

# HP 9000 Series 200 Computer Systems



## Pricing Information

Effective date: February 1988\*



\* All data and prices are subject to change without notice.  
All prices include factory base plus freight in U.S.A.

## System Configurations

The HP 9000 Series 200 is available in these different models: the Model 216 Personal Technical Computer, Model 220 Modular Computer, and the Model 226 and 236 Technical Computers. The Series 200 computers offer choices of BASIC and Pascal language systems.

Within each series there are base system and bundled system configurations. The base system includes all standard features. The bundled system includes the base system plus several factory

installed options or software offered at a discounted price.

HP offers various hardware and software support services. This guide lists support services and their prices in a section following the product pricing section.

This pricing guide contains only HP part numbers, option numbers, and corresponding prices. See an HP sales representative for the HP 9000 Series 200 Configuration Reference Manual for information on how to configure your system.

## Series 200 Base Systems

Product No./ Option No.	Description	Price
<b>9826A</b>	<b>Model 226 Technical Computer</b> with 7-inch monochrome monitor, graphics, 5¼-inch flexible disc drive, built-in HP-IB interface, 128 Kbyte RAM. Options are available for French, Spanish, German, Katakana, and Swedish/Finnish localized version.	\$12,000.
Opt. 050	Powerfail option	1,785.
<b>9836A</b>	<b>Model 236 Technical Computer</b> with 12-inch monochrome monitor, graphics, dual 5¼-inch flexible disc drives, built-in HP-IB interface, 128 Kbyte RAM. Options are available for French, Spanish, German, Katakana, and Swedish/Finnish localized versions.	15,680.
Opt. 050	Powerfail option	1,785.
Opt. 400	Extend operating frequency range to 440 Hz	60.
Opt. 801	50 Hz CRT operation	N/C
<b>9836C</b>	<b>Model 236C Color Computer</b> with 12-inch color monitor, graphics, dual 5¼-inch flexible disc drives, built-in HP-IB interface, 128 Kbyte RAM. Options available for French, Spanish, German, Katakana, and Swedish/Finnish localized versions.	19,565.
Opt. 050	Powerfail option	1,785.
Opt. 801	50 Hz CRT operation	N/C
<b>9836CU</b>	<b>Model 236 Computer</b> with 12-inch color monitor, graphics, dual 5¼-inch flexible disc drives, built-in HP-IB interface, 128 Kbyte RAM and a 68010 CPU board. Options available for French, Spanish, German, Katakana, and Swedish/Finnish localized versions.	20,975.
Opt. 801	50 Hz CRT operation	N/C
<b>9836U</b>	<b>Model 236 Computer</b> with built-in HP-IB and 12-inch monitor, graphics, dual built-in 5¼-inch flexible disc drives and a 68010 CPU board. Options are available for French, Spanish, German, Katakana, and Swedish/Finnish localized versions.	17,045.
Opt. 400	Extends operating frequency range to 440 Hz	60.
Opt. 801	50 Hz CRT operation	N/C
<b>9920A</b>	<b>Model 220 Modular Computer</b> with built-in HP-IB and keyboard interface, 15-slot card cage.	5,670.
Opt. 908	Rack mount kit (can be ordered separately as P/N 5061-0078)	40.
<b>9920U</b>	<b>Model 220 Modular Computer</b> with built-in HP-IB and keyboard interface, 15-slot card cage, and an MC68010 CPU board.	7,160.
Opt. 535	Deletes standard keyboard interface and adds HP-HIL keyboard interface	95.
Opt. 908	Rack mount kit (can be ordered separately as P/N 5061-0078)	40.

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## Series 200 Bundled Systems (For local language options, see the Series 200 Accessories section.)

Product No./ Option No.	Description	Price
9816S	<b>Model 216 Personal Technical Computer</b> with 9-inch monochrome monitor, graphics, built-in RS-232 and HP-IB interfaces, 256 Kbyte RAM, plus 1 Mbyte additional RAM (1.25 Mbyte total), and RAM-based BASIC 5.0 Language System.	\$ 7,270.
Opt. 805	Large ASCII keyboard	255.
Opt. 256	You must order one of the following media options. Delete RAM BASIC 5.0 and one 1 Mbyte RAM board	-2,275.
Opt. 630	Software on 3½-inch microfloppy disc	N/C
Opt. 650	Software on 5¼-inch floppy disc	N/C
9826S	<b>Model 226 Technical Computer</b> base system plus 512 Kbyte additional RAM (640 Kbyte total), RAM-based BASIC 5.0 and Pascal 3.2 Language Systems	14,370.
Opt. 001	Substitutes 1 Mbyte RAM board for two 256 Kbyte RAM boards	775.
Opt. 050	Powerfail option	1,785.
9836S	<b>Model 236 Technical Computer</b> base system plus 512 Kbyte additional RAM (640 Kbyte total), RAM-based BASIC 5.0 and Pascal 3.2 Language Systems	18,050.
Opt. 001	Substitutes 1 Mbyte RAM board for two 256 Kbyte RAM boards	775.
Opt. 050	Powerfail option	1,785.
Opt. 400	Extends operating frequency range to 440 Hz	60.
Opt. 801	50 Hz CRT operation	N/C
9836CS	<b>Model 236C Color Computer</b> base system plus 512 Kbyte additional RAM (640 Kbyte total), RAM-based BASIC 5.0 and Pascal 3.2 Language Systems	21,885.
Opt. 001	Substitutes 1 Mbyte RAM board for two 256 Kbyte RAM boards	775.
Opt. 801	50 Hz CRT operation	N/C
9920S	<b>Model 220 Development System</b> including Model 220 base system plus 2m HP-IB cable, rack mount kit, HP 98203A Keyboard and 3m extension, HP 98204A Composite Video Interface Card set, additional 512 Kbyte RAM (640 Kbyte total), RAM-based BASIC 5.0 and Pascal 3.2 Language Systems.	9,760.
Opt. 001	Substitutes 1 Mbyte RAM board for two 256 Kbyte RAM boards	775.
Opt. 805	Large ASCII keyboard	255.
Opt. 630	You must order one of the following options: Software on 3½-inch microfloppy disc	N/C
Opt. 650	Software on 5¼-inch floppy disc	N/C

## Series 200 Accessories

### Keyboards for Series 200

Product No./ Option No.	Description	Price
98203A	<b>Standard Keyboard for Model 220</b> with 3m cord (included with Model 220S). Cord is also orderable separately as P/N 1251-8408 modular jack (\$13) and 8120-4265 cable assembly (\$30).	\$ 565.
98203B	<b>Large Keyboard and Numeric Pad</b> for Models 216 and 220.	825.
Opt. 001	Upgrade cable. Required for Model 216A/S with serial number prefix 2230A, 2551G or earlier. Not required for 220 or later 216s.	N/C
Opt. 805	Keyboard Options for Models 216 and 220	255.
Opt. 815	ASCII large keyboard/character set	
Opt. 825	French large keyboard	
Opt. 835	Spanish large keyboard	
Opt. 845	German large keyboard	
Opt. 855	Katakana large keyboard	
Opt. 865	Swedish/Finnish large keyboard	
Opt. 810	Keyboard (98203A/B) Options for Models 226 and 236	N/C
Opt. 820	French keyboard	
Opt. 830	Spanish keyboard	
Opt. 840	German keyboard	
Opt. 850	Katakana keyboard	
Opt. 860	Swedish/Finnish keyboard	

### Monitors for Series 200

Product No./ Option No.	Description	Price
82913A	<b>12-inch Monochrome Monitor</b> , 60 Hz, 112 Vac (for use with 98204A Interface Board in Model 220). Rack mount kit can be ordered separately as P/N 5061-6525.	\$ 345.
Opt. 001	230 Vac operation (Europe)	
Opt. 002	100 Vac operation (Japan)	

### Interface Products for Series 200

Product No./ Option No.	Description	Price
50955A	<b>3278 Display Station Emulator</b> (includes software)	\$ 1,605.
50962A	<b>SRM Coax Interface</b>	895.
50961U Opt. 200	SRM Coax Adapter Upgrade Kit – upgrades existing 98629A cards for use on an SRM Coax Network	320.
98201A	<b>Custom Keypad Interface</b>	320.
98204A Opt. 090	<b>Composite Video Card</b> with 1.5m cable for use with HP 82913A or HP 82912A monitors. Deletes graphics card set	940. -225.
98253A	<b>EPROM Programmer Interface</b> includes HP 98255A.	1,550.
98255A	<b>EPROM Card</b> , 16 sockets for 2764 or 27128 EPROM ICs	310.
98256A	<b>256 Kbyte RAM Board</b>	615.
98257A	<b>1 Mbyte RAM Board</b> with parity check	1,500.
98259A	<b>128 Kbyte Magnetic Bubble Memory</b>	1,965.
98270F	<b>Powerfail Upgrade Kit</b>	1,785.
98620B	<b>Two-channel DMA Controller</b>	515.
98622A	<b>16-bit GPIO Interface</b>	370.
Opt. 001	Provides 4.6m unterminated cable (P/N 5061-4209)	105.
Opt. 002	Provides 0.8m terminated cable for 9885M Flexible Disc Drive (P/N 5061-4211)	105.
Opt. 003	Provides 4.6m terminated cable for 6940A/B Multiprogrammer (P/N 5061-4210)	137.
Opt. 004	Provides 2.5m terminated cable for 9866A/B Thermal Printer (P/N 5061-4212)	184.
98623A	<b>43-line BCD Interface</b>	405.
Opt. 001	Provides 4.6m unterminated cable (P/N 5061-4217)	110.
98624A	<b>HP-IB Interface</b> , standard speed 1m HP-IB cable, P/N 10833A 2m HP-IB cable, P/N 10833B 4m HP-IB cable, P/N 10833C 0.5m HP-IB cable, P/N 10833D	345. 80. 90. 100. 80.
98625B	<b>HP-IB Disc Interface</b> , high speed	685.
98626A	<b>RS-232 (Serial) Interface</b>	395.
Opt. 001	Provides DTE (male) RS-232C cable (P/N 5061-4215)	79.
Opt. 002	Provides DCE (female) RS-232C cable (P/N 5061-4216)	79.
98627A	<b>RGB Color Video Output Interface</b> with cables	1,045.
98628A	<b>Datacomm Interface</b>	510.
Opt. 001	Provides DTE (male) RS-232C cable (P/N 5061-4215)	90.
Opt. 002	Provides DCE (female) RS-232C cable (P/N 5061-4216)	90.
Opt. 003	Provides DCE (female) RS-449/423 cable (P/N 5061-4250)	184.
98630A	<b>Breadboard Interface</b>	330.
Opt. 001	Service Extender	106.
98633A	<b>6944A Multiprogrammer Interface</b>	400.
98635A	<b>Floating Point Math Card</b>	1,005.
98640A	<b>7-channel ADC Interface</b>	1,040.
Opt. 001	Deletes diagnostic software and test hood	-75.
Opt. 630	Provides diagnostic software on 3½-inch disc	N/C
Opt. 655	Provides diagnostic software on 5¼-inch disc	N/C
98644A	<b>RS-232C Serial Interface</b>	200.

Interface Products for Series 200 (cont'd)

Product No./ Option No.	Description	Price
98645A Opt. 630 Opt. 655	<b>Measurement Library for use with 98640A</b> Provides software on 3½-inch disc Provides software on 5¼-inch disc	\$ 525. N/C N/C
98645R	<b>Right-to-Copy Measurement Library</b>	265.
98646A	<b>VME Interface</b>	1,295.
98647A	<b>PC-IB Interface</b>	865.
98690A Opt. 630 Opt. 650 Opt. 655	<b>PDI Development Package for 98691A (Must order one option below.)</b> For use with 3½-inch external microfloppy disc drive For use with 5¼-inch external flexible disc drive For use with 5¼-inch internal flexible disc drive	425. 425. 425.
98691A Opt. 001 Opt. 002 Opt. 003	<b>Programmable Datacomm Interface</b> Provides DTE (male) RS-232C cable (P/N 5061-4215) Provides DCE (female) RS-232C cable (P/N 5061-4216) Provides DTE (male) RS-449/423 cable (P/N 5061-4250)	685. 100. 100. 184.
9888A	<b>Series 200 Bus Expander, 48-66 Hz, 16-slot card cage with 1.6m cable (provides 15 additional backplane slots)</b>	4,155.

Series 200 Upgrade Kits

Product No.	Description	Returned Parts	Price* List/Exchange
98143A†	<b>CPU Upgrade Kit for 9826, 9836</b>	09826-66514 or -66515	\$1,605.
98143P†	<b>Upgrade for 9816 to have ID PROM Capability</b>	None	\$165.
98143U†	<b>CPU Upgrade Kit to convert 9920, 9826, 9836 and 9836C to machine with MMU hardware and 12.5 MHz processor (Requires BASIC 4.0 or Pascal 3.1 or later revisions.)</b>	09826-66514, -66515, -66516, or 09836-66510	\$3,210.

\* Kit billed at list price. Returned parts are credited, making net cost equal the exchange price. † Field installation is required at an addition cost.

Language Systems

BASIC Language System

Product No./ Option No.	Description	Price
98601A	<b>ROM-based BASIC 2.0 Language System.</b> Includes one system ROM board, BASIC 2.0 Language Manual Kit, BASIC 2.0 Utilities Pack. (Order one media option below.)	\$ 1,445.
98602A	<b>ROM-based BASIC 2.0 with BASIC Extensions 2.1 Language System.</b> Includes one system ROM board, BASIC 2.0/2.1 Language Manual Kit, and BASIC 2.0/2.1 Utilities Pack. (Order one media option below.)	3,060.
98603A	<b>ROM-based BASIC 4.0.</b> Includes one system ROM board, BASIC 4.0 Manual Kit, and BASIC 4.0 Utilities Pack. The ROM board contains all BASIC 4.0 binaries except SRM, Datacomm and KNB_2. These binaries are provided in software separately. (Order on media option below.)	1,895.
98611R	<b>Right-to-Reproduce BASIC 2.0 Language System (2.0 manuals provided)</b>	280.
98612R	<b>Right-to-Reproduce BASIC Extensions 2.1 System (2.1 manuals provided)</b>	260.
98613B Opt. 001	<b>RAM-based BASIC 4.0 Language System.</b> Includes one system disc set, BASIC 4.0 Language Manual Kit and BASIC 4.0 Utilities Pack. (Order one media option below.) Upgrade from a previous BASIC Language System	875. -340.
98613R Opt. 001 Opt. 100	<b>Right-to-Reproduce BASIC 4.0 Language System.</b> Includes BASIC 4.0 Language Manual Kit and right-to-reproduce license. Upgrades from a previous version of BASIC Right-to-Reproduce product. Delete manuals	620. -170. -90.

BASIC Language System (cont'd)

Product No./ Option No.	Description	Price
98613-11Y40*	<b>Compiled Subprogram Utilities for Series 200</b> for use with BASIC 4.0 and Pascal 3.1 (both language systems are required for development). Series 200 compiled subprogram utilities allows you to develop compiled programs in Pascal/Assembly.	\$ 300.
09800-10X40†	<b>Compiled Subprogram Utilities for Series 200</b> for use with BASIC 2.0 and Pascal 2.1 (both language systems are required). Series 200 Compiled Subprogram Utilities allows development of programs compiled in Pascal/Assembly.	300.
98616A	<b>RAM-based BASIC 5.0 Language System.</b> Includes one system disc set, BASIC 5.0 Manual Kit and BASIC 5.0 Utilities Pack. (Order one disc media option.)	875.
Opt. 001	Upgrade from a pervious BASIC Language system.	-340.
Opt. 042	Software on 5¼-inch disc.	N/C
Opt. 044	Software on 3½-inch disc, single-sided format on double-sided disc.	N/C
Opt. 045	Software on 3½-inch disc, double-sided format.	N/C
98616R	<b>Right-to-reproduce one (1) copy of BASIC 5.0.</b> For any customer with a valid Licensed Distributor Contract on file.	620.
Opt. 100	Delete manuals.	-90.
98616M	<b>Right-to-reproduce one (1) copy of BASIC 5.0.</b> For VEUs, SRM users or end users.	620.
Opt. 100	Delete manuals.	-90.
98616-11x40†	<b>BASIC 5.0 Compiled Subprogram Utilities (CSUB).</b> For use with BASIC 5.0 and Pascal 3.2. These utilities allow you to develop compiled subprograms in Pascal or Assembly that are callable by BASIC.	300.
98616-17x40†	<b>BASIC 5.0 CSUB Utility Upgrade.</b> This upgrades previous version of the Compiled Subprogram Utilities to the current version.	58.
98616-78901	<b>BASIC Documentation Kit</b> (order from DMK)	350.
98618A	<b>BASIC 5.0 Compiler</b>	505.
98618-17x00	<b>BASIC 5.0 Compiler Upgrade Kit</b> (order from DMK)	350.

\* The Y in the part number indicates media option:  
 2 is for 5¼-inch external format  
 4 is for 3½-inch double-sided discs recorded single-sided  
 5 is for 3½-inch double-sided discs recorded double-sided

† The X in the part number indicates media option:  
 3 is for 5¼-inch external format  
 5 is for 3½-inch double-sided discs recorded single-sided  
 6 is for 3½-inch double-sided discs recorded double-sided

Pascal Language System

Product No./ Option No.	Description	Price
98617A	<b>RAM-based Pascal 3.2 Language System.</b> Includes system disc set and Pascal 3.2 Language Manual Kit. (Order one disc media option below.)	\$ 1,015.
Opt. 001	Upgrade from a previous version of Pascal Language System.	-400.
98617-87901	<b>Pascal Documentation Kit</b> (order from DMK)	350.
98617R	<b>Right-to-reproduce Pascal 3.2.</b> For any customer with a valid Licensed Distributor Contract on file.	710.
Opt. 100	Delete manuals.	-90.
98617M	<b>Right-to-reproduce Pascal 3.2.</b> For VEUs, SRM-users or end users.	710.
Opt. 100	Delete manuals.	-90.
98617E	<b>Right-to-execute Pascal 3.2.</b> For any customer with a valid Licensed Distributor Contract on file. Additional 99 certificates for Pascal 3.2 Right-to-execute. Allows 99 more right-to-execute products. Must have a valid Licensed Distributor Contract on file.	310. 5,820.
98615C	<b>RAM-based Pascal 3.1 Language System.</b> Includes system disc set and Pascal 3.1 Language Manual Kit. (Order one media option below.)	1,015.
Opt. 001	Upgrade from previous version of Pascal Language System.	-400.
98615R	<b>Right-to-Reproduce Pascal Language System.</b> Includes Pascal 3.1 Language Manual Kit and right-to-reproduce license.	710.
Opt. 001	Discount for second and subsequent upgrades from previous versions of Pascal Language Systems.	-200.
Opt. 100	Delete manuals	-110.
98615E	<b>Right-to-Execute Pascal Language System.</b> Certificate for stand-alone applications using portions of the Pascal Language System.	310.
Opt. 090	99 additional Right-to-Execute certificates (100 total).	5,820.
98615-87971	<b>Pascal Systems Internals Documentation</b>	204.

## Media Options for Series 200 Language Systems

Product No./ Option No.	Description	Price
	<b>Specify one media option for each Series 200 language system ordered above.</b>	
Opt. 042	Software on 5¼-inch disc.	N/C
Opt. 044	Software on 3½-inch disc, single-sided format on double-sided disc.	N/C
Opt. 045	Software on 3½-inch disc, double-sided format.	N/C

## HPL Language System

Product No./ Option No.	Description	Price
98604A	<b>ROM-based HPL 2.0 Language System.</b> Includes one system ROM board, HPL Language Manual Kit, HPL Utilities Disc. (Order one media option below.)	\$ 1,515.
98614A	<b>RAM-based HPL 2.1 Language System.</b> Includes system disc set, HPL Language Manual Kit, and HPL Utilities Disc. (Order one media option below.)	380.
98614R	<b>Right-to-Reproduce HPL 2.1 Language System.</b>	190.

## Series 200 HP-UX Compilers

Product No./ Option No.	Description	Price
97054A	<b>Single-user HP-UX Ada® Compiler.</b> Requires HP-UX. Includes Ada compiler, libraries, and utilities. Ada Compiler is a full implementation of the ANSI Ada standard. (ANSI/MIL-STD-1815A-1983) and is validated by the Ada Validations Office.	
Opt. 022	Single-user software on ¼-inch cartridge tape	\$ 3,225.
Opt. 045	Single-user software on 3½-inch double-sided discs	3,225.
97055A	<b>Multi-user HP-UX Ada® Compiler.</b> Requires HP-UX. Includes Ada compiler, libraries, and utilities. Ada Compiler is a full implementation of the ANSI Ada standard. (ANSI/MIL-STD-1815A-1983) and is validated by the Ada Validations Office.	
Opt. 022	Multi-user software on ¼-inch cartridge tape	4,415.
Opt. 045	Multi-user software on 3½-inch double-sided discs	4,415.
Opt. 003	Single-user to multi-user system upgrade. Requires prior purchase of 97054A.	-2,140.

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## Series 200 Shared Resource Management (SRM)

### SRM Servers

Product No./ Option No.	Description	Price
50960A	<b>SRM Server.</b> Includes 98619A SRM operating system, 50962A SRM coax interface, interfaces for video monitor and keyboard, CPU, ½ Mbyte RAM, DMA Controller, and HP-IB interface in 325mm wide case. Must order 82913A monitor and 46021A keyboard separately. Requires 9888A bus expander for more than one SRM interface.	\$ 5,400.
98619A	<b>SRM Operating System.</b> Includes software and manual. Requires 50960A or 9920A Option 500 configurations. Must order one option below. Included in 50960A SRM server.	2,170.
Opt. 022	Software provided on ¼-inch cartridge tape	N/C
Opt. 001	Upgrade to latest software version discount for owners of previous versions	-800.

## SRM Workstation Hardware

Product No./ Option No.	Description	Price
	Hardware required in the Series 200 workstations to connect to SRM Servers via the coax link:	
50962A	<b>SRM Coax Interface.</b> Includes Series 200 SRM interface card and BNC "T" connector. Requires coax interface in server and RS58C/U coax cables with BNC connectors.	\$ 895.
	<b>Coax Cables</b> (PVC insulations with BNC connector installed)	
92227A	1m coax cable	25.
92227B	2m coax cable	27.
92227C	4m coax cable	29.
92227D	8m coax cable	33.
92227E	16m coax cable	39.
92227F	32m coax cable	51.
92227G	64m coax cable	76.
92227H	128m coax cable	126.
	<b>Coax Cables</b> (FEP insulations, without connector)	
92227J	Cut-to-length, coax cable, PCV Jacket, price per meter	0.78
92227K	Cut-to-length, coax cable, FEP jacket, price per meter	3.35
92227L	BNC connector pair for 92227J/K cables	22.50
92227M	BNC connector took kit	450.
92227N	BNC "T" connector	27.50
45695A	BNC 50 Ohm termination pair	40.



## SRM Workstation Software

Product No./ Option No.	Description	Price
	Software required in the workstations to connect to the SRM servers: The access software to connect Series 200 BASIC/Pascal systems is included in BASIC and Pascal language systems revisions 2.1 or later.	
98693A	To connect Series 200 HP-UX systems: <b>SRM Access Utilities for HP-UX</b>	\$ 545.
Opt. 022	Software on 1/4-inch cartridge tape	N/C
Opt. 045	Software on 3 1/2-inch microfloppy disc	N/C

## Local Area Network (LAN)

### LAN Software

Product/Option Number		Description	Price (U.S. List)	
Single-user	Multi-user*		Single-user	Multi-user
50950A	50950A	<b>NS for the DEC VAX Computer software</b>		
Opt. 044	Opt. 044	For HP 9000 to DEC MicroVAX communications. Software on 5 1/4-inch flexible (RX50).	\$ 6,300.	\$ 6,300.
Opt. 200	Opt. 200	For HP 9000 to DEC MicroVAX communications. Software on TK50 cassette tape.	6,300.	6,300.
Opt. 300	Opt. 300	For HP 9000 to DEC 11/725-85X0 communications. Software on 9-track tape.	8,930.	8,930.
Opt. 400	Opt. 400	For HP 9000 to DEC 8600-89X0 communications. Software on 9-track tape.	11,550.	11,550.
50950R	50950R	<b>Right-to-reproduce NS for the DEC VAX Computer software.</b> Requires prior or concurrent purchase of 50950A.		
Opt. 044	Opt. 044	For HP 9000 to DEC MicroVAX communications. Software on 5 1/4-inch flexible (RX50).	5,336.	5,336.
Opt. 200	Opt. 200	For HP 9000 to DEC MicroVAX communications. Software on TK50 cassette tape.	5,336.	5,336.
Opt. 300	Opt. 300	For HP 9000 to DEC 11/725-85X0 communications. Software on 9-track tape.	7,569.	7,569.
Opt. 400	Opt. 400	For HP 9000 to DEC 8600-89X0 communications. Software on 9-track tape.	9,784.	9,784.
50956A	50957A	<b>NS/9000 Series 200 Networking Software.</b> Requires 98643A LAN/300 Link.	415.	1,045.
Opt. 022	Opt. 022	Software on 1/4-inch tape cartridge	N/C	N/C
Opt. 045	Opt. 045	Software on 3 1/2-inch double-sided discs	N/C	N/C

\* Multi-user systems are licensed to a maximum of 16 users.



## LAN Hardware

Product No./ Option No.	Description	Price
98643A	<b>LAN/300 Link</b> (requires 50956A or 50957A). Includes LAN interface, 28641A ThinMAU with integrated 1 meter AUI cable, and BNC "T" connector. (For use with Series 200 also.)	\$ 1,365.
Opt. 241	Delete ThinMAU and "T" Connector for connecting to backbone LAN cable. (Must order MAU and AUI cable separately.)	-350.
	<b>LAN Cables and Accessories</b> For connecting to ThinLAN. ThinLAN coax cable (with BNC connectors installed):	
92227A	1-m coax cable	25.
92227B	2-m coax cable	27.
92227C	4-m coax cable	29.
92227D	8-m coax cable	33.
92227E	16-m coax cable	39.
92227F	32-m coax cable	51.
92227G	64-m coax cable	76.
92227H	128-m coax cable	126.
	<b>ThinLAN coax cable</b> (without connectors):	
92227J	Cut-to-length, PVC (cost per meter)	.78
92227K	Cut-to-length, FEP (cost per meter)	3.35
	<b>ThinLAN Accessories</b>	
92227L	BNC Connector Pair for 92227J/K	22.50
92227M	BNC Connector Tool Kit for 92227J/K	450.
92227N	BNC "T" Connector	27.50
92227P	ThinLAN Terminator Pair	23.00
28641A	ThinMAU Includes 1 meter AUI cable and BNC T-connector (included with 98643A)	350.
	For connecting to Backbone LAN:	
30241A	<b>Backbone LAN MAU and Tap</b>	400.
92256C	<b>LAN MAU and Installation Kit</b> (order once):	39.
	<b>Backbone LAN AUI cables</b> (with connectors attached):	
92254A	6-m FEP AUI Cable	135.
92254B	12-m FEP AUI Cable	200.
92254C	24-m FEP AUI Cable	345.
92254D	48-m FEP AUI Cable	635.
92254E	6-m PVC (11) AUI Cable	85.
92254F	12-m PVC AUI Cable	110.
92254G	24-m PVC AUI Cable	160.
92254H	48-m PVC AUI Cable	250.
	<b>Backbone LAN AUI Cables</b> (without connectors attached) <b>and Tools:</b>	
92255A	FEP Cut-to-length AUI Cable (cost per meter)	13.
92255B	PVC Cut-to-length AUI Cable (cost per meter)	4.50
92255C	LAN AUI Connector kit (order for each 92255A/B connection)	47.
	<b>Backbone LAN Coax Cable</b> (including connectors and terminators):	
92253A	23.4-m FEP without connectors attached	400.
92253B	23.4-m FEP with connectors attached	425.
92253C	117-m FEP without connectors attached	1,500.
92253D	500-m FEP without connectors attached	6,000.
92253E	23.4-m PVC without connectors attached	200.
92253F	23.4-m PVC with connectors attached	225.
92253G	117-m PVC without connectors attached	500.
92253H	500-m PVC without connectors attached	2,100.
	<b>Backbone LAN Coax Cable Tools</b> for attaching connectors (order once):	
92256A	LAN Coax Installation Tool Kit	185.
92229B	LAN Coax Crimp Tool	199.
	<b>For repeatered networks:</b>	
92223A	<b>Repeater Kit.</b> Includes repeater, two 5-meter repeater AUI cables, and 2 repeater MAUs. For connecting to ThinLAN or Backbone LAN coax segments.	4,080.
92223C	<b>20-m Repeater FEP AUI.</b> Includes a single 20 meter repeater AUI cable. For extending the distance between the repeater and repeater MAU (up to 50 meters max).	335.
	<i>Note: For complete information on LAN cables and accessories, see the HP Computer Users' Catalog.</i>	

## HP 9000 Peripherals, Media and Accessories

For detailed information on model numbers and operating systems these peripherals are supported with, please refer to the Series 200 Configuration Reference Manual.

### Data Storage (360 Kbytes - 40 Mbytes)

Product No./ Option No.	Description	Price
9127A	360 Kbyte, 5¼-inch flexible single master disc	\$ 1 090.
9122D	2 x 788 Kbyte, 3½-inch microfloppy dual master disc	1,465.
9122S	788 Kbyte, 3½-inch microfloppy single master disc	1,150.
9153A	10 Mbyte hard disc with 3½-inch 710 Kbyte double-sided microfloppy	2,180.
9154A	10 Mbyte hard disc	1,900.
9133L	40 Mbyte hard disc with 3½-inch 710 Kbyte double-sided microfloppy	5,000.
9134L	40 Mbyte hard disc	4,550.

### CS/80 Hard Disc Storage (24 Mbytes to 404 Mbytes)

Product No./ Option No.	Description	Price
7942A	23.8 Mbyte CS/80	\$ 8,800.
7911P/R Opt. 001	28 Mbyte CS/80 Disc/Tape Dual controller tape drive	15,775. 1,930./ 1,800.
Opt. 140	Delete cartridge tape drive	-3,390.
7907A	41 Mbyte fixed/removable drive: 20½ removable; 20½ fixed; CS/80, HP-IB	13,420.
7946A	55.5 Mbyte disc/tape drive	10,375.
7912P/R	65 Mbyte CS/80 disc/tape drive	17,350.
7914P/R	132 Mbyte CS/80 disc/tape drive	19,985.
7957A	81 Mbyte fixed disc drive	5,575.
7958A	130 Mbyte fixed disc drive	8,210.

### Back-up Tape Drives

Product No./ Option No.	Description	Price
9144A	¼-inch Cartridge Tape Drive	\$ 2,350.
35401A	¼-inch Cartridge Autochanger Tape Drive	8,000.
7974A Opt. 800	1600 cpi ½-inch Tape Drive Adds 800 cpi capability	16,500. 3,060.
7980A	6250/1600 cpi ½-inch Tape Drive	23,200.

## Printers

### Characters Per Second

Product No./ Option No.	Description	Price
<b>82906A</b> Opt. 001 Opt. 002 Opt. 003 Opt. 004	<b>160 cps Impact Printer, 50-60 Hz</b> 100 Vac HP-IB interface 120 Vac HP-IB interface 220 Vac HP-IB interface 240 Vac HP-IB interface	\$ 795.
<b>2225A</b>	<b>150 cps Thinkjet Printer</b>	495.
<b>2932A</b> Opt. 046	<b>200 cps Impact Printer</b> Replace RS-232 interface with HP-IB	2,595. 150.
<b>2934A</b> Opt. 046	<b>200 cps Office Printer</b> Replace RS-232 interface with HP-IB (required)	2,995. 150.
<b>3630A</b> Opt. 001 Opt. 001 Opt. 003	<b>PaintJet Color Graphics Printer.</b> 8½-inch printer with 167 cps and seven colors at 180 dpi and 330 colors at 90 dpi. Must specify one option. RS-232 Interface HP-IB Interface Centronix Interface	1,395. N/C N/C N/C

### Lines Per Minute

Product No./ Option No.	Description	Price
<b>2563B</b> Opt. 114 Opt. 290 Opt. 510 Opt. 850	<b>300 lpm Impact Line Printer.</b> 55 dBA, includes quietized cabinet, passive stacker and sound enclosure. Deletes quietized cabinet, passive stacker and sound enclosure HP 9000 interface and 4m cable Bundled option package (004, 005, 008, 068) Configures the printer for use with SRM	\$ 7,790. -1,600. 458. 580. 458.
<b>2564B</b> Opt. 114 Opt. 290 Opt. 510 Opt. 850	<b>600 lpm Impact Line Printer.</b> 55 dBA, includes quietized cabinet, passive stacker and sound enclosure. Deletes quietized cabinet, passive stacker and sound enclosure HP-IB CIPER interface for use with Series 500 Bundled option package (004, 005, 008, 068) Configures the printer for use with SRM	12,950. -1,500. 567. 580. 567.
<b>2566B</b> Opt. 115 Opt. 290 Opt. 500 Opt. 850	<b>900 lpm Impact Line Printer</b> Paper stacker HP-IB CIPER interface for use with Series 500 Printer package, includes Option 015 Configures the printer for use with SRM	22,641. 390. 567. 555. 567.
<b>2567B</b> Opt. 115 Opt. 500	<b>1200 lpm Impact Line Printer</b> Passive paper stacker Printer package (Options 004, 005, 115)	29,170. 390. 555.

### Pages Per Minute

Product No./ Option No.	Description	Price
<b>2686D</b>	<b>LaserJet 500 PLUS Printer, 8 ppm</b>	\$ 4,495.
<b>33440A</b>	<b>LaserJet Series II Printer, 8 ppm</b>	2,595.

## Plotters and Other Graphic Devices

Product No./ Option No.	Description	Price
7440A Opt. 002	<b>A-size, 2-pen Plotter</b> Replace RS-232 interface and cable with HP-IB interface and no cable (required option)	\$ 1,295.
7475A Opt. 002	<b>A...B-size, 6-pen Plotter</b> Replace RS-232 interface and cable with HP-IB interface and no cable (required option)	1,895.
7510A	<b>Color Film Recorder</b>	9,900.
7550A	<b>A...B-size, 8-pen Plotter</b> , sheet feed	3,900.
7570A	<b>DraftPro C/D-size, 8-pen Drafting Plotter</b>	4,900.
17570A	<b>HP-IB Cartridge for 7570 DraftPro Plotter</b>	295.
7595A	<b>DraftMaster I A/E-size, 8-pen Drafting Plotter</b>	9,900.
7596A	<b>DraftMaster II A/E-size, 8-pen Drafting Plotter</b> with roll-feed	11,900.

## Terminals and Displays

Product No./ Option No.	Description	Price
2392A Opt. 160 Opt. 301	<b>12-inch Alphanumeric Display Terminal</b> , 47-66 Hz, 115 Vac Adds approximately two pages of display memory U.S. modem cable	\$ 1,400. 204. 87.
2393A Opt. 301	<b>12-inch Monochrome Graphics Terminal</b> U.S. modem cable	2,295. 87.
2394A Opt. 092 Opt. 093	<b>12-inch Alphanumeric Data Entry Terminal</b> , 47-63 Hz, 120 Vac RS-232C interface CENTRONIC interface	1,910. 204. 204.
2397A Opt. 301	<b>12-inch Color Graphics Terminal</b> U.S. modem cable	3,595. 87.

## Miscellaneous Peripherals

Product No./ Option No.	Description	Price
37212A	<b>1200 Baud Modem</b>	\$ 1,060.
39800A	<b>Programmable Bar Code Reader</b>	965.
39801A Opt. 210 Opt. 222 Opt. 224	<b>Bar Code Reader</b> , 48-66 Hz, 120 Vac 48-66 Hz, 100 Vac 48-66 Hz, 220 Vac 48-66 Hz, 240 Vac	850.
6942A	<b>Multiprogrammer</b>	5,255.
6944A/S	<b>Series 200 Multiprogrammer</b> , 47-63 Hz, 100/120/220/240 Vac	3,800.
92205A	<b>Hayes Smartmodem 1200™</b> (U.S.), 60 Hz, 120 Vac	399.
92205C	<b>Hayes Smartmodem 1200™</b> (Canada), 60 Hz, 120 Vac	399.

Smartmodem 1200™ is a trademark of Hayes Microcomputer Products, Inc.

## HP 9000 Accessories

Product No./ Option No.	Description	Price
13269P	<b>Model 216 Soft Carrying Case</b> (will also hold 9121S/D)	\$ 125.
13269T	<b>Tilt Unit/Swivel Base/9121S/D Soft Carrying Case</b>	40.
1490-0913	<b>Caster Kit</b> for Transit Case	210.
92211L	<b>Taboret Cabinet Rack</b> for Model 550 and 325 mm-wide peripherals	239.
92211M	<b>Taboret Cabinet Rack</b> for Model 220 and 325 mm-wide peripherals	190.
92211R	<b>HP Design Plus Mobile Mini-rack</b> for 325 mm-wide peripherals	550.

## HP 9000 Media

Product No./ Option No.	Description	Price
92192A	Blank 3½-inch, Double-sided Microfloppy Discs (Box of 10)	\$ 49.
92192N	Blank 3½-inch, Double-sided Microfloppy Discs (Box of 100)	349.
92191A	Blank 3½-inch, Single-sided Microfloppy Discs (Box of 10)	39.
92190A	Blank 5¼-inch Flexible Discs (Box of 10)	32.
92195A	Blank 8-inch Flexible Discs (Box of 5)	61.
88140LC	Certified, ¼-inch Tape Cartridges, 600-foot (Box of 5)	215.
88140SC	Certified, ¼-inch Tape Cartridge, 150-foot (Box of 5)	160.

## Customer Training and Consulting

### Series 200 Training

Product No.	Description	HP Site	Customer Site*
35073A	System Administration for Series 200 - 3 days	\$ 700.	\$ 4,800.
50011B	HP-IB - Series 200 BASIC - 5 days	1,320.	10,000.
98510C	Series 200/300 BASIC Operating and Programming - 5 days	1,100.	8,000.

\* Courses can be given at suitably-equipped customer's facility.

### General 9000 Training

Product No.	Description	HP Site	Customer Site*
35128A	Introduction to HP-UX - 5 days	\$ 1,100.	\$ 8,000.
35130A	Programming in C Language - 5 days	1,100.	8,000.
50959A	Using SRM from BASIC and Pascal - 1 day	350.	1,600.
51432A	HP-UX Fundamentals for General Users - 5 days	1,100.	1,100.
51433A	Shell Programming for General Users - 5 days	1,100.	1,100.
51434A	HP-UX for Programmers - 5 days	1,100.	8,000.
51435A	Advanced HP-UX Tools - 5 days	1,100.	8,000.
51438A	SCCS and make utility - 2 days	500.	3,200.
51440A	Document Preparation - 3 days	900.	6,000.
51439A	Advanced Editing with VI - 1 day	300.	1,600.
97005B	HP 9000 BASIC Course - 3 days	600.	4,800.
98501A	BASIC Programming - 4 days	900.	6,400.
98502A	HP 9845 Operating & Programming - 5 days	1,100.	8,000.
98503A	BASIC I/O Programming - 4 days	900.	6,400.
98511B	Pascal Programming - 5 days	1,100.	8,000.
98524A	HPL Operating and Programming - 5 days	1,100.	8,000.
98525A	HPL I/O Programming - 4 days	1,100.	8,000.

\* Courses can be given at suitably-equipped customer's facility.

For more information on training courses, contact the local Hewlett-Packard Applications Engineering Organization.

## General Consulting Services

Field District (ID44)	Regular Hours	After Hours Weekday	Weekends or Holidays
Product Support Representative	51413A \$92/Hr.	51419A \$130/Hr.	51422A \$160/Hr.
Service Engineer (SE)	51414A \$115/Hr.	51420A \$160/Hr.	51423A \$200/Hr.
Specialist	51415A \$145/Hr.	51421A \$200/Hr.	51424A \$255/Hr.

Project Center (ID46)	Regular Hours	After Hours Weekday	Weekends or Holidays
Product Support Representative	35135G \$92/Hr.	35135H \$130/Hr.	35135K \$160/Hr.
Service Engineer (SE)	35135C \$115/Hr.	35135I \$160/Hr.	35135L \$200/Hr.
Specialist	35135D \$145/Hr.	35135J \$200/Hr.	35135M \$255/Hr.

Travel Charge options for HP 51413A – 51424A Consulting Services and HP 35135C – M Project Services.

Opt. 101	Zone 1 Travel Charge	\$120
Opt. 102	Zone 2 Travel Charge	210
Opt. 103	Zone 3 Travel Charge	280
Opt. 104	Zone 4 Travel Charge	440
Opt. 105	Beyond Zone 4 Travel Charge	Quote

For Europe and Intercon only, the following daily rates apply:

51416A	Product Support Representative Daily Rate	\$ 780
51417A	Service Engineer Daily Rate	975
51418A	Specialist Daily Rate	1,230

## HP 9000 Family Hardware Support Services

### Overview

At Hewlett-Packard we want you to get the most out of your workstation products. To meet the goals of maximum uptime and productivity at minimum cost, our products are backed by a range of hardware services. These contractual hardware support programs are designed to meet your price/performance needs and help you get the most out of your HP solution.

In the following section, you will find these services listed alongside Series 300 products, in the same order and categories you found them in the hardware section (minus descriptions). This will allow you to easily look up support services for products in which you are interested.



## Summary of Hardware Support Services

Category	Place of Service	Response Time
<b>Standard (SMMC)</b>	Customer Site (0–100 miles radius from HP Maintenance Service)	Four Hours
<b>BASIC (BMMC)</b>	Customer Site (0–100 miles radius from HP Maintenance Service)	Next Day
<b>Priority (WMMC)</b>	Customer Site (0–100 miles radius from HP Maintenance Source)	Four Hours
<b>Next Day (PMMC)</b>	Customer Site (0–100 miles radius from HP Maintenance Source)	Next Day
<b>Courier (CRMC)</b>	Nearest HP Field Repair Center	
<b>Customer Return (FMMC)</b>	Nearest HP Field Repair Center	

You can choose your hardware-maintenance program, depending upon whether your highest priority is a quick response or a low cost for your workstation products. These services are available for most HP personal and desktop computers, plotters, desktop printers, terminals and associated peripherals. You receive the services of an HP Customer Engineer specially trained in the type of equipment you have. And you get the support level that is right for you, for a known cost.

Maintaining a staff of trained Customer Engineers and stocking each Service Responsible Office and Field Repair Center with its own service inventory and tools assures you that quality maintenance service will be available when you need it.

### Priority On-Site Service (WMMC)

If your workstation applications call for a high level of availability, Priority On-Site Service offers a four coverage hour on-site response. This service is especially valuable if you do not stock spare equipment at your site. Support coverage is from 8:00 a.m. to 5:00 p.m. every business day excluding HP holidays.

### Next Day On-Site Service (PMMC)

Next Day On-Site Service gives you following-day response between the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (excluding HP holidays). If you can wait for a one-workday response, then this service is an economical choice for you.

### Courier Return Service (CRMC)

Courier Return Service allows you to take advantage of HP's low cost return-to-HP service by providing on-site pickup of your workstation products. Our designated courier picks up and delivers your equipment to our service center and then returns it to you, usually within five days of your initial call.

### Customer Return Service (FMMC)

This service provides the lowest cost maintenance for your workstation products. You ship your equipment to an HP Field Repair Center where it will be repaired, tested, and sent back to you within three working days after it is received. If you can afford to be without your equipment or if you have spares at your site, Customer Return Service offers our most economical service.

*Note: Two additional categories, Standard Monthly Maintenance (SMMC) and BASIC Monthly Maintenance (BMMC), will be obsoleted over the next year for workstation products, but will be retained for system products.*

### Series 200 Base Systems Hardware Support

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC
<b>9826A</b> Model 226 Technical Computer Opt. 050	\$14. N/C	\$18. N/C	\$28. N/C	\$35. N/C	\$35. N/C
<b>9836A</b> Model 236 Technical Computer Opt. 050 Opt. 400 Opt. 801	17. N/C N/C N/C	N/A N/A N/A N/A	30. N/C N/C N/C	39. N/C N/C N/C	39. N/C N/C N/C
<b>9836C</b> Model 236C Color Computer Opt. 050 Opt. 801	25. N/C N/C	N/A N/A N/A	43. N/C N/C	64. N/C N/C	64. N/C N/C
<b>9836CU</b> Model 236 Computer Opt. 801	26. N/C	N/A N/A	53. N/C	84. N/C	84. N/C
<b>9836U</b> Model 236 Computer Opt. 400 Opt. 801	24. N/C N/C	N/A N/A N/A	47. N/C N/C	75. N/C N/C	76. N/C N/C
<b>9920A</b> Model 220 Modular Computer Opt. 908	12. N/A	14. N/A	24. N/A	38. N/A	38. N/A
<b>9920U</b> Model 220 Modular Computer Opt. 535 Opt. 908	16. N/C N/A	N/A N/A N/A	32. N/C N/A	51. N/C N/A	52. N/C N/A

### Series 200 Bundled Systems Hardware Support

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC
<b>9816S</b> Model 216 Personal Technical Computer Opt. 001 Opt. 805 Opt. 256	\$10. N/C N/C N/C	\$13. N/C N/C N/C	\$20. N/C N/C N/C	\$29. N/C N/C N/C	\$29. N/C N/C N/C
<b>9826S</b> Model 226 Technical Computer Opt. 001	14. N/C	18. N/C	28. N/C	35. N/C	35. N/C
<b>9836S</b> Model 236 Technical Computer Opt. 001 Opt. 400 Opt. 801	17. N/C N/C N/C	N/A N/A N/A N/A	30. N/C N/C N/C	39. N/C N/C N/C	39. N/C N/C N/C
<b>9836CS</b> Model 236C Color Computer Opt. 001 Opt. 801	25. N/C N/C	N/A N/A N/A	43. N/C N/C	64. N/C N/C	64. N/C N/C

### Series 200 Accessories Hardware Support

#### Keyboards and Monitors

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
<b>98203A</b> Standard Keyboard for Model 220	N/C	N/C	N/C	N/C	N/C	N/C
<b>98203B</b> Large Keyboard and Numeric Pad for Models 216 and 220	N/C	N/C	N/C	N/C	N/C	N/A
<b>82912A</b> 9-inch Monochrome Monitor	N/C	N/C	N/C	N/C	N/A	N/A
<b>82913A</b> 12-inch Monochrome Monitor	N/C	N/C	N/C	N/C	N/C	N/C

## Interface Products Hardware Support

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
50955A 3278 Display Station Emulator (includes software)	N/C	N/A	N/C	N/C	N/A	N/A
50962A SRM Coax Interface	N/C	N/A	N/C	N/C	N/A	N/A
98201A Custom Keypad Interface	N/C	N/C	N/C	N/C	N/C	N/A
98204A Composite Video Card Opt. 090	N/C N/C	N/C N/C	N/C N/C	N/C N/C	N/C N/C	N/A N/A
98253A EPROM Programmer Interface	N/C	N/C	N/C	N/C	N/C	N/A
98255A EPROM CARD	N/C	N/C	N/C	N/C	N/C	N/A
98256A 256 Kbyte RAM Board	N/C	N/C	N/C	N/C	N/C	N/A
98257A 1 Mbyte RAM Board	N/C	N/C	N/C	N/C	N/C	N/A
98259A 128 Kbyte Magnetic Bubble Memory Card	N/C	N/C	N/C	N/C	N/C	N/A
98270F Powerfail Upgrade Kit	N/C	N/C	N/C	N/C	N/C	N/A
98620B Two-channel DMA Controller	N/C	N/C	N/C	N/C	N/C	N/A
98622A 16-bit GPIO Interface	N/C	N/C	N/C	N/C	N/C	N/A
98623A 43-line BCD Interface	N/C	N/C	N/C	N/C	N/C	N/A
98624A HP-IB Interface	N/C	N/C	N/C	N/C	N/C	N/A
98625B HP-IB Disc Interface	N/C	N/C	N/C	N/C	N/C	N/A
98626A RS-232C (Serial Interface)	N/C	N/C	N/C	N/C	N/C	N/A
98627A RGB Color Video Output Interface	N/C	N/C	N/C	N/C	N/C	N/A
98628A Datacomm Interface	N/C	N/C	N/C	N/C	N/C	N/A
98630A Breadboard Interface	N/A	N/A	N/A	N/A	N/A	N/A
98633A 6944A Multiprogrammer Interface	N/A	N/A	N/A	N/A	N/A	N/A
98635A Floating Point Math Card	N/C	N/C	N/C	N/C	N/C	N/A
98640A 7-channel ADC Interface	N/C	N/C	N/C	N/C	N/C	N/A
98644A RS-232C Serial Interface	N/C	N/C	N/C	N/C	N/C	N/A
98645A Measurement Library	N/C	N/C	N/C	N/C	N/C	N/C
98647A VME Interface	N/A	N/A	N/A	N/A	N/A	N/A
98690A PDI Development Package for 98691A	N/C	N/C	N/C	N/C	N/C	N/C
98691A Programmable Datacomm Interface	N/C	N/C	N/C	N/C	N/C	N/C
9888A Series 200 Bus Expander	\$ 4.	\$ 5.	\$ 7.	\$11.	\$11.	\$14.

## Shared Resource Management (SRM)

### SRM Servers

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
50960A SRM Server	N/A	N/A	\$10.	\$16.	\$16.	\$20.

### SRM Workstation Hardware

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
50962A SRM Coax Adapter and Interface	N/C	N/A	N/C	N/C	N/C	N/C
92227A through 92227N Cables	N/A	N/A	N/A	N/A	N/A	N/A
45695A 50-ohm Termination Pair	N/A	N/A	N/A	N/A	N/A	N/A



## Local Area Network (LAN)

### LAN Hardware

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
98643A LAN/300 Link Opt. 241	N/C N/C	N/C N/C	N/C N/C	N/C N/C	N/C N/C	N/C N/C
28641A Thin MAU	N/A	N/A	\$ 2.	\$ 3.	\$ 3.	\$ 4.
30241A Backbone LAN MAU	N/A	N/A	N/A	N/A	9.	12.
92254A through 92254H Cables	N/A	N/A	N/A	N/A	N/C	N/C
92255A through 92255C Cables	N/A	N/A	N/A	N/A	N/C	N/C
92253A through 92253H Cables	N/A	N/A	N/A	N/A	N/C	N/C
92256A Tool Kit	N/A	N/A	N/A	N/A	N/C	N/C
92229B Crimp Tool	N/A	N/A	N/A	N/A	N/C	N/C
92223A Repeater Kit	N/A	N/A	24.	38.	N/A	48.
92223C Repeater FEP AUI	N/A	N/A	N/A	N/A	N/A	N/A

## HP 9000 Peripherals, Media and Accessories Hardware Support

### 360 Kbyte to 40 Mbyte Data Storage

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
9127A 360 Kbyte disc drive	\$ 3.	\$ 4.	\$ 6.	\$10.	N/A	N/A
9122D 2 x 788 Kbyte disc drive	3.	4.	6.	9.	\$ 9.	\$12.
9122S 788 Kbyte disc drive	2.	3.	4.	6.	6.	8.
9153A 10 Mbyte with microfloppy	5.	7.	10.	16.	16.	20.
9154A 10 Mbyte disc drive	4.	5.	8.	13.	13.	16.
9133L 40 Mbyte with microfloppy	16.	18.	24.	38.	38.	48.
9134L 40 Mbyte	14.	16.	22.	35.	35.	44.
92240B Swivel Base unit for desktop disc drives	N/A	N/A	N/A	N/A	N/C	N/C

### 24 Mbyte - 404 Mbyte CS-80 Hard Disc Storage

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
7942A 23.8 Mbyte	\$22.	N/A	\$44.	\$44.	\$44.	\$54.
7911P/R 28 Mbyte disc/tape Opt. 001 Opt. 140	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	45. 20. N/A	57. 25. N/A
7907A 41 Mbyte fixed/removable drive	N/A	N/A	N/A	N/A	80.	96.
7946A 55.5 Mbyte disc/tape	25.	N/A	50.	50.	50.	63.
7912P/R 65 Mbyte disc/tape	N/A	N/A	N/A	N/A	47.	59.
7914P/R 132 Mbyte disc/tape	N/A	N/A	N/A	N/A	55.	69.
7935H 404 Mbyte removable media	N/A	N/A	N/A	N/A	103.	130.
7957A 81 Mbyte fixed disc drive	14.	N/A	28.	28.	28.	35.
7958A 130 Mbyte fixed disc drive	15.	N/A	29.	29.	29.	37.

### Back-up Tape Drives

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
9144A ¼-inch cartridge tape drive	\$ 6.	\$ 8.	\$11.	\$11.	\$11.	\$ 14.
35401A ¼-inch cartridge autochanger tape drive	N/A	N/A	N/A	N/A	35.	42.
7974A Opt. 800	N/A N/A	N/A N/A	N/A N/A	N/A N/A	80. 14.	100. 17.

### Printers

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
82906A 160 cps impact printer	\$ 2.	\$ 3.	\$ 5.	\$ 8.	\$ 8.	\$ 10.
2225A 150 cps <i>Thinkjet</i> printer	2.	3	4.	6.	N/A	N/A
2932A 200 impact printer	7.	9.	13.	21.	21.	26.
2934A 200 cps office printer	8.	10.	15.	24.	24.	26.
2563B 300 lpm impact line printer	N/A	N/A	N/A	N/A	47.	59.
2564B 600 lpm impact line printer	N/A	N/A	N/A	N/A	157.	197.
2566B 900 lpm impact line printer	N/A	N/A	N/A	N/A	175.	219.
2567B 1200 lpm impact line printer	N/A	N/A	N/A	N/A	186.	233.
33440A 8 ppm laser printer	14.	N/A	27.	43.	N/A	N/A
2686D 8 ppm laser printer	24.	N/A	47.	75.	N/A	N/A

### Plotters, and Other Graphic Devices

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
7440A A-size, 2-pen plotter	\$ 3.	\$ 3.	\$ 4.	\$ 7.	N/A	N/A
7475A A...B-size, 6 pen plotter	4.	5.	7.	11.	\$ 11.	\$ 13.
7510A color film recorder	13.	16.	25.	40.	N/A	N/A
7550A A...B-size, 8-pen plotter	10.	13.	20.	32.	32.	40.

### Terminals and Displays

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
2392A 12-inch terminal	\$ 3.	\$ 4.	\$ 6.	\$10.	\$10.	\$12.
2393A 12-inch terminal	3.	N/A	5.	8.	8.	10.
2394A 12-inch terminal	3.	4.	5.	8.	8.	10.
2397A 12-inch terminal	3.	N/A	6.	10.	N/A	12.

### Miscellaneous Peripherals

Product Number/Name	FMMC	CRMC	PMMC	WMMC	BMMC	SMMC
37212A 1200 baud modem	N/A	N/A	N/A	N/A	\$ 5.	\$ 5.
39800A bar code reader	\$ 2.	\$ 3.	\$ 4.	\$ 6.	6.	7.
39801A bar code reader	2.	3.	4.	6.	6.	7.
6942A multiprogrammer	N/A	N/A	N/A	N/A	38.	57.
6944A multiprogrammer	N/A	N/A	N/A	N/A	8.	11.
6944S multiprogrammer	N/A	N/A	N/A	N/A	20.	30.

# HP 9000 Family Software Support Services

Hewlett-Packard's software services span a broad range – from personal on-site assistance to materials-only services. These levels give flexibility in choosing the level of HP support to meet changing requirements.

## Operating Systems Support

The following services are available to support a central system.

**Account Management Support** – Provides a local account SE, on-site assistance, one Response Center caller (a system manager) and one alternate for telephone assistance, and a Software Materials Subscription.

**Response Center Support (RCS)** – Provides one Response Center caller and one alternate for telephone assistance and Software Materials Subscription.

**Software Materials Subscription (SMS)** – Provides software and manual updates, Software Status Bulletins, and *HP communicator* magazine. Updates to ROM-based systems are not provided.

The following services are available to support an additional system:

**Additional System Coverage** – Extends AMS or RCS coverage on the operating system to one additional system under the same System Manager. All support is delivered through the central system.

**Extended Materials Support** – Extends SMS by providing the right to make one copy of all central system materials for use on one additional system.

The following optional services are also available for central or additional systems:

**Additional Response Center Caller** – Provides one additional caller and one alternate for access to the HP Response Center.

**Manual Update Service (MUS)** – Provides one copy of updates to software reference manuals.

**Software Notification Service (SNS)** – Provides issues of the *HP communicator* and *Software Status Bulletin*.

## Application Software Support

**Software Materials Subscription (SMS)** – Provides software and manual updates, *Software Status Bulletin*, and *HP communicator* magazine. SMS must be ordered for each piece of subsystem and application software.

**Extended Materials Support (EMS)** – Extends Software Materials Subscription by providing the right to make one copy of all central system materials for use on one additional system.

**Manual Update Service (MUS)** – Provides one copy of updates to software reference manuals.

In addition, all HP software, except operating systems, is separated into software support groups. For subsystem software, these groups are referred to as "Categories". For application software, they are referred to as "Families".

If RCS levels of support are selected for the operating system, Family support products must be ordered for applications software.

**Family Support: Central System** – Provides local assistance and/or access to the Response Center in accordance with the level of support selected for the family. Entitles customer to a new Response Center caller and an alternate for each family supported.

**Family Support: Additional System Coverage** – Extends Family Support on the central system to one additional system. All support is delivered through the central system.

**HP Helpline:** In the United States, customer support for certain products is provided by HP Helpline at 1-800-858-8867. Support may be purchased either on a per-incident basis (charge per call) or contractually (monthly charge, unlimited calls per month).

Outside of the US, support is provided by the country HP Helpline. For further information, contact your region or local sales office.

**Application Support:** Support for certain products is provided through the local sales office on a time and materials basis.

## Product Numbering for Support Services

A plus (+) symbol followed by a three-character suffix is attached to each software product. The first letter in the suffix identifies the software support service:

Letter	Software Support Service
H	Response Center Support
P	Additional Response Center Caller
Q	Manual Update Service
S	Software Materials Subscription
T	Account Management Support
V	Additional System Coverage
W	Extended Materials Support

The numbers in the suffix designate the media option, if one is required. A media option must always be specified for the operating system on a central system. If the software configuration on an additional system is not the same as, or a subset of, the central system, then a media option must be specified for the additional system.

# Series 200 Operating Systems Support Services

## Series 200 Language Systems

Note: AMS is not offered for Series 200 BASIC, HPL, and Pascal language systems.

Software Product No.	AMS	RCS	SMS	ASC	Ext. SMS	MUS	ARCC	SNS*
<b><u>BASIC</u></b>								
<b>98616A RAM-based BASIC</b>				+ V00 \$15/mo	+ W00 \$10/mo	+ Q00 \$5/mo	+ P00 \$100/mo	+ N00 \$10/mo
5¼" internal flexible disc		+ H42 \$75/mo	+ S42 \$20/mo	+ V42 \$5/mo	+ W42 \$5/mo			
3½" microfloppy, single-sided format		+ H44 \$75/mo	+ S44 \$20/mo	+ V44 \$5/mo	+ W44 \$5/mo			
3½" microfloppy, double-sided format		+ H45 \$75/mo	+ S45 \$20/mo	+ V45 \$5/mo	+ W45 \$5/mo			
<b><u>BASIC Compiler</u></b>								
<b>98618A BASIC Compiler</b>					+ W00 \$10/mo	+ Q00 \$5/mo		
5¼" internal flexible disc			+ S42 \$15/mo					
3½" microfloppy, single-sided format			+ S44 \$15/mo					
3½" microfloppy, double-sided format			+ S45 \$15/mo					
<b><u>Pascal</u></b>								
<b>98617A RAM-based Pascal</b>				+ V00 \$20/mo	+ W00 \$10/mo	+ Q00 \$5/mo	+ P00 \$100/mo	+ N00 \$10/mo
5¼" internal flexible disc		+ H42 \$80/mo	+ S42 \$25/mo	+ V42 \$10/mo	+ W42 \$10/mo			
3½" microfloppy, single-sided format		+ H44 \$80/mo	+ S44 \$25/mo	+ V44 \$10/mo	+ W44 \$10/mo			
3½" microfloppy, double-sided format		+ H45 \$80/mo	+ S45 \$25/mo	+ V45 \$10/mo	+ W45 \$10/mo			

\* This service includes only the HP communicator and Software Status Bulletin.

## Series 200 Operating System Manual Update Services (MUS)

Update Service	Product No.	MUS
<b>BASIC Language System MUS</b>	98613A or 98613B	+ Q00 \$5/mo
<b>Pascal Language System MUS</b>	98615B or 98615C	+ Q00 \$5/mo
<b>Pascal Systems Internal Documentation</b>	98615-87971	98088Q \$1/mo

## Series 200 Category Support Services

Category support services do not include software materials subscription. To obtain SMS for a product in a category, SMS for that product must be ordered separately.

Category	Category Support	Additional System Coverage	MUS
<b>Languages</b> 97054A HP-UX Single-user Ada 97055A HP-UX Multi-user Ada	99081F+C00 \$20/mo	99081F+V00 \$5/mo	99081F+Q00 \$5/mo
<b>Data Management</b> 33402A HPTe <sub>x</sub> 98819A HP TechWriter	99083F+C00 \$22/mo	99083F+V00 \$5/mo	99083F+Q00 \$5/mo
<b>Datacomm A</b> 98791B HP 2392A/VT100 Terminal Emulator	99085F+C00 \$5/mo	99085F+V00 \$3/mo	N/A
<b>Datacomm C</b> 50956A/7A NS/9000 Series 200	99087A+C00 \$25/mo	99086F+V00 \$5/mo	99086F+Q00 \$10/mo

## Purchase Plans

Both hardware and software support services are covered under our Customer Support Services Agreement. Contact your HP Sales Representative for more information.

Hewlett-Packard maintains fully-trained and well-equipped service operations at more than 170 offices worldwide. Contact your nearest sales office for specific prices and plans.

## Warranties

The warranty covering a specific system is determined by the HP WARRANTY AND INSTALLATION TERMS in effect at the time of purchase. These terms are specified in HP Pub. No. 5954-1617(D) for the United States and in similar documents for other countries.



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