ 0
-896	Upgrade from use in A600+.	\$ 3,000d/\$ 0
-897	Upgrade from use in A700.	\$ 1,500d/\$ 0
92833R (2200)	RIGHT TO COPY 92833A PASCAL/1000 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400	Use in A400 computer.	\$ 750d/\$ 0
-600	Use in A600+/A600 computer.	\$ 1,500d/\$ 0
-700	Use in A700 computer.	\$ 2,250d/\$ 0
-702	Upgrade from 92832R for use in E/F-Series for user who IS subscribing to support updates for 92832R.	\$ 0d/\$ 0
-890	Use in A900 computer.	\$ 3,000d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates.	\$ 1,800d/\$ 0
-894	Upgrade from use in A400.	\$ 2,250d/\$ 0
-896	Upgrade from use in A600+.	\$ 1,500d/\$ 0
-897	Upgrade from use in A700.	\$ 750d/\$ 0
BASIC LANGUAGE PRODUCTS		
92857A (2200)	BASIC/1000C INTERPRETER AND COMPILER for A/E/F-Series computers w/768 kB or more memory operating under RTE-A or RTE-6/VM. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, next page
-022	CS/80 cartridge tape media.	\$ 0f/\$ 0
-041	1.2 MB flexible disc media.	\$ 0f/\$ 0
-042	5.25-in. minifloppy disc media.	\$ 0f/\$ 0
-044	270 kB microfloppy disc media.	\$ 0f/\$ 0
-050	800 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0

Active Programming Languages, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
BASIC LANGUAGE PRODUCTS, continued		
92857A (2200)	BASIC/1000C INTERPRETER AND COMPILER, continued	See Options 400-897, below
-400	Use in A400 computer.	\$ 1,500d/\$ 0
-600	Use in A600+/A600 computer.	\$ 3,000d/\$ 0
-603	Upgrade from 92076A BASIC/1000L for use in A600 for user who IS subscribing to support updates for 92076A.	\$ 2,500d/\$ 0
-700	Use in A700 or E/F-Series computer.	\$ 4,500d/\$ 0
-703	Upgrade from 92076A BASIC/1000L in A700 or 92101A BASIC/1000D in E/F-Series for user who IS subscribing to support updates for 92076A or 92101A.	\$ 4,000d/\$ 0
-890	General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 92857R Opt 400/600/700/890 right to copy products for additional computers.	\$ 6,000d/\$ 0
-891	Upgrade from 92833A Opt 890 or Opt 700 to latest version of Opt 890 for user NOT subscribing to support updates.	\$ 3,600d/\$ 0
-894	Upgrade from use in A400.	\$ 4,500d/\$ 0
-896	Upgrade from use in A600+.	\$ 3,000d/\$ 0
-897	Upgrade from use in A700.	\$ 1,500d/\$ 0
92857R (2200)	RIGHT TO COPY 92857A BASIC/1000C SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400	Use in A400 computer	\$ 750d/\$ 0
-600	Use in A600+/A600 computer	\$ 1,500d/\$ 0
-700	Use in A700 computer	\$ 2,250d/\$ 0
-890	Use in A900 computer	\$ 3,000d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates.	\$ 1,800d/\$ 0
-894	Upgrade from use in A400.	\$ 2,250d/\$ 0
-896	Upgrade from use in A600+.	\$ 1,500d/\$ 0
-897	Upgrade from use in A700.	\$ 750d/\$ 0

RTE MICROPROGRAM DEVELOPMENT PRODUCTS

92049A (2200)	RTE MICROPROGRAMMING PACKAGE for A900 computer oper under RTE-A. Requires 12205A Control Store card. Must order one of Media Opt 022-051	\$ 4,000d/\$ 0
-022	CS/80 cartridge tape media.	\$ Of/\$ 0
-044	270 kB microfloppy disc media.	\$ Of/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ Of/\$ 0
92049R (2200)	RIGHT TO COPY 92049A RTE MICROPROGRAMMING PACKAGE for A900 to one additional computer. Requires 12205A Control Store card.	\$ 2,000d/\$ 0

Active Productivity Tools

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
MEASUREMENT AND CONTROL SOFTWARE PRODUCTS		
91823A (2200)	CONTROL/1000 SOFTWARE PACKAGE for A600 computer operating under RTE-A. Must order one of Media Opt 022-051 and Use Opt 600.	See Option 600, below
-022	CS/80 cartridge tape media.	\$ Of/\$ 0
-041	1.2 MB flexible disc media.	\$ Of/\$ 0
-042	5.25-in. minifloppy disc media.	\$ Of/\$ 0
-044	270 kB microfloppy disc media.	\$ Of/\$ 0
-050	800 cpi, 9-tr mag tape media	\$ Of/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ Of/\$ 0
-600	Use in A600+/A600 computer.	\$ 3,250d/\$ 0
91823R (2200)	RIGHT TO COPY 91823A CONTROL/1000 SOFTWARE to one additional computer. Must Use Option 600.	See Option 600, below
-600	Use in A600+/A600 computer	\$ 1,625d/\$ 0

Active Productivity Tools, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE/BMMC
PROGRAM PROFILING AND DEBUGGING PRODUCTS		
92083A (2200)	RTE PROFILE MONITOR for E/F-Series computer operating under RTE-6/VM or RTE-IVB. Must order one of Media Opt 022-051.	\$ 2,100d/\$ 0
-022	CS/80 cartridge tape media.	\$ Of/\$ 0
-050	800 cpi, 9-tr mag tape media	\$ Of/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ Of/\$ 0
92083R (2200)	RIGHT TO COPY 92083A RTE PROFILE MONITOR to one additional computer.	\$ 1,050d/\$ 0
92860A (2200)	SYMBOLIC DEBUG/1000 for A/E/F-Series computers operating under RTE-A or RTE-6/VM. Must order one of Media Opt Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022	CS/80 cartridge tape media.	\$ Of/\$ 0
-041	1.2 MB flexible disc media.	\$ Of/\$ 0
-042	5.25-in. minifloppy disc media.	\$ Of/\$ 0
-044	270 kB microfloppy disc media.	\$ Of/\$ 0
-050	800 cpi, 9-tr mag tape media	\$ Of/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ Of/\$ 0
-400	Use in A400 computer.	\$ 1,500d/\$ 0
-600	Use in A600+/A600 computer.	\$ 2,500d/\$ 0
-700	Use in A700 or E/F-Series computer.	\$ 3,500d/\$ 0
-890	General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 92860R Opt 400/600/700/890 right to copy products for additional computers.	\$ 4,500d/\$ 0
-891	Upgrade from 92860A Opt 890 or Opt 700 to latest version of Opt 890 for user NOT subscribing to support updates.	\$ 2,700d/\$ 0
-894	Upgrade from use in A400.	\$ 3,000d/\$ 0
-896	Upgrade from use in A600+.	\$ 2,000d/\$ 0
-897	Upgrade from use in A700.	\$ 1,000d/\$ 0
92860R (2200)	RIGHT TO COPY 92860A SYMBOLIC DEBUG/1000 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400	Use in A400 computer	\$ 750d/\$ 0
-600	Use in A600+/A600 computer	\$ 1,250d/\$ 0
-700	Use in A700 computer	\$ 1,750d/\$ 0
-890	Use in A900 computer	\$ 2,250d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates.	\$ 1,350d/\$ 0
-894	Upgrade from use in A400.	\$ 1,500d/\$ 0
-896	Upgrade from use in A600+.	\$ 1,000d/\$ 0
-897	Upgrade from use in A700.	\$ 500d/\$ 0

SOFTWARE PRODUCTS FOR PROGRAM-TO-PROGRAM COMMUNICATION WITH IBM SYSTEMS

91784A (5200)	PMF/1000 SOFTWARE for program-to-program communication between A/E/F-Series systems operating under RTE-A or RTE-6/VM and IBM or plug-compatible systems. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below and next page
-022	CS/80 cartridge tape media.	\$ Of/\$ 0
-041	1.2 MB flexible disc media.	\$ Of/\$ 0
-042	5.25-in. minifloppy disc media.	\$ Of/\$ 0
-044	270 kB microfloppy disc media.	\$ Of/\$ 0
-050	800 cpi, 9-tr mag tape media	\$ Of/\$ 0
-051	1600 cpi, 9-tr mag tape media.	\$ Of/\$ 0
-400	Use in A400 computer	\$ 2,800d/\$ 0
-600	Use in A600+/A600 computer	\$ 4,000d/\$ 0
-601	Upgrade to latest version in A600+ for user NOT subscribing to support updates	\$ 2,400d/\$ 0
-700	Use in A700 computer	\$ 5,000d/\$ 0
-701	Upgrade to latest version in A700 for user NOT subscribing to support updates	\$ 3,000d/\$ 0
-890	Use in A900 computer	\$ 7,000d/\$ 0
-891	Upgrade to latest version in A900 for user NOT subscribing to support updates.	\$ 4,200d/\$ 0
-896	Upgrade from use in A600+.	\$ 3,000d/\$ 0
-897	Upgrade from use in A700.	\$ 2,000d/\$ 0

Active Productivity Tools, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
SOFTWARE PRODUCTS FOR PROGRAM-TO-PROGRAM COMMUNICATION WITH IBM SYSTEMS, continued	
91784R (5200) RIGHT TO COPY 91784A PMF/\$ 1000 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 1,960d/\$ 0
-600 Use in A600+/A600* computer	\$ 2,800d/\$ 0
-601 Upgrade to latest version in A600+ for user NOT subscribing to support updates	\$ 1,680d/\$ 0
-700 Use in A700 computer	\$ 3,500d/\$ 0
-701 Upgrade to latest version in A700 for user NOT subscribing to support updates	\$ 2,100d/\$ 0
-890 Use in A900 computer	\$ 4,900d/\$ 0
-891 Upgrade to latest version in A900 for user NOT subscribing to support updates	\$ 2,940d/\$ 0
-896 Upgrade from use in A600+	\$ 2,100d/\$ 0
-897 Upgrade from use in A700.	\$ 1,400d/\$ 0

PROGRAMMABLE CONTROLLER COMM. SOFTWARE PRODUCTS

94200B (2200) PCIF/1000 SOFTWARE for interfacing programmable logic controllers to A-Series systems operating under RTE-A. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022 CS/80 cartridge tape media.	\$ Of/\$ 0
-044 270 kB microfloppy disc media.	\$ Of/\$ 0
-050 800 cpi, 9-tr mag tape media	\$ Of/\$ 0
-051 1600 cpi, 9-tr mag tape media.	\$ Of/\$ 0
-400 Use in A400 computer	\$ 1,000d/\$ 0
-600 Use in A600+/A600* computer	\$ 2,000d/\$ 0
-700 Use in A700 computer	\$ 2,250d/\$ 0
-890 Use in A900 computer	\$ 3,000d/\$ 0
-894 Upgrade from use in A400.	\$ 2,000d/\$ 0
-896 Upgrade from use in A600+.	\$ 1,000d/\$ 0
-897 Upgrade from use in A700.	\$ 750d/\$ 0
94200R (2200) RIGHT TO COPY 94200B PCIF/1000 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 500d/\$ 0
-600 Use in A600+/A600* computer	\$ 1,000d/\$ 0
-700 Use in A700 computer	\$ 1,125d/\$ 0
-890 Use in A900 computer	\$ 1,500d/\$ 0
-894 Upgrade from use in A400.	\$ 1,000d/\$ 0
-896 Upgrade from use in A600+.	\$ 500d/\$ 0
-897 Upgrade from use in A700.	\$ 375d/\$ 0
94202A (2200) PCIF/1000 DEVICE HANDLER FOR ALLEN-BRADLEY PLCs, for communication via 12041B interface. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022, 044, 050, and 051: Same as for 94200B, above.	\$ Of/\$ 0
-400 Use in A400 computer	\$ 1,000d/\$ 0
-600 Use in A600+/A600* computer	\$ 1,500d/\$ 0
-700 Use in A700 computer	\$ 2,000d/\$ 0
-890 Use in A900 computer	\$ 3,000d/\$ 0
-894 Upgrade from use in A400.	\$ 2,000d/\$ 0
-896 Upgrade from use in A600+.	\$ 1,500d/\$ 0
-897 Upgrade from use in A700.	\$ 1,000d/\$ 0
94202R (2200) RIGHT TO COPY 94202A PCIF/1000 DEVICE HANDLER FOR ALLEN-BRADLEY PLCs to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 500d/\$ 0
-600 Use in A600+/A600* computer	\$ 750d/\$ 0
-700 Use in A700 computer	\$ 1,000d/\$ 0
-890 Use in A900 computer	\$ 1,500d/\$ 0
-894 Upgrade from use in A400.	\$ 1,000d/\$ 0
-896 Upgrade from use in A600+.	\$ 750d/\$ 0
-897 Upgrade from use in A700.	\$ 500d/\$ 0
94203A (2200) PCIF/1000 DEVICE HANDLER FOR GOULD-MODICON PLCs, for communication via 12040C/D interface. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897 under 94202A, above
-022, 044, 050, and 051: Same as for 94200B, above.	\$ Of/\$ 0
-400 through 897: Same as for 94202A, above.	

Active Productivity Tools, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
PROGRAMMABLE CONTROLLER COMM. SOFTWARE PRODUCTS, continued	
94203R (2200) RIGHT TO COPY 94203A PCIF/1000 DEVICE HANDLER FOR GOULD-MODICON PLCs to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897 under 94202R, above
-400 through 897: Same as for 94202R, above.	
94204A (2200) PCIF/1000 DEVICE HANDLER FOR SIEMENS PLCs, for communication via 12041B interface. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897 under 94202A, above
-022, 044, 050, and 051: Same as for 94200B, above.	\$ Of/\$ 0
-400 through 897: Same as for 94202A, above.	
94204R (2200) RIGHT TO COPY 94204A PCIF/1000 DEVICE HANDLER FOR SIEMENS PLCs to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897 under 94202R, above
-400 through 897: Same as for 94202R, above.	
94205A (2200) PCIF/1000 DEVICE HANDLER FOR TELEMECANIQUE PLCs, for communication via 12041B interface. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897 under 94202A, above
-022, 044, 050, and 051: Same as for 94200B, above.	\$ Of/\$ 0
-400 through 897: Same as for 94202A, above.	
94205R (2200) RIGHT TO COPY 94205A PCIF/1000 DEVICE HANDLER FOR TELEMECANIQUE PLCs to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897 under 94202R, above
-400 through 897: Same as for 94202R, above.	
94206A (2200) PCIF/1000 DEVICE HANDLER FOR GENERAL ELECTRIC PLCs, for communication via 12041B interface. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897 under 94202A, above
-022, 044, 050, and 051: Same as for 94200B, above.	\$ Of/\$ 0
-400 through 897: Same as for 94202A, above.	
94206R (2200) RIGHT TO COPY 94206A PCIF/1000 DEVICE HANDLER FOR GENERAL ELECTRIC PLCs to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897 under 94202R, above
-400 through 897: Same as for 94202R, above.	

Active Data Management Software

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
DISC MIRRORING SOFTWARE PRODUCTS	
92050A (2200) DATAPAIR/1000 to support paired disc files in A-Series systems operating under RTE-A. Must order Media Opt 022 or 051 and one of Use Opt 400-897.	See Options 400-897, below
-022 CS/80 cartridge tape media.	\$ Of/\$ 0
-051 1600 cpi, 9-tr mag tape media.	\$ Of/\$ 0
-400 Use in A400 computer	\$ 2,000d/\$ 0
-600 Use in A600+/A600* computer	\$ 3,500d/\$ 0
-700 Use in A700 computer	\$ 5,000d/\$ 0
-890 Use in A900 computer	\$ 6,500d/\$ 0
-894 Upgrade from use in A400.	\$ 4,500d/\$ 0
-896 Upgrade from use in A600+.	\$ 3,000d/\$ 0
-897 Upgrade from use in A700.	\$ 1,550d/\$ 0

Active Data Management Software, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
DISC MIRRORING SOFTWARE PRODUCTS, Continued	
92050R (2200) RIGHT TO COPY 92050A DATA-PAIR/1000 to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 1,000d/\$ 0
-600 Use in A600+/A600 computer	\$ 1,750d/\$ 0
-700 Use in A700 computer	\$ 2,500d/\$ 0
-890 Use in A900 computer	\$ 3,250d/\$ 0
-894 Upgrade from use in A400.	\$ 2,250d/\$ 0
-896 Upgrade from use in A600+.	\$ 1,500d/\$ 0
-897 Upgrade from use in A700.	\$ 750d/\$ 0

DATA BASE MANAGEMENT SYSTEM PRODUCTS

92069A (2200) IMAGE/1000 DATA BASE MANAGEMENT SYSTEM for A/E/F-Series computers with 797xA/B/E Mag Tape Unit or second removable media disc for data base backup operating under RTE-A, RTE-6/VM, or RTE-IVB. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-041 1.2 MB flexible disc media.	\$ 0f/\$ 0
-042 5.25-in. minifloppy disc media.	\$ 0f/\$ 0
-044 270 kB microfloppy disc media.	\$ 0f/\$ 0
-050 800 cpi, 9-tr mag tape media	\$ 0f/\$ 0
-051 1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-400 Use in A400 computer.	\$ 1,500d/\$ 0
-600 Use in A600+/A600 computer.	\$ 3,000d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,800d/\$ 0
-700 Use in A700 or E/F-Series computer.	\$ 5,000d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 3,000d/\$ 0
-890 General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 92069R Opt 400/600/700/890 right to copy products for additional computers.	\$ 8,000d/\$ 0
-891 Upgrade from 92069A Opt 890 or Opt 700 to latest version of Opt 890 for user NOT subscribing to support updates.	\$ 4,800d/\$ 0
-894 Upgrade from use in A400.	\$ 6,500d/\$ 0
-896 Upgrade from use in A600+.	\$ 5,000d/\$ 0
-897 Upgrade from use in A700.	\$ 3,000d/\$ 0
92069R (2200) RIGHT TO COPY 92069A IMAGE/1000 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 750d/\$ 0
-600 Use in A600+/A600 computer	\$ 1,500d/\$ 0
-601 Upgrade to latest version for user NOT subscribing to support updates.	\$ 900d/\$ 0
-700 Use in A700 computer	\$ 2,500d/\$ 0
-701 Upgrade to latest version for user NOT subscribing to support updates.	\$ 1,500d/\$ 0
-890 Use in A900 computer	\$ 4,000d/\$ 0
-891 Upgrade to latest version in A900 for user NOT subscribing to support updates.	\$ 2,400d/\$ 0
-894 Upgrade from use in A400.	\$ 3,250d/\$ 0
-896 Upgrade from use in A600+.	\$ 2,500d/\$ 0
-897 Upgrade from use in A700.	\$ 1,500d/\$ 0
92081A (2200) IMAGE/1000-II DATA BASE MANAGEMENT SYSTEM for A/E/F-Series computers with 797xA/B/E Mag Tape Unit or second removable media disc for data base backup operating under RTE-A or RTE-6/VM. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022, 044, 050, and 051: Same as for 92069A, above.	\$ 0f/\$ 0
-400 Use in A400 computer.	\$ 3,000d/\$ 0
-600 Use in A600+/A600 computer.	\$ 5,000d/\$ 0
-601 Upgrade from 92069A Opt 600 or from previous version of 92081A Opt 600 for user NOT subscribing to support updates.	\$ 3,000d/\$ 0

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
DATA BASE MANAGEMENT SYSTEM PRODUCTS, continued	

92081A (2200) IMAGE/1000-II DATA BASE MANAGEMENT SYSTEM, continued	See Options 890-897, below
-602 Upgrade from 92069A Opt 600 for user who IS subscribing to support updates.	\$ 1,500d/\$ 0
-700 Use in A700 or E/F-Series computer.	\$ 8,000d/\$ 0
-701 Upgrade from 92069A Opt 700 or from previous version of 92081A Opt 700 for user NOT subscribing to support updates.	\$ 4,800d/\$ 0
-702 Upgrade from 92069A Opt 700 for user who IS subscribing to support updates.	\$ 2,400d/\$ 0
-890 General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 92081R Opt 400/600/700/890 right to copy products for additional computers.	\$12,000d/\$ 0
-891 Upgrade from 92069A Opt 890 or from previous version of 92081A Opt 890 for user NOT subscribing to support updates.	\$ 7,200d/\$ 0
-892 Upgrade from 92069A Opt 890 for user who IS subscribing to support updates.	\$ 3,600d/\$ 0
-894 Upgrade from use in A400.	\$ 9,000d/\$ 0
-896 Upgrade from use in A600+.	\$ 7,000d/\$ 0
-897 Upgrade from use in A700.	\$ 4,000d/\$ 0
92081R (2200) RIGHT TO COPY 92081A IMAGE/1000-II SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 1,500d/\$ 0
-600 Use in A600+/A600 computer	\$ 2,500d/\$ 0
-601 Upgrade from 92069R Opt 800 or from previous version of 92081R Opt 600 for user NOT subscribing to support updates.	\$ 1,500d/\$ 0
-602 Upgrade from 92069R Opt 600 for user who IS subscribing to support updates.	\$ 750d/\$ 0
-700 Use in A700 or E/F-Series computer.	\$ 4,000d/\$ 0
-701 Upgrade from 92069R Opt 700 or from previous version of 92081R Opt 700 for user NOT subscribing to support updates.	\$ 2,400d/\$ 0
-702 Upgrade from 92069R Opt 700 for user who IS subscribing to support updates.	\$ 1,200d/\$ 0
-890 Use in A900 computer.	\$ 6,000d/\$ 0
-891 Upgrade from 92069R Opt 890 or from previous version of 92081R Opt 890 for user NOT subscribing to support updates.	\$ 3,600d/\$ 0
-892 Upgrade from 92069R Opt 890 for user who IS subscribing to support updates.	\$ 1,800d/\$ 0
-894 Upgrade from use in A400.	\$ 4,500d/\$ 0
-896 Upgrade from use in A600+.	\$ 3,500d/\$ 0
-897 Upgrade from use in A700.	\$ 2,000d/\$ 0

GRAPHICS/1000-II SOFTWARE PRODUCTS

92861A (2200) GRAPHICS/1000-II Version 2.0 DEVICE-INDEPENDENT GRAPHICS LIBRARY (DGL) for A/E/F-Series computers operating under RTE-A or RTE-6/VM. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below and next page
-022, 044, 050, and 051: Same as for 92069A, above.	\$ 0f/\$ 0
-400 Use in A400 computer.	\$ 700d/\$ 0
-600 Use in A600+/A600 computer.	\$ 1,200d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 750d/\$ 0
-602 Upgrade from 92841A Opt 600 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-603 Upgrade from 92841A Opt 600 for user NOT subscribing to support updates.	\$ 750d/\$ 0
-700 Use in A700 or E/F-Series computer.	\$ 2,000d/\$ 0

Active Data Management Software, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
GRAPHICS/1000-II SOFTWARE PRODUCTS, continued	
92861A GRAPHICS/1000-II Version 2.0 (2200) DEVICE-INDEPENDENT GRAPHICS LIBRARY (DGL), continued	See Options 891-897, below
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,200d/\$ 0
-702 Upgrade from 92841A Opt 700 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-703 Upgrade from 92841A Opt 700 for user NOT subscribing to support updates.	\$ 1,200d/\$ 0
-890 General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 92861R Opt 400/600/700/890 right to copy products for additional computers.	\$ 2,500d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,500d/\$ 0
-892 Upgrade from 92841A Opt 890 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-893 Upgrade from 92841A Opt 890 for user NOT subscribing to support updates.	\$ 1,500d/\$ 0
-894 Upgrade from use in A400.	\$ 1,800d/\$ 0
-896 Upgrade from use in A600+.	\$ 1,300d/\$ 0
-897 Upgrade from use in A700.	\$ 500d/\$ 0
92861R RIGHT TO COPY 92861A DEVICE (2200) INDEPENDENT GRAPHICS LIBRARY to one additional computer. Must order one of Use Opt Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 350d/\$ 0
-600 Use in A600+/A600 computer	\$ 600d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 350d/\$ 0
-602 Upgrade from 92841R Opt 600 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-603 Upgrade from 92841R Opt 600 for user NOT subscribing to support updates.	\$ 350d/\$ 0
-700 Use in A700 or E/F-Series computer.	\$ 1,000d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 600d/\$ 0
-702 Upgrade from 92841R Opt 700 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-703 Upgrade from 92841R Opt 700 for user NOT subscribing to support updates.	\$ 600d/\$ 0
-890 Use in A900 computer.	\$ 1,250d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 750d/\$ 0
-892 Upgrade from 92841R Opt 890 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-893 Upgrade from 92841R Opt 890 for user NOT subscribing to support updates.	\$ 750d/\$ 0
-894 Upgrade from use in A400.	\$ 900d/\$ 0
-896 Upgrade from use in A600+.	\$ 650d/\$ 0
-897 Upgrade from use in A700.	\$ 250d/\$ 0
92862A GRAPHICS/1000-II Version 2.0 (2200) ADVANCED GRAPHICS PACKAGE (AGP) for A/E/F-Series computers operating under RTE-A or RTE-8/VM. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below and next page
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-044 270 kB microfloppy disc media.	\$ 0f/\$ 0
-050 800 cpi, 9-tr mag tape media	\$ 0f/\$ 0
-051 1800 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-400 Use in A400 computer.	\$ 1,400d/\$ 0
-600 Use in A600+/A600 computer.	\$ 2,400d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,500d/\$ 0
-602 Upgrade from 92842A Opt 600 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-603 Upgrade from 92842A Opt 600 for user NOT subscribing to support updates.	\$ 1,500d/\$ 0
-700 Use in A700 or E/F-Series computer.	\$ 4,000d/\$ 0

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
GRAPHICS/1000-II SOFTWARE PRODUCTS, continued	
92862A GRAPHICS/1000-II Version 2.0 (2200) ADVANCED GRAPHICS PACKAGE (AGP), continued	See Options 891-897, below
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 2,400d/\$ 0
-702 Upgrade from 92842A Opt 700 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-703 Upgrade from 92842A Opt 700 for user NOT subscribing to support updates.	\$ 2,400d/\$ 0
-890 General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 92862R Opt 400/600/700/890 right to copy products for additional computers.	\$ 5,000d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 3,000d/\$ 0
-892 Upgrade from 92841A Opt 890 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-893 Upgrade from 92841A Opt 890 for user NOT subscribing to support updates.	\$ 3,000d/\$ 0
-894 Upgrade from use in A400.	\$ 3,600d/\$ 0
-896 Upgrade from use in A600+.	\$ 2,600d/\$ 0
-897 Upgrade from use in A700.	\$ 1,000d/\$ 0
92862R RIGHT TO COPY 92862A (2200) ADVANCED GRAPHICS PACKAGE to one additional computer. Must order one of Use Opt Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 700d/\$ 0
-600 Use in A600+/A600 computer	\$ 1,200d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 750d/\$ 0
-602 Upgrade from 92842R Opt 600 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-603 Upgrade from 92842R Opt 600 for user NOT subscribing to support updates.	\$ 750d/\$ 0
-700 Use in A700 or E/F-Series computer.	\$ 2,000d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,200d/\$ 0
-702 Upgrade from 92842R Opt 700 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-703 Upgrade from 92842R Opt 700 for user NOT subscribing to support updates.	\$ 1,200d/\$ 0
-890 Use in A900 computer.	\$ 2,500d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,500d/\$ 0
-892 Upgrade from 92842R Opt 890 for user who IS subscribing to support updates.	\$ 0d/\$ 0
-893 Upgrade from 92842R Opt 890 for user NOT subscribing to support updates.	\$ 1,500d/\$ 0
-894 Upgrade from use in A400.	\$ 1,800d/\$ 0
-896 Upgrade from use in A600+.	\$ 1,350d/\$ 0
-897 Upgrade from use in A700.	\$ 500d/\$ 0

FORMS DESIGN AND DATA ENTRY PRODUCTS

94250B FORMS/1000-II PACKAGE for (2200) A-Series computers operating under RTE-A. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below and next page
-022, 044, and 051: Same as for 92862A, above.	\$ 0f/\$ 0
-400 Use in A400 computer.	\$ 750d/\$ 0
-600 Use in A600+/A600 computer.	\$ 1,100d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 700d/\$ 0
-700 Use in A700 computer.	\$ 1,350d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 800d/\$ 0

NOTE: HP 94250A FORMS/1000 for HP 1000 E/F-Series systems operating under RTE-8/VM, is listed in the HP Corporate Price List.

Active Data Management Software, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
FORMS DESIGN AND DATA ENTRY PRODUCTS, continued	
94250B FORMS/1000-II PACKAGE, continued	See Options 890-897, below
-890 General license to use in A900 computer or any other A/E/F-Series computer, including right to purchase 94250R Opt 400/600/700/890 right to copy products for additional computers.	\$ 2,000d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,200d/\$ 0
-894 Upgrade from use in A400.	\$ 1,250d/\$ 0
-896 Upgrade from use in A600+.	\$ 900d/\$ 0
-897 Upgrade from use in A700.	\$ 650d/\$ 0
94250R RIGHT TO COPY 94250B FORMS/1000 PACKAGE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 375d/\$ 0
-600 Use in A600+/A600 computer	\$ 550d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 350d/\$ 0
-700 Use in A700 computer.	\$ 675d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 400d/\$ 0
-890 Use in A900 computer.	\$ 1,000d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 600d/\$ 0
-894 Upgrade from use in A400.	\$ 625d/\$ 0
-896 Upgrade from use in A600+.	\$ 450d/\$ 0
-897 Upgrade from use in A700.	\$ 325d/\$ 0
94250E RIGHT TO EXECUTE 94250B FORMS/1000 PACKAGE on one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 200d/\$ 0
-600 Use in A600+/A600 computer	\$ 350d/\$ 0
-700 Use in A700 computer.	\$ 400d/\$ 0
-890 Use in A900 computer.	\$ 600d/\$ 0
-894 Upgrade from use in A400.	\$ 400d/\$ 0
-896 Upgrade from use in A600+.	\$ 250d/\$ 0
-897 Upgrade from use in A700.	\$ 200d/\$ 0

Active Data Communications Software

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
MULTIPOINT/DATA LINK COMM. SOFTWARE PRODUCTS	
91730A MULTIPOINT TERMINAL INTERFACE SOFTWARE for 12790A interface used in E/F-Series computer operating under RTE-6/VM or RTE-IVB. Must order Media Opt 022 or 051.	\$ 265d/\$ 0
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-051 1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
91732A DATA LINK SOFTWARE for 12092A interface used in A-Series computers operating under RTE-A. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-041 1.2 MB flexible disc media.	\$ 0f/\$ 0
-042 5.25-in. minifloppy disc media.	\$ 0f/\$ 0
-044 270 kB microfloppy disc media.	\$ 0f/\$ 0
-051 1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-400 Use in A400 computer	\$ 150d/\$ 0
-600 Use in A600+/A600 computer	\$ 300d/\$ 0
-700 Use in A700 computer	\$ 600d/\$ 0
-890 Use in A900 computer	\$ 900d/\$ 0
-894 Upgrade from use in A400.	\$ 750d/\$ 0
-896 Upgrade from use in A600+.	\$ 600d/\$ 0
-897 Upgrade from use in A700.	\$ 300d/\$ 0

Active Data Communications Software, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
MULTIPOINT/DATA LINK COMM. SOFTWARE PRODUCTS	
91732R RIGHT TO COPY 91732A DATA LINK SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 75d/\$ 0
-600 Use in A600+/A600+ computer	\$ 150d/\$ 0
-700 Use in A700 computer	\$ 300d/\$ 0
-890 Use in A900 computer	\$ 450d/\$ 0
-894 Upgrade from use in A400.	\$ 375d/\$ 0
-896 Upgrade from use in A600+.	\$ 150d/\$ 0
-897 Upgrade from use in A700.	\$ 750d/\$ 0
NS/1000 COMMUNICATIONS SOFTWARE PRODUCTS	
91790A NS/1000 SOFTWARE for A-Ser computer operating under RTE-A w/VC+. Supports LAN communication via 12078A LAN/1000 Link interface, DS/1000-IV point-to-point comm. w/HP 1000 and HP 3000 systems, multidrop data link comm. with other HP 1000 systems, and comm. w/packet switching networks via 91751A X.25 software. Must order Media Opt 022 or 051 and one of Use Opt 400-897.	See Options 400-897, below
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-051 1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-400 Use in A400 computer	\$ 1,500d/\$ 0
-600 Use in A600+/A600 computer	\$ 2,700d/\$ 0
-700 Use in A700 computer	\$ 4,900d/\$ 0
-890 Use in A900 computer	\$ 7,000d/\$ 0
-896 Upgrade from use in A600+.	\$ 4,300d/\$ 0
-897 Upgrade from use in A700.	\$ 2,100d/\$ 0
91790R RIGHT TO COPY 91790A NS/1000 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 1,050d/\$ 0
-600 Use in A600+/A600+ computer	\$ 1,900d/\$ 0
-700 Use in A700 computer	\$ 3,400d/\$ 0
-890 Use in A900 computer	\$ 4,900d/\$ 0
-896 Upgrade from use in A600+.	\$ 3,000d/\$ 0
-897 Upgrade from use in A700.	\$ 1,500d/\$ 0

SOFTWARE PRODUCTS FOR REMOTE JOB ENTRY INTO IBM SYSTEMS

91781A RJE/1000-II SOFTWARE for remote job entry to IBM or plug-compatible systems from A/E/F-Series computers oper under RTE-A or RTE-8/VM. Requires 12043A or 12260A interface. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022, 042, 044, and 051: Same as for 91732A, above.	\$ 0f/\$ 0
-400 Use in A400 computer	\$ 1,600d/\$ 0
-600 Use in A600+/A600 computer	\$ 2,400d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,440d/\$ 0
-700 Use in A700 computer	\$ 3,200d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,920d/\$ 0
-890 Use in A900 computer	\$ 5,000d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 3,000d/\$ 0
-896 Upgrade from use in A600+.	\$ 2,800d/\$ 0
-897 Upgrade from use in A700.	\$ 1,800d/\$ 0
91781R RIGHT TO COPY 91781A RJE/1000-II SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 1,120d/\$ 0
-600 Use in A600+/A600 computer	\$ 1,680d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,010d/\$ 0
-700 Use in A700 computer	\$ 2,240d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,340d/\$ 0
-890 Use in A900 computer	\$ 3,500d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 2,100d/\$ 0
-896 Upgrade from use in A600+.	\$ 1,820d/\$ 0
-897 Upgrade from use in A700.	\$ 1,260d/\$ 0

Active Data Communications Software, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
DS/1000-IV COMMUNICATIONS SOFTWARE PRODUCTS	
91750A (5200) DS/1000-IV NETWORK SOFTWARE for A/E/F-Series computer operating under RTE-A, RTE-6/VM, or RTE-IVB. Supports point-to-point comm. with HP 1000 & HP 3000 systems via 12007A/B, 12044A, 12794A/B, 12825A, 12073A, and 12834A interfaces, multidrop data link comm. with other HP 1000 systems via 12072A, 12092A, 12790A, and 12830A interfaces, and comm. with packet switching networks via 91751A X.25 software. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022 CS/80 cartridge tape media.	\$ Of/\$ 0
-041 1.2 MB flexible disc media.	\$ Of/\$ 0
-042 5.25-in. minifloppy disc media.	\$ Of/\$ 0
-044 270 kB microfloppy disc media.	\$ Of/\$ 0
-050 800 cpi, 9-tr mag tape media	\$ Of/\$ 0
-051 1600 cpi, 9-tr mag tape media.	\$ Of/\$ 0
-400 Use in A400 computer	\$ 1,800d/\$ 0
-600 Use in A600+/A600 computer	\$ 2,700d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,320d/\$ 0
-700 Use in A700 computer	\$ 4,900d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 2,220d/\$ 0
-890 Use in A900 computer	\$ 7,000d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 3,180d/\$ 0
-896 Upgrade from use in A600+.	\$ 3,500d/\$ 0
-897 Upgrade from use in A700.	\$ 1,800d/\$ 0
91750R (5200) RIGHT TO COPY 91750A DS/1000-IV SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 1,260d/\$ 0
-600 Use in A600+/A600 computer	\$ 1,900d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 830d/\$ 0
-700 Use in A700 computer	\$ 3,400d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,560d/\$ 0
-890 Use in A900 computer	\$ 4,900d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 2,220d/\$ 0
-896 Upgrade from use in A600+.	\$ 2,450d/\$ 0
-897 Upgrade from use in A700.	\$ 1,260d/\$ 0

X.25 PACKET-SWITCHING COMMUNICATIONS PRODUCTS

91751A (5200) X.25 COMMUNICATIONS SOFTWARE for A/E/F-Series computers operating under RTE-A or RTE-6/VM. Supports 12075A and 12250A X.25 interfaces. Must order one of Media Opt 022-051.	\$ 4,000d/\$ 0
-001 Discount for upgrade from previous version for user NOT subscribing to support updates.	-1,600f/\$ 0
-022, 044, 050, and 051: Same as for 91750A, above.	\$ Of/\$ 0
91751R (2200) RIGHT TO COPY 91751A X.25 COMMUNICATIONS SOFTWARE to one additional computer.	\$ 2,000d/\$ 0
-001 Discount for upgrade from previous version for user NOT subscribing to support updates.	-800d/\$ 0

Active Data Communications Software, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
SOFTWARE PRODUCTS FOR MULTILEAVING REMOTE JOB ENTRY INTO IBM SYSTEMS	
91782A (5200) MRJE/1000-II SOFTWARE for multileaving remote job entry to IBM or plug-compatible systems from A/E/F-Series computers oper under RTE-A or RTE-6/VM. Requires 12043A or 12260A interface. Must order one of Media Opt 022-051 and one of Use Opt 400-897.	See Options 400-897, below
-022, 042, 044, and 051: Same as for 91750A, above.	\$ Of/\$ 0
-400 Use in A400 computer	\$ 2,000d/\$ 0
-600 Use in A600+/A600 computer	\$ 3,000d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,800d/\$ 0
-700 Use in A700 computer	\$ 4,000d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 2,400d/\$ 0
-890 Use in A900 computer	\$ 6,000d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 3,600d/\$ 0
-896 Upgrade from use in A600+.	\$ 3,000d/\$ 0
-897 Upgrade from use in A700.	\$ 2,000d/\$ 0
91782R (5200) RIGHT TO COPY 91782A MRJE/1000 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$ 1,400d/\$ 0
-600 Use in A600+/A600 computer	\$ 2,100d/\$ 0
-601 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,260d/\$ 0
-700 Use in A700 computer	\$ 2,800d/\$ 0
-701 Upgrade from previous version for user NOT subscribing to support updates.	\$ 1,680d/\$ 0
-890 Use in A900 computer	\$ 4,200d/\$ 0
-891 Upgrade from previous version for user NOT subscribing to support updates.	\$ 2,520d/\$ 0
-896 Upgrade from use in A600+.	\$ 2,100d/\$ 0
-897 Upgrade from use in A700.	\$ 1,400d/\$ 0

VAX-BASED SOFTWARE PRODUCTS FOR NETWORK FILE TRANSFER COMMUNICATION WITH VAX COMPUTERS VIA LAN

50950A (5200) NS FOR THE VAX (software for DEC VAX computers operating under VMS that supports file transfers between MicroVAX/VMS or VAX/VMS computers and HP 1000 A-Series computers operating under RTE-A via the 12076A LAN/1000 Link interface and 91790A NS/1000 software.) Must order one of Media/Use Options 044-400.	See Options 044-400, below
-044 Software on RX50 5.25-in. flexible disc for use in MicroVAX/VMS.	\$ 6,000n/\$ 0
-200 Software on TK50 cassette tape for use in MicroVAX/VMS.	\$ 6,000n/\$ 0
-300 Software on 9-track mag tape for use in 11/725-85XX VAX/VMS.	\$ 8,500n/\$ 0
-400 Software on 9-track mag tape for use in 8600-88XX VAX/VMS.	\$11,000n/\$ 0
50950R (5200) RIGHT TO COPY 50950A NS FOR THE VAX SOFTWARE to one additional computer. Must order one of Use Opt 044-400.	See Options 044-400, below
-044 Use in MicroVAX/VMS.	\$ 4,200d/\$ 0
-200 Use in MicroVAX/VMS.	\$ 4,200d/\$ 0
-300 Use in 11/725 - 85 XX VAX/VMS.	\$ 5,950d/\$ 0
-400 Use in 8600-88XX VAX/VMS.	\$ 7,700d/\$ 0

Active Factory Automation Software

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
QUALITY MANAGEMENT SOFTWARE PRODUCTS	
92131A QDM/1000 QUALITY DECISION MANAGEMENT SOFTWARE for A-Series computer operating under RTE-A with VC+, 92861A/R Graphics/1000-II DGL, 92081A/R Image/1000-II, graphics display, and hard copy devices. Must order Media Opt 022 or 051 and one of Use Opt 400-897.	See Options 400-897, below
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-051 1600 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-400 Use in A400 computer	\$25,000d/\$ 0
-600 Use in A600+ computer	\$25,000d/\$ 0
-700 Use in A700 computer	\$30,000d/\$ 0
-890 Use in A900 computer	\$35,000d/\$ 0
-894 Upgrade from use in A400.	\$10,000d/\$ 0
-896 Upgrade from use in A600+.	\$10,000d/\$ 0
-897 Upgrade from use in A700.	\$ 5,000d/\$ 0
92131R RIGHT TO COPY 92131A QDM/1000 SOFTWARE to one additional computer. Must order one of Use Opt 400-897.	See Options 400-897, below
-400 Use in A400 computer	\$17,500d/\$ 0
-600 Use in A600+ computer	\$17,500d/\$ 0
-700 Use in A700 computer	\$21,000d/\$ 0
-890 Use in A900 computer	\$24,500d/\$ 0
-894 Upgrade from use in A400.	\$ 7,000d/\$ 0
-896 Upgrade from use in A600+.	\$ 7,000d/\$ 0
-897 Upgrade from use in A700.	\$ 3,500d/\$ 0

NOTE: The 92131A/R products are available in customized form for use in Germany as the 92131DA/DR products and in Holland as the 92131HA/HR products at the same price as U.S. versions, but certain Use Options may not be available. See the HP Corporate Price List for details.

Active Diagnostics Software Packages

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
91711B ON-LINE DIAGNOSTICS AND VERIFICATION PACKAGE for E/F-Series computer oper under RTE-6/VM, RTE-IVB, or RTE-IVE. Must order one of Media Opt 022-051.	\$ 525d/\$ 0
-020 264x cartridge tape media.	\$ 220f/\$ 0
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-050 800 cpi, 9-tr mag tape media.	\$ 0f/\$ 0
-051 1600 cpi mag tape media.	\$ 0f/\$ 0
24398B A-SERIES PERIPHERALS DIAGNOSTICS. Must order Media Option 022.	\$ 200d/\$ 0
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
24612A A/L-SERIES SYSTEM DIAGNOSTICS. Must order Media Opt 022, 044, or 051.	\$ 400d/\$ 0
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-044 270 kB microfloppy media.	\$ 0f/\$ 0
-051 1600 cpi mag tape media.	\$ 0f/\$ 0

Mature Software

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
92121A PMC/1000 PROCESS MONITORING AND CONTROL SOFTWARE for A-Series computer operating under RTE-A with VC+, 92861A/R Graphics/1000-II DGL, 92081A/R Image/1000-II, and an HP 2250 Measurement and Control System or an HP 3497A Data Acquisition/Control Unit. Must order Media Opt 022 or 051 and one of Use Opt 600-897.	See Options 600-897, below
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
-051 1600 cpi mag tape media.	\$ 0f/\$ 0
-600 Use in A600+ computer	\$15,000d/\$ 0
-700 Use in A700 computer	\$25,000d/\$ 0
-890 Use in A900 computer	\$35,000d/\$ 0
-896 Upgrade from use in A600+.	\$20,000d/\$ 0
-897 Upgrade from use in A700.	\$10,000d/\$ 0

Mature Software, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE/BMMC
92121R RIGHT TO COPY 92121A PMC/1000 SOFTWARE to one additional computer. Must order one of Use Opt 600-897.	See Options 600-897, below
-600 Use in A600+ computer	\$10,500d/\$ 0
-700 Use in A700 computer	\$17,500d/\$ 0
-890 Use in A900 computer	\$24,500d/\$ 0
-896 Upgrade from use in A600+.	\$14,000d/\$ 0
-897 Upgrade from use in A700.	\$ 7,000d/\$ 0
92061A RTE MICROPROGRAMMING PACKAGE for E/F-Series computer oper under RTE-6/VM or RTE-IVB. Must order Media Opt 022.	\$ 1,050d/\$ 0
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
92101A BASIC/1000D subsystem for E/F-Series computer oper under RTE-6/VM or RTE-IVB. Must order Media Opt 022.	\$ 1,050d/\$ 0
-001 Discount for upgrade from previous version for user NOT subscribing to support updates.	\$ -525f/\$ 0
-022 CS/80 cartridge tape media.	\$ 0f/\$ 0
24396C E/F-SERIES DIAGNOSTICS ON DISC CARTRIDGE FOR 7905/6	\$ 530d/\$ 0
24396D E/F-SERIES DIAGNOSTICS ON 800 CPI MAG TAPE	\$ 320d/\$ 0
24396E E/F-SERIES DIAGNOSTICS ON 1600 CPI MAG TAPE	\$ 320d/\$ 0
24396F E/F-SERIES DIAGNOSTICS ON 264X MINICARTRIDGES	\$ 425d/\$ 0
24396H E/F-SERIES DIAGNOSTICS ON CS/80 CARTRIDGE TAPE	\$ 320d/\$ 0

Inactive Software

24398A L-Series Peripherals Diagnostics	
24600A L-Series Diagnostics for Intelligent Communications Interfaces	
91731A Asynchronous Multiplexer Software (for 12920B)	
91740A* DS/1000 Network Software-Firmware	
91741A DS/1000 Software Enhancement	
91745A* Datasafe/1000 software	
91747A* Datashare/1000 software	
91780A RJE/1000 Remote Job Entry Package for E/F-Ser.	
92045A* RTE Microprogramming Package for A700.	
92066A RTE Measurement and Control Software	
92088A* RTE-IVB Operating System for E/F-Series	
92071A RTE-XL Operating System for L-Series	
92073A Image/1000 Data Base Management System without Query for A/L/E/F-Series	
92076A BASIC/1000L for A/L-Series	
92082A ACCEL/1000 Profiling and Microprogramming package for E/F-Series	
92091A* HPSPIICE Circuit Simulation Program for F-Series	
92120A PMC/1000 Process Monitoring and Control software for F-Series	
92130A QDM/1000 Quality Decision Management software for F-Series	
92400A Sensor-Based DAS Utility Library for E/F-Series	
92832A* Pascal/1000 for E/F-Series	
92834A* FORTRAN 4X for E/F-Series	
92835A* SIGNAL/1000 Package for F-Series	
92840A GRAPHICS/1000 Graphics Plotting Software for E/F-Series	
92841A* GRAPHICS/1000-II Version 1.0 Device Independent Graphics Library for A/E/F-Series	
92842A* GRAPHICS/1000-II Version 1.0 Advanced Graphics Package for A/E/F-Series	
92854A Pascal/1000 for L-Series oper under RTE-XL	

* Identifies inactive software product for which rights to copy can still be purchased. See the HP Corporate Price List for information.

HP 1000 Software Support Services

Hewlett-Packard's software support services span a broad range - from personal, on-site assistance to materials-only services. Use the flexibility of HP support to meet your changing requirements.

Ordering HP 1000 Software Support

HP software falls into three groups: (1) Operating Systems; (2) Subsystem Categories, such as languages and data management; or (3) Application Families, such as factory automation.

When ordering software support, include:

- AMS, RCS, or SMS for the operating system,
- Each Category or Family with AMS or RCS, and
- SMS for each software product.

Central System Services

Account Management Support (AMS +Txx) provides a local account SE, on-site assistance, one Response Center caller (a System Manager) and one alternate for telephone assistance, and Software Materials Subscription.

Response Center Support (RCS +Hxx) provides one Response Center caller and one alternate for telephone assistance and Software Materials Subscription.

Software Materials Subscription (SMS +Sxx) provides software and manual updates, Software Status Bulletin, and HP Communicator magazine.

Category Support (CAT +C00) provides the same level of support as is ordered for the operating system. If AMS is ordered, then Category Support provides Account Management Support. If RCS is ordered, then Category Support provides Response Center Support.

AMS Family Support (AMS Fam +T00) provides Account Management Support for applications software separately from the operating system.

RCS Family Support (RCS Fam +H00) provides Response Center Support for applications software.

Software Materials Subscription is ordered separately for each subsystem or application product.

Additional System Services (Right-to-Copy)

Additional System Coverage (ASC +V00) extends AMS or RCS coverage on the central system to one additional system under the same System Manager plus provides the right-to-copy materials for use on one additional system. All support is delivered through the central system.

Extended Software Materials Subscription (Ext SMS +W00) extends Software Materials Subscription by providing the right-to-copy all central system materials for use on one additional system.

Additional System Services (With Material)

Additional System Coverage (ASC +Vxx) extends AMS or RCS coverage on the central system to one additional system under the same System Manager. Support is delivered through the central system however software and documentation updates are delivered directly to the additional system.

Extended Software Materials Subscription (Ext SMS +Wxx) extends Software Materials Subscription by providing software and documentation updates for one additional system.

Optional Services

Additional Response Center Caller (ARCC +P00) provides one additional caller for access to the HP Response Center.

Manual Update Service (MUS +Q00) provides one copy of updates to software reference manuals.

Software Notification Service (SNS +N00) provides issues of the HP Communicator and Software Status Bulletin.

Common HP 1000 Software Support Questions

Q: If I have an RTE-A Central System, can I have an RTE-6 Additional System?

A: No! Only RTE-A systems can be extended from another RTE-A system. Similarly, only RTE-6 can be extended from RTE-6 and only RTE-IVB can be extended from RTE-IVB.

Q: When should I order the Additional System Coverage with right-to-copy?

A: Order the right-to-copy alternative when each additional system is an exact duplicate or subset of the central system. The customer agrees to copy the software and manual updates, and agrees to channel support questions through the central system.

Q: Can my additional system users call HP's Response Center directly?

A: No. However, when the Additional Response Center Caller service is ordered with the additional system, you can call the Response Center directly.

Q: When should processor options be used with software support?

A: Processor options are required only with RTE-A operating system support. Processor options are not required with subsystem or application software.

Q: When should I order Additional System Coverage with material?

A: There are three reasons to order the "with material" alternative:

- (1) to receive HP-reproduced materials at the additional system site,**
- (2) for media compatability if each system has a different media I/O device, or**
- (3) if the systems are closely linked but have different software.**

Q: When I order the "with material" alternative for the operating system, do I also need to order the "right-to-copy" services?

A: Yes. The "right-to-copy" services and the "with material" services must be ordered together for the operating system. Use +V00 with Vxx for Additional System Coverage or use +W00 with +Wxx for Extended Software Materials Subscription.

Q: How do I order Response Center Support for a second RTE system?

A: Additional System Coverage extends RCS to one additional system.

Q: If I have more than one datacomm product, which Data Comm Category do I order?

A: Only the highest Data Comm Category (C = high, B = middle, A = low) in which a product is grouped must be ordered. Customers never need more than ONE Data Comm Category per system.

Q: Who can I call for help with software support configurations?

A: Call the Customer Support Sales Development Team at (408) 725-8111, Ext. xxx.

Fred Valdez (MSR) x3491
Valori Stitt (ESR) x3470
Linda Parriott (Mega Deal, Eur.) . . x4840
Tony Wong (Intercon/SSR) x3498
Tom Loupy (NSR) x4164

Q: What other software support references are available?

A: A partial list of available software support references is presented below:

Software Support FTM 5958-4632
Software Support Price List 5958-2344
Software Support Credit Program . 5958-7335
Software Support: Technical 5954-0111

HP 1000 Software Support Examples

Example 1: RTE-A900 with QDM/1000

Your customer has bought an HP 1000 running RTE-A900 with QDM, Fortran-77, Debug and Image. You've recommended RCS for the operating system and subsystem software plus AMS for the application software. Software updates are to be delivered on 1600 BPI mag tape. Therefore, you would order the following software support products:

RTE-A900 RCS	92077A+H51 92077A+H51-890
Language Category FORTRAN 77/1000 SMS	99081D+C00 92836A+S00
Productivity Tool Category DEBUG/1000 SMS	99082D+C00 92860A+S00
Data Management Category IMAGE/1000 SMS	92083D+C00 92069A+S00
Factory Automation Family QDM/1000 SMS	99102D+T00 92131A+S00

Example 2: Additional System with Right-to-Copy

Your customer has bought a second A900 system identical to the first. You have recommended that Additional System Coverage with right-to-copy be ordered for the additional system. Order the following support products:

RTE-A900 ASC with right-to-copy	92077A+V00 92077A+V00-890
Extended Language Category FORTRAN 77/1000 Ext SMS	99081D+V00 92836A+W00
Extended Productivity Tool DEBUG/1000 Ext SMS	99082D+V00 92860A+W00
Extended Data Management IMAGE/1000 Ext SMS	92083D+V00 92069A+W00
Extended Factory Automation QDM/1000 Ext SMS	99102D+V00 92131A+W00

Your customer has Response Center Support for the operating system and Account Management Support for QDM. All support is provided through the central site System Manager. The additional system customer has no direct contact with HP.

Example 3: Additional System with Material

Your customer has bought a third HP 1000, an A600 with a cartridge tape unit. You've recommended Additional System Coverage with material because an A600 can be extended from an A900 and because the two systems have different I/O devices. Order the following support products:

RTE-A600 ASC with material	92077A+V00 92077A+V00-600 92077A+V22 92077A+V22-600
Extended Language Category FORTRAN 77/1000 Ext SMS	99081D+V00 92836A+W00
Extended Productivity Tool DEBUG/1000 Ext SMS	99082D+V00 92860A+W00
Extended Data Management IMAGE/1000 Ext SMS	92083D+V00 92069A+W00
Extended Factory Automation QDM/1000 Ext SMS	99102D+V00 92131A+W00

Your customer has Response Center Support for operating system and Account Management Support for QDM as before. Support is still provided through the central site System Manager. However, the "with material" alternative will deliver all software and documentation updates directly to the additional system.

Operating Systems Software Support

Operating Systems Software Support, Continued

PROD.NO., DESCRIPTION, & OPTIONS	PRICE
RTE-A SUPPORT PRODUCTS	
92077A+H22 RESPONSE CENTER SUPPORT (RCS) w/updates on CS/80 cartridge tape. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	120/mo
-600 On A600+ Computer	155/mo
-700 On A700 Computer	185/mo
-890 On A900 Computer	235/mo
92077A+H41 RCS w/updates on 1.2 MB flexible disc. Must order one Opt 600 or 700.	\$ 0/mo
-600 On A600+ Computer	200/mo
-700 On A700 Computer	230/mo
92077A+H42 RCS w/updates on 5-in. minifloppy disc. Must order Opt 600.	\$ 0/mo
-600 On A600+ Computer	200/mo
92077A+H44 RCS w/updates on micro-floppy disc. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	165/mo
-600 On A600+ Computer	200/mo
-700 On A700 Computer	230/mo
-890 On A900 Computer	280/mo
92077A+H50 RCS w/updates on 800 cpi, 9-tr mag tape. Must order Opt 600 or 890.	\$ 0/mo
-600 On A600+ Computer	155/mo
-890 On A900 Computer	235/mo
92077A+H51 RCS w/updates on 1600 cpi, 9-tr mag tape. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	120/mo
-600 On A600+ Computer	155/mo
-700 On A700 Computer	185/mo
-890 On A900 Computer	235/mo
92077A+P00 ADDITIONAL RESPONSE CENTER CALLER. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	125/mo
-600 On A600+ Computer	125/mo
-700 On A700 Computer	125/mo
-890 On A900 Computer	125/mo
92077A+Q00 MANUAL UPDATE SERVICE FOR RTE-A MANUALS	\$ 25/mo
92077A+S22 SOFTWARE MATERIALS SUBSCRIPTION (SMS) w/updates on CS/80 cartridge tape. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	80/mo
-600 On A600+ Computer	105/mo
-700 On A700 Computer	120/mo
-890 On A900 Computer	130/mo
92077A+S41 SMS w/updates on 1.2 MB flexible disc. Must order Opt 600 or 700.	\$ 0/mo
-600 On A600+ Computer	150/mo
-700 On A700 Computer	165/mo
92077A+S42 SMS w/updates on 5-in. minifloppy disc. Must order Opt 600.	\$ 0/mo
-600 On A600+ Computer	150/mo
92077A+S44 SMS w/updates on micro-floppy disc. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	125/mo
-600 On A600+ Computer	150/mo
-700 On A700 Computer	165/mo
-890 On A900 Computer	175/mo
92077A+S50 SMS w/updates on 800 cpi, 9-tr mag tape. Must order Opt 600 or 890.	\$ 0/mo
-600 On A600+ Computer	105/mo
-890 On A900 Computer	130/mo
92077A+S51 SMS w/updates on 1600 cpi, 9-tr mag tape. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	80/mo
-600 On A600+ Computer	105/mo
-700 On A700 Computer	120/mo
-890 On A900 Computer	130/mo

PROD.NO., DESCRIPTION, & OPTIONS	PRICE
RTE-A SUPPORT PRODUCTS, continued	
92077A+T22 ACCOUNT MANAGEMENT SUPPORT (AMS) w/updates on CS/80 cartridge tape. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	225/mo
-600 On A600+ Computer	260/mo
-700 On A700 Computer	365/mo
-890 On A900 Computer	430/mo
92077A+T41 AMS w/updates on 1.2 MB flexible disc. Must order Opt 600 or 700.	\$ 0/mo
-600 On A600+ Computer	305/mo
-700 On A700 Computer	410/mo
92077A+T42 AMS w/updates on 5-in. minifloppy disc. Must order Opt 600.	\$ 0/mo
-600 On A600+ Computer	305/mo
92077A+T44 AMS w/updates on micro-floppy disc. Must order one of Opt 400-890.	\$ 270/mo
-400 On A400 Computer	270/mo
-600 On A600+ Computer	305/mo
-700 On A700 Computer	410/mo
-890 On A900 Computer	475/mo
92077A+T50 AMS w/updates on 800 cpi, 9-tr mag tape. Must order Opt 600 or 890.	\$ 0/mo
-600 On A600+ Computer	260/mo
-890 On A900 Computer	430/mo
92077A+T51 AMS w/updates on 1600 cpi, 9-tr mag tape. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	225/mo
-600 On A600+ Computer	260/mo
-700 On A700 Computer	365/mo
-890 On A900 Computer	430/mo
92077A+V00 ADDITIONAL SYSTEM COVERAGE (ASC) updated via central system. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	45/mo
-600 On A600+ Computer	55/mo
-700 On A700 Computer	70/mo
-890 On A900 Computer	80/mo
92077A+V22 CS/80 cartridge tape media for ASC. Must order 92077A+V00 and one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	30/mo
-600 On A600+ Computer	35/mo
-700 On A700 Computer	35/mo
-890 On A900 Computer	35/mo
92077A+V41 1.2 MB flexible disc media for ASC. Must order 92077A+V00 and Opt 600 or 700.	\$ 0/mo
-600 On A600+ Computer	80/mo
-700 On A700 Computer	80/mo
92077A+V42 5-in. minifloppy disc media for ASC. Must order 92077A+V00 and Opt 600.	\$ 0/mo
-600 On A600+ Computer	80/mo
92077A+V44 Microfloppy disc media for ASC. Must order 92077A+V00 and one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	75/mo
-600 On A600+ Computer	80/mo
-700 On A700 Computer	80/mo
-890 On A900 Computer	80/mo
92077A+V50 800 cpi mag tape media for ASC. Must order 92077A+V00 and Opt 600 or 890.	\$ 0/mo
-600 On A600+ Computer	35/mo
-890 On A900 Computer	35/mo
92077A+V51 1600 cpi mag tape media for ASC. Must order 92077A+V00 and one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	30/mo
-600 On A600+ Computer	35/mo
-700 On A700 Computer	35/mo
-890 On A900 Computer	35/mo
92077A+W00 EXTENDED SMS (ESMS) updated via central system. Must order one of Opt 400-890.	\$ 0/mo
-400 On A400 Computer	15/mo
-600 On A600+ Computer	20/mo
-700 On A700 Computer	20/mo
-890 On A900 Computer	25/mo

Operating Systems Software Support, Continued

PROD.NO., DESCRIPTION, & OPTIONS	PRICE
RTE-A SUPPORT PRODUCTS, continued	
92077A+W22 CS/80 cartridge tape media for ESMS. Must order 92077A+W00 and one of Opt 400-890. -400 On A400 Computer -600 On A600+ Computer -700 On A700 Computer -890 On A900 Computer	\$ 0/mo 30/mo 35/mo 35/mo 35/mo
92077A+W41 1.2 MB flexible disc media for ESMS. Must order 92077A+W00 and Opt 600 or 700. -600 On A600+ Computer -700 On A700 Computer	\$ 0/mo 80/mo 80/mo
92077A+W42 5-in. minifloppy disc media for ESMS. Must order 92077A+W00 and Opt 800. -600 On A600+ Computer	\$ 0/mo 80/mo
92077A+W44 Microfloppy disc media for ESMS. Must order 92077A+W00 and one of Opt 400-890. -400 On A400 Computer -600 On A600+ Computer -700 On A700 Computer -890 On A900 Computer	\$ 0/mo 75/mo 80/mo 80/mo 80/mo
92077A+W50 800 cpi mag tape media for ESMS. Must order 92077A+W00 and Opt 600 or 890. -600 On A600+ Computer -890 On A900 Computer	\$ 0/mo 35/mo 35/mo
92077A+W51 1600 cpi mag tape media for ESMS. Must order 92077A+W00 and one of Opt 400-890. -400 On A400 Computer -600 On A600+ Computer -700 On A700 Computer -890 On A900 Computer	\$ 0/mo 30/mo 35/mo 35/mo 35/mo

RTE-6/VM SUPPORT PRODUCTS

92084A+H20 RESPONSE CENTER SUPPORT (RCS) w/updates on 264x minicartridges.	\$ 300/mo
92084A+H22 RCS w/updates on CS/80 cartridge tape.	\$ 220/mo
92084A+H50 RCS w/updates on 800 cpi, 9-tr mag tape.	\$ 220/mo
92084A+H51 RCS w/updates on 1600 cpi, 9-tr mag tape.	\$ 220/mo
92084A+P00 ADDITIONAL RESPONSE CENTER CALLER.	\$ 125/mo
92084A+Q00 MANUAL UPDATE SERVICE FOR RTE-6/VM MANUALS	\$ 25/mo
92084A+S20 SOFTWARE MATERIALS SUBSCRIPTION (SMS) w/updates on 264x minicartridges.	\$ 205/mo
92084A+S22 SMS w/updates on CS/80 cartridge tape.	\$ 125/mo
92084A+S50 SMS w/updates on 800 cpi, 9-tr mag tape.	\$ 125/mo
92084A+S51 SMS w/updates on 1600 cpi, 9-tr mag tape.	\$ 125/mo
92084A+T20 ACCOUNT MANAGEMENT SUPPORT (AMS) w/updates on 264x minicartridges.	\$ 505/mo
92084A+T22 AMS w/updates on CS/80 cartridge tape.	\$ 425/mo
92084A+T50 AMS w/updates on 800 cpi, 9-tr mag tape.	\$ 425/mo
92084A+T51 AMS w/updates on 1600 cpi, 9-tr mag tape.	\$ 425/mo
92084A+V00 ADDITIONAL SYSTEM COVERAGE (ASC) updated via central system.	\$ 80/mo
92084A+V20 264x minicartridge media for ASC. Must order 92084A+V00.	\$ 115/mo
92084A+V22 CS/80 cartridge tape media for ASC. Must order 92084A+V00	\$ 35/mo

Operating Systems Software Support, Continued

PROD.NO., DESCRIPTION, & OPTIONS	PRICE
RTE-6/VM SUPPORT PRODUCTS, continued	
92084A+V50 800 cpi mag tape media for ASC. Must order 92084A+V00.	\$ 35/mo
92084A+V51 1600 cpi mag tape media for ASC. Must order 92084A+V00.	\$ 35/mo
92084A+W00 EXTENDED SMS (ESMS) updated via central system.	\$ 35/mo
92084A+W20 264x minicartridge media for ESMS. Must order 92084A+W00.	\$ 115/mo
92084A+W22 CS/80 cartridge tape media for ESMS. Must order 92084A+W00.	\$ 35/mo
92084A+W50 800 cpi mag tape media for ESMS. Must order 92084A+W00.	\$ 35/mo
92084A+W51 1600 cpi mag tape media for ESMS. Must order 92084A+W00.	\$ 35/mo

RTE-IVB (Inactive) SUPPORT PRODUCTS

92068A+H20 RESPONSE CENTER SUPPORT (RCS) w/updates on 264x minicartridges.	\$ 270/mo
92068A+H50 RCS w/updates on 800 cpi, 9-tr mag tape.	\$ 190/mo
92068A+H51 RCS w/updates on 1600 cpi, 9-tr mag tape.	\$ 190/mo
92068A+P00 ADDITIONAL RESPONSE CENTER CALLER.	\$ 125/mo
92068A+Q00 MANUAL UPDATE SERVICE FOR RTE-IVB MANUALS	\$ 13/mo
92068A+S20 SOFTWARE MATERIALS SUBSCRIPTION (SMS) w/updates on 264x minicartridges.	\$ 185/mo
92068A+S50 SMS w/updates on 800 cpi, 9-tr mag tape.	\$ 105/mo
92068A+S51 SMS w/updates on 1600 cpi, 9-tr mag tape.	\$ 105/mo
92068A+T20 ACCOUNT MANAGEMENT SUPPORT (AMS) w/updates on 264x minicartridges.	\$ 470/mo
92068A+T50 AMS w/updates on 800 cpi, 9-tr mag tape.	\$ 400/mo
92068A+T51 AMS w/updates on 1600 cpi, 9-tr mag tape.	\$ 400/mo
92068A+V00 ADDITIONAL SYSTEM COVERAGE (ASC) updated via central system.	\$ 75/mo
92068A+V20 264x minicartridge media for ASC. Must order 92068A+V00.	\$ 105/mo
92068A+V50 800 cpi mag tape media for ASC. Must order 92068A+V00.	\$ 30/mo
92068A+V51 1600 cpi mag tape media for ASC. Must order 92068A+V00.	\$ 30/mo
92068A+W00 EXTENDED SMS (ESMS) updated via central system.	\$ 30/mo
92068A+W20 264x minicartridge media for ESMS. Must order 92068A+W00.	\$ 105/mo
92068A+W50 800 cpi mag tape media for ESMS. Must order 92068A+W00.	\$ 30/mo
92068A+W51 1600 cpi mag tape media for ESMS. Must order 92068A+W00.	\$ 30/mo

Operating Systems Software Support, Continued

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE
RTE-XL (Inactive) SUPPORT PRODUCTS		
92071A+H22	RESPONSE CENTER SUPPORT (RCS) w/updates on CS/80 cartridge tape	\$ 170/mo
92071A+H41	RCS w/updates on 1.2 MB flexible disc.	\$ 215/mo
92071A+H42	RCS w/updates on 5-in. minifloppy disc.	\$ 215/mo
92071A+H50	RCS w/updates on 800 cpi, 9-tr mag tape.	\$ 170/mo
92071A+H51	RCS w/updates on 1600 cpi, 9-tr mag tape.	\$ 170/mo
92071A+P00	ADDITIONAL RESPONSE CENTER CALLER.	\$ 250/mo
92071A+Q00	MANUAL UPDATE SERVICE FOR RTE-XL MANUALS	\$ 10/mo
92071A+S22	SOFTWARE MATERIALS SUBSCRIPTION (SMS) w/updates on CS/80 cartridge tape.	\$ 95/mo
92071A+S41	SMS w/updates on 1.2 MB flexible disc.	\$ 140/mo
92071A+S42	SMS w/updates on 5-in. minifloppy disc.	\$ 140/mo
92071A+S50	SMS w/updates on 800 cpi, 9-tr mag tape.	\$ 95/mo
92071A+S51	SMS w/updates on 1600 cpi, 9-tr mag tape.	\$ 95/mo
92071A+T22	ACCOUNT MANAGEMENT SUPPORT (AMS) w/updates on CS/80 cartridge tape.	\$ 320/mo
92071A+T41	AMS w/updates on 1.2 MB flexible disc.	\$ 365/mo
92071A+T42	AMS w/updates on 5-in. minifloppy disc.	\$ 365/mo
92071A+T50	AMS w/updates on 800 cpi, 9-tr mag tape.	\$ 320/mo
92071A+T51	AMS w/updates on 1600 cpi, 9-tr mag tape.	\$ 320/mo
92071A+V00	ADDITIONAL SYSTEM COVERAGE (ASC) updated via central system.	\$ 45/mo
92071A+V22	CS/80 cartridge tape media for ASC. Must order 92071A+V00.	\$ 30/mo
92071A+V41	1.2 MB flexible disc media for ASC. Must order 92071A+V00.	\$ 75/mo
92071A+V42	5-in. minifloppy disc media for ASC. Must order 92071A+V00.	\$ 75/mo
92071A+V50	800 cpi mag tape media for ASC. Must order 92071A+V00.	\$ 30/mo
92071A+V51	1600 cpi mag tape media for ASC. Must order 92071A+V00.	\$ 30/mo
92071A+W00	EXTENDED SMS (ESMS) updated via central system.	\$ 15/mo
92071A+W22	CS/80 cartridge tape media for ESMS. Must order 92071A+W00.	\$ 30/mo
92071A+W41	1.2 MB flexible disc media for ESMS. Must order 92071A+W00.	\$ 75/mo
92071A+W42	5-in. minifloppy disc media for ESMS. Must order 92071A+W00.	\$ 75/mo
92071A+W50	800 cpi mag tape media for ESMS. Must order 92071A+W00.	\$ 30/mo
92071A+W51	1600 cpi mag tape media for ESMS. Must order 92071A+W00.	\$ 30/mo

Programming Languages Software Support

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE
LANGUAGE SUPPORT CATEGORY/1000 SUPPORT PRODUCTS		
99081D+C00	SOFTWARE SUPPORT FOR LANGUAGE SUPPORT CATEGORY/1000	\$ 50/mo
99081D+Q00	MANUAL UPDATES FOR LANGUAGE SUPPORT CATEGORY/1000 MANUALS	\$ 15/mo
99081D+V00	EXTENDS SOFTWARE SUPPORT FOR LANGUAGE SUPPORT CATEGORY/1000 TO ONE ADDITIONAL SYSTEM	\$ 10/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR ACTIVE PROGRAMMING LANGUAGES

92836A+S00	SMS FOR FORTRAN 77	\$ 20/mo
92836A+W00	ESMS FOR FORTRAN 77	\$ 5/mo
92833A+S00	SMS FOR PASCAL/1000	\$ 25/mo
92833A+W00	ESMS FOR PASCAL/1000	\$ 10/mo
92857A+S00	SMS FOR BASIC/1000C	\$ 25/mo
92857A+W00	ESMS FOR BASIC/1000C	\$ 10/mo
92049A+S00	SMS FOR RTE MICROPROGRAMMING PACKAGE FOR A900	\$ 30/mo
92049A+W00	ESMS FOR RTE MICROPROGRAMMING PACKAGE FOR A900	\$ 5/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR MATURE PROGRAMMING LANGUAGES

92061A+S00	SMS FOR RTE MICROPROGRAMMING PACKAGE FOR E/F-SERIES	\$ 10/mo
92101A+S00	SMS FOR BASIC/1000D	\$ 20/mo
92101A+W00	ESMS FOR BASIC/1000D	\$ 5/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR INACTIVE PROGRAMMING LANGUAGES

92045A+S00	SMS FOR RTE MICROPROGRAMMING PACKAGE FOR A700	\$ 30/mo
92045A+W00	ESMS FOR RTE MICROPROGRAMMING PACKAGE FOR A700	\$ 5/mo
92076A+S00	SMS FOR BASIC/1000L	\$ 10/mo
92832A+S00	SMS FOR PASCAL/1000	\$ 20/mo
92832A+W00	ESMS FOR PASCAL/1000	\$ 10/mo
92834A+S00	SMS FOR FORTRAN 4X	\$ 15/mo
92834A+W00	ESMS FOR FORTRAN 4X	\$ 5/mo
92854A+S00	SMS FOR PASCAL/1000	\$ 10/mo
92854A+W00	EXTENDED SMS FOR PASCAL/1000	\$ 5/mo

Productivity Tools Software Support

PROD. NO.	DESCRIPTION, & OPTIONS	PRICE
PRODUCTIVITY TOOL SUPPORT CATEGORY/1000 SUPPORT PRODUCTS		
99082D+C00	SOFTWARE SUPPORT FOR PRODUCTIVITY TOOL SUPPORT CATEGORY/1000	\$ 55/mo
99082D+Q00	MANUAL UPDATES FOR PRODUCTIVITY TOOL SUPPORT CATEGORY/1000 MANUALS	\$ 10/mo
99082D+V00	EXTENDS SOFTWARE SUPPORT FOR PRODUCTIVITY TOOL SUPPORT CATEGORY/1000 TO ONE ADDITIONAL SYSTEM	\$ 10/mo

Productivity Tools Software Support, Continued

PROD.NO., DESCRIPTION, & OPTIONS	PRICE
SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR ACTIVE PRODUCTIVITY TOOLS	
91823A+S00 SMS FOR CONTROL/1000	\$ 25/mo
91823A+W00 ESMS FOR CONTROL/1000	\$ 5/mo
92083A+S00 SMS FOR RTE PROFILE MONITOR	\$ 15/mo
92083A+W00 ESMS FOR RTE PROFILE MONITOR	\$ 5/mo
92860A+S00 SMS FOR SYMBOLIC DEBUG/1000	\$ 20/mo
92860A+W00 ESMS FOR SYMBOLIC DEBUG/1000	\$ 5/mo
91784A+S00 SMS FOR PMF/1000	\$ 35/mo
91784A+W00 ESMS FOR PMF/1000	\$ 7/mo
94200B+S00 SMS FOR PCIF/1000	\$ 30/mo
94200B+W00 ESMS FOR PCIF/1000	\$ 6/mo
94202A+S00 SMS FOR DEVICE HANDLER FOR ALLEN-BRADLEY PLCs	\$ 10/mo
94202A+W00 ESMS FOR DEVICE HANDLER FOR ALLEN-BRADLEY PLCs	\$ 3/mo
94203A+S00 SMS FOR DEVICE HANDLER FOR GOULD-MODICON PLCs	\$ 10/mo
94203A+W00 ESMS FOR DEVICE HANDLER FOR GOULD-MODICON PLCs	\$ 3/mo
94204A+S00 SMS FOR DEVICE HANDLER FOR SIEMENS PLCs	\$ 10/mo
94204A+W00 ESMS FOR DEVICE HANDLER FOR SIEMENS PLCs	\$ 3/mo
94205A+S00 SMS FOR DEVICE HANDLER FOR TELEMECANIQUE PLCs	\$ 10/mo
94205A+W00 ESMS FOR DEVICE HANDLER FOR TELEMECANIQUE PLCs	\$ 3/mo
94206A+S00 SMS FOR DEVICE HANDLER FOR GENERAL ELECTRIC PLCs	\$ 10/mo
94206A+W00 ESMS FOR DEVICE HANDLER FOR GENERAL ELECTRIC PLCs	\$ 3/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR INACTIVE PRODUCTIVITY TOOLS

92086A+S00 SMS FOR RTE MEASUREMENT AND CONTROL SOFTWARE PACKAGE	\$ 15/mo
92086A+W00 ESMS FOR RTE MEASUREMENT AND CONTROL SOFTWARE PKG	\$ 5/mo
92082A+S00 SMS FOR ACCEL/1000 PACKAGE	\$ 10/mo
92082A+W00 ESMS FOR ACCEL/1000 PACKAGE	\$ 5/mo
92400A+S00 SMS FOR SENSOR-BASED DAS UTILITY LIBRARY	\$ 10/mo
92400A+W00 ESMS FOR SENSOR-BASED DAS UTILITY LIBRARY	\$ 2/mo

Data Management Software Support

PROD.NO., DESCRIPTION, & OPTIONS	PRICE
DATA MANAGEMENT SUPPORT CATEGORY/1000 SUPPORT PRODUCTS	
99083D+C00 SOFTWARE SUPPORT FOR DATA MANAGEMENT SUPPORT CATEGORY/1000	\$ 40/mo
99083D+Q00 MANUAL UPDATES FOR DATA MANAGEMENT SUPPORT CATEGORY/1000 MANUALS	\$ 15/mo
99083D+V00 EXTENDS SOFTWARE SUPPORT FOR DATA MANAGEMENT SUPPORT CATEGORY/1000 TO ONE ADDITIONAL SYSTEM	\$ 10/mo

Data Management Software Support, Continued

PROD.NO., DESCRIPTION, & OPTIONS	PRICE
SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR ACTIVE DATA MANAGEMENT SOFTWARE	
92050A+S00 SMS FOR DATAPAIR/1000	\$ 15/mo
92050A+W00 ESMS FOR DATAPAIR/1000	\$ 5/mo
92078A+S00 SMS FOR VC+ EXT TO RTE-A	\$ 20/mo
92078A+W00 ESMS FOR VC+ EXT TO RTE-A	\$ 5/mo
92069A+S00 SMS FOR IMAGE/1000	\$ 30/mo
92069A+W00 ESMS FOR IMAGE/1000	\$ 10/mo
92081A+S00 SMS FOR IMAGE/1000-II	\$ 30/mo
92081A+W00 ESMS FOR IMAGE/1000-II	\$ 10/mo
92861A+S00 SMS FOR GRAPHICS/1000-II DGL	\$ 20/mo
92861A+W00 ESMS FOR GRAPHICS/1000-II DGL	\$ 10/mo
92862A+S00 SMS FOR GRAPHICS/1000-II AGP	\$ 20/mo
92862A+W00 ESMS FOR GRAPHICS/1000-II AGP	\$ 10/mo
94250B+S00 SMS FOR FORMS/1000	\$ 10/mo
94250B+W00 ESMS FOR FORMS/1000	\$ 5/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR INACTIVE DATA MANAGEMENT SOFTWARE

92073A+S00 SMS FOR IMAGE/1000	\$ 10/mo
92073A+W00 ESMS FOR IMAGE/1000	\$ 5/mo
92840A+S00 SMS FOR GRAPHICS PLOTTING SOFTWARE	\$ 35/mo
92840A+W00 ESMS FOR GRAPHICS PLOTTING SOFTWARE	\$ 10/mo
92841A+S00 SMS FOR GRAPHICS/1000-II DGL	\$ 20/mo
92841A+W00 ESMS FOR GRAPHICS/1000-II DGL	\$ 10/mo
92842A+S00 SMS FOR GRAPHICS/1000-II AGP	\$ 20/mo
92842A+W00 ESMS FOR GRAPHICS/1000-II AGP	\$ 10/mo

Data Communications "A" Software Support

PROD.NO., DESCRIPTION, & OPTIONS	PRICE
DATA COMMUNICATION-A SUPPORT CATEGORY/1000 SUPPORT PRODUCTS	
99085D+C00 SOFTWARE SUPPORT FOR DATA COMMUNICATION-A SUPPORT CATEGORY/1000	\$ 22/mo
99085D+Q00 MANUAL UPDATES FOR DATA COMMUNICATION-A SUPPORT CATEGORY/1000 MANUALS	\$ 5/mo
99085D+V00 EXTENDS SOFTWARE SUPPORT FOR DATA COMMUNICATION-A SUPPORT CATEGORY/1000 TO ONE ADDITIONAL SYSTEM	\$ 5/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR ACTIVE DATA COMMUNICATIONS-A SOFTWARE

12076A+S00 SMS FOR LAN/1000 LINK SW	\$ 15/mo
12076A+W00 ESMS FOR LAN/1000 LINK SW	\$ 3/mo

Data Communications "B" Software Support

PROD. NO., DESCRIPTION, & OPTIONS	PRICE
DATA COMMUNICATION-B SUPPORT CATEGORY/1000 SUPPORT PRODUCTS	
99088D+C00 SOFTWARE SUPPORT FOR DATA COMMUNICATION-B SUPPORT CATEGORY/1000	\$ 50/mo
99088D+Q00 MANUAL UPDATES FOR DATA COMMUNICATION-B SUPPORT CATEGORY/1000 MANUALS	\$ 15/mo
99088D+V00 EXTENDS SOFTWARE SUPPORT FOR DATA COMMUNICATION-B SUPPORT CATEGORY/1000 TO ONE ADDITIONAL SYSTEM	\$ 10/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR ACTIVE DATA COMMUNICATIONS-B SOFTWARE

91730A+S00 SMS FOR MULTIPOINT SOFTWARE	\$ 15/mo
91730A+W00 ESMS FOR MULTIPOINT SOFTWARE	\$ 5/mo
91732A+S00 SMS FOR DATA LINK MASTER SW	\$ 25/mo
91732A+W00 ESMS FOR DATA LINK MASTER SOFTWARE	\$ 5/mo
91790A+S00 SMS FOR NS/1000 SOFTWARE	\$ 20/mo
91790A+W00 ESMS FOR NS/1000 SOFTWARE	\$ 5/mo
91781A+S00 SMS FOR RJE/1000-II SW	\$ 20/mo
91781A+W00 ESMS FOR RJE/1000-II SW	\$ 10/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR INACTIVE DATA COMMUNICATIONS B SOFTWARE

91780A+S00 SMS FOR RJE/1000 SOFTWARE	\$ 20/mo
91780A+W00 ESMS FOR RJE/1000 SOFTWARE	\$ 10/mo

Data Communications "C" Software Support

PROD. NO., DESCRIPTION, & OPTIONS	PRICE
DATA COMMUNICATION-C SUPPORT CATEGORY/1000 SUPPORT PRODUCTS	
99087D+C00 SOFTWARE SUPPORT FOR DATA COMMUNICATION-C SUPPORT CATEGORY/1000	\$ 65/mo
99087D+Q00 MANUAL UPDATES FOR DATA COMMUNICATION-C SUPPORT CATEGORY/1000 MANUALS	\$ 20/mo
99087D+V00 EXTENDS SOFTWARE SUPPORT FOR DATA COMMUNICATION-C SUPPORT CATEGORY/1000 TO ONE ADDITIONAL SYSTEM	\$ 15/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR ACTIVE DATA COMMUNICATIONS-C SOFTWARE

91750A+S00 SMS FOR DS/1000-IV SOFTWARE	\$ 30/mo
91750A+S71 FIRMWARE UPDATE SUPPORT FOR HDLC (12007A/B, 12044A, 12794A/B, or 12825A I/F)	\$ 5/mo
91750A+S81 FIRMWARE UPDATE SUPPORT FOR BISYNC (12073A, 12082A, 127934A/B, or 12834A I/F)	\$ 5/mo
91750A+W00 ESMS FOR DS/1000-IV SW	\$ 10/mo
91750A+W71 FIRMWARE UPDATE SUPPORT FOR HDLC INTERFACE	\$ 5/mo
91750A+W81 FIRMWARE UPDATE SUPPORT FOR BISYNC INTERFACE	\$ 5/mo

Data Communications "C" Software Support, Continued

PROD. NO., DESCRIPTION, & OPTIONS	PRICE
SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR ACTIVE DATA COMMUNICATIONS-C SOFTWARE, continued	
91751A+S00 SMS FOR X.25 COMM. SOFTWARE	\$ 30/mo
91751A+S91 FIRMWARE UPDATE SUPPORT FOR LAP-B (X.25) INTERFACE (12075A or 12250A)	\$ 5/mo
91751A+W00 ESMS FOR X.25 COMM SOFTWARE	\$ 10/mo
91751A+W91 FIRMWARE UPDATE SUPPORT FOR LAP-B (X.25) INTERFACE (12075A or 12250A)	\$ 5/mo
91782A+S00 SMS FOR MRJE/1000 SOFTWARE	\$ 25/mo
91782A+W00 ESMS FOR MRJE/1000 SOFTWARE	\$ 5/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR INACTIVE DATA COMMUNICATIONS C SOFTWARE

91740A+S00 SMS FOR DS/1000 SOFTWARE	\$ 20/mo
91740A+W00 ESMS FOR DS/1000 SOFTWARE	\$ 5/mo
91741A+S00 SMS FOR DS/1000 SW ENH	\$ 10/mo
91741A+W00 ESMS FOR DS/1000 SW ENH	\$ 5/mo

Factory Automation Software Support

PROD. NO., DESCRIPTION, & OPTIONS	PRICE
FACTORY AUTOMATION FAMILY SUPPORT PRODUCTS	
99102D+H00 RESPONSE CENTER SUPPORT FOR FACTORY AUTOMATION FAMILY SOFTWARE	\$ 200/mo
99102D+N00 SOFTWARE NOTIFICATION SERVICE FOR FACTORY AUTOMATION FAMILY SOFTWARE	\$ 10/mo
99102D+T00 ACCOUNT MANAGEMENT SUPPORT FOR FACTORY AUTOMATION FAMILY SOFTWARE	\$ 360/mo
99102D+V00 EXTENDS SOFTWARE SUPPORT FOR FACTORY AUTOMATION FAMILY SOFTWARE TO ONE ADDITIONAL SYSTEM	\$ 70/mo

SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR ACTIVE FACTORY AUTOMATION SOFTWARE

92131A+Q00 MANUAL UPDATE SERVICE FOR QDM/1000	\$ 3/mo
92131A+S00 SOFTWARE MATERIALS SUBSCRIPTION FOR QDM/1000	\$ 25/mo
92131A+W00 EXTENDED SMS FOR QDM/1000	\$ 5/mo

Factory Automation Software Support, Continued

PROD. NO. , DESCRIPTION, & OPTIONS	PRICE
SOFTWARE MATERIALS SUBSCRIPTION (SMS) AND EXTENDED SMS (ESMS) PRODUCTS FOR MATURE FACTORY AUTOMATION SOFTWARE	
92121A+Q00 MANUAL UPDATE SERVICE FOR PMC/1000	\$ 5/mo
92121A+S00 SOFTWARE MATERIALS SUBSCRIPTION FOR PMC/1000	\$ 25/mo
92121A+W00 EXTENDED SMS FOR PMC/1000	\$ 5/mo

Software Materials Subscription Service (SMS) and Other Support Products for Diagnostics and other Non-Category Software

PROD. NO. , DESCRIPTION, & OPTIONS	PRICE
24398A+S00 SMS FOR E/F-SERIES DIAGNOSTICS	\$ 10/mo
24398B+S00 SMS FOR A-SERIES PERIPHERAL DIAGNOSTICS	\$ 15/mo
24398B+W00 EXTENDED SMS FOR A-SERIES PERIPHERAL DIAGNOSTICS	\$ 5/mo
24612A+S00 SMS FOR A/L-SERIES DIAGNOSTICS	\$ 15/mo
24612A+W00 ESMS FOR A/L-SERIES DIAGNOSTICS	\$ 5/mo
91711B+Q00 MANUAL UPDATE SERVICE FOR ON-LINE DIAGNOSTICS AND VERIFICATION PACKAGE	\$ 2/mo
91711B+S00 SMS FOR ON-LINE DIAGNOSTICS AND VERIFICATION PACKAGE	\$ 20/mo
92091A+S00 SMS FOR HPSPICE/1000	\$ 20/mo
92091A+W00 EXTENDED SMS FOR HPSPICE/1000	\$ 10/mo
92835A+S00 SMS FOR SIGNAL/1000 PACKAGE	\$ 20/mo
92835A+W00 EXTENDED SMS FOR SIGNAL/1000 PACKAGE	\$ 10/mo

Factory Automation Software Assist Services

PROD. NO. , DESCRIPTION, & OPTIONS	PRICE
ASSIST SERVICES FOR ACTIVE FACTORY AUTOMATION SOFTWARE	
92131A+60A QDM ASSIST IMPLEMENTATION SERVICE	\$28,260
92131A+61A QDM ASSIST IMPLEMENTATION ANALYSIS	\$ 4,600
92131A+63A QDM ASSIST IMPLEMENTATION TEAM TRAINING	\$ 6,650
92131A+65A QDM ASSIST PROJECT IMPLEMENTATION ASSISTANCE	\$17,040
92131A+65Z QDM SERVICE UNIT	\$ 1,000

ASSIST SERVICES FOR MATURE FACTORY AUTOMATION SOFTWARE

92121A+60A PMC ASSIST IMPLEMENTATION SERVICE	\$15,420
92121A+61A PMC ASSIST APPLICATION ANALYSIS	\$ 2,900
92121A+63A PMC ASSIST IMPLEMENTATION TEAM TRAINING	\$ 1,700
92121A+65A PMC ASSIST PROJECT IMPLEMENTATION ASSISTANCE	\$10,800
92121A+65Z PMC SERVICE UNIT	\$ 1,000



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