
HP 9000 Series 300 Family

Workstation and Controller Products

Price and Configuration Guide

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Introduction

Series 300

Hewlett-Packard's HP 9000 Series 300 Motorola 68K Family continues to offer the best platform to address the needs of most monitoring and control applications in measurement and industrial automation.

There are many benefits of the Series 300 including support of a full range of I/O interfaces, direct connect expanders, and form factors designed to comply with standard rack-mounting requirements. The Model 362 and Model 382 products offer a long minimum product

life (5 years) and a long support life (10 years) in compliance with the common Industrial Automation demand for product serviceability over long application life-cycles.

This guide contains information on HP's newest Series 300 products, the Model 362, R/362, 382, and R/382, as well as the Model 380. Also included is the new Model V/382 and accessory products for other Series 300 systems.

Series 300 Investment Protection

The Series 300 has long been recognized for offering strong investment protection, a benefit customers have come to expect from Hewlett-Packard. Board upgrades exist from most Series 300 platforms to the recently available MC68040 processor. All Series 300 systems and Series 200 are eligible for HP's Trade Up Program. As HP's hardware platforms improve in capability and price/performance, so does HP's operating system, software and networking offering.

In Measurement Automation

HP VEE is HP's visual engineering environment designed to meet the needs of engineers and scientists who can now develop test software without writing code. From HP VEE you can select the objects necessary for your solutions and link them together creating an executable block diagram. With HP VEE, you can spend time concentrating on measurement engineering — not programming.

HP BASIC 6.2 converges HP BASIC/DOS, HP BASIC/WS and HP BASIC/UX into a common language syntax and documentation set. This insures that software written on any new platform, will easily port to the other platforms. Additionally, HP's new HP BASIC Plus product can be used with all three HP BASIC 6.2 platforms, and will provide new keywords providing applications with an extensive combination of single command dialogue boxes, graphical displays and an on-line help facility for HP BASIC systems.

In Industrial Automation

HP's RTAP delivers a state-of-the-art software enabler technology for industrial systems integrators who are building supervisory control and data acquisition systems. RTAP is an integrated tool kit providing database, calculations engine, scan system, process scheduler, event manager and time keeper facilities.

HP also offers networking to a wide variety of dedicated controller solutions and PC-based Measurement Coprocessors via an SRM/UX server. This server allows test systems to transparently pass data over the network without the running of HP-UX on each test system.

HP-UX 8.0 on the Series 300 offers support for HP-VUE (HP's object oriented graphical interface). It has improved compiler performance, support for shared libraries, key shell for enhanced ease-of-use and Network Computing Systems (NCS) run-time capability.

Introduction

The Model 362 and R/362

The MC68030-based Model 362 system was designed specifically to run HP BASIC/WS, HP's industry-leading instrument control operating system and language. Model 362 workstation controller bundles use a 640 x 480 pixel resolution color display system. The Model R/362 integrated bundle

includes a built-in 640 x 480 grey-scale monitor. Both models offer 52 or 400 Mbyte pre-installed disk options and are available with memory configurations from 2 to 16 Mbytes of Parity SIMM RAM. The 362 also offers a 200 Mbyte pre-installed disk option.

The Model 382 and R/382

The MC68040-based Model 382 system offers high performance for HP-UX applications as well as offering leading-edge performance for HP BASIC/WS applications. Model 382 workstation controller bundles use either a 640 x 480, 1024 x 768 or 1280 x 1024 pixel resolution color display system. The

Model R/382 integrated bundles include a built-in 640 x 480 grey-scale monitor. Both models offer 52 or 400 Mbyte pre-installed disk options and are available with memory configurations from 4 to 32 Mbytes of ECC SIMM RAM. The 382 also offers a 200 Mbyte pre-installed disk option.

Good news for HP's Industrial Automation Customer

The new Industrial Automation focus of the Series 300 (specifically the 382) is great news for users! HP has taken the best workstation technology and tuned the packaging and I/O offering. HP's commitment to standards, robust UNIX operating system, HP-UX (which includes our new HP VUE), and excellent reliability

are key reasons why the industrial automation users will choose HP. HP-UX products offer industry standard networking to allow you to connect into your existing heterogeneous environment. HP RTAP provides a very high level user interface platform for SCADA applications builders

For the Reseller . . .

The Series 300 has always provided good returns for OEMs and VARS, and now it is even better! HP is committed to providing long product lives (at least 5 years for new products) and long support lives (at least 10 years for new products). The Series 300 packaging provides

flexibility and efficiency in both I/O and integrated peripheral devices so that resellers can configure systems to meet their customers needs. The Series 300 packaging is also ideal for integration within standard 19-inch racks.

Series 300 Overview

Workstation Controllers				Integrated R-Series		Embedded VXI
Model 362		Model 382		Model R 382		Model V 382
Processor	68030	68040	68040	68030	68040	68040
Clock Speed	25	25	25	25	25	25
MIPS	6	22	22	6	22	22
MFLOPS	N/A	2.6	2.6	N/A	2.6	2.6
SPECMARKS	N/A	11	11	N/A	11	11
RAM Type	Parity SIMM	ECC SIMM	ECC SIMM	Parity SIMM	ECC SIMM	ECC SIMM
RAM min/max	2 to 16 Mbytes	4 to 32 Mbytes	8 to 128 Mbytes	2 to 16 Mbytes	4 to 32 Mbytes	8 to 32 Mbytes
Standard Built-in Interfaces	HP-IB, HP-HIL, RS-232C, Audio, Parallel	HP-IB, HP-HIL, RS-232C, Audio, Parallel	HP-IB, HP-HIL, RS-232C, Audio, Parallel, SCSI, LAN	HP-IB, HP-HIL, RS-232C, Audio, Onboard 640 x 480 video, Parallel	HP-IB, HP-HIL, RS-232C, Audio, On board 640 x 480 video, Parallel	LAN, SCSI, Parallel, Video Out, VXI
Optional Built-In Interfaces	LAN, SCSI	LAN, SCSI	High Speed HP-IB in place of SCSI	LAN, SCSI	LAN, SCSI	Thin LAN to AUI
Available Slots	1 DIO Slot	1 DIO Slot	1 DIO-II Slot	4 DIO Slots 1 Accessory Slot	4 DIO Slots, 1 Accessory Slot	None
Supported Expanders	DIO, DIO-II	DIO, DIO-II	DIO, DIO-II, VME	None	None	None
Graphics	Color 640 x 480	Color 640 x 480 , 1024 x 768 or 1280 x 1024	Color 512 x 400, 1024 x 768 or 1280 x 1024	Greyscale (640 x 480)	Greyscale (640 x 400)	Color 640 x 480 Optional: 1024 x 768 1280 x 1024
Internal Mass Storage	Optional: Flexible Drive, 52, 200, 420 Mbyte Hard Drives	Optional: Flexible Drive, 52, 200, 420 Mbyte Hard Drives, CD-ROM	Not Available	Standard: Flexible Drive, 52 Mbyte Hard Drive	Standard: Flexible Drive, 52 Mbyte Hard Drive	Not Available
Operating Systems (earliest supported)	HP BASIC/WS 6.2, Pascal 3.2	HP BASIC/WS 6.2, Pascal 3.2, HP-UX 8.0	HP-UX 7.05, HP BASIC/WS 6.2, HP BASIC/UX 6.2, Pascal 3.2	HP BASIC/WS 6.2, Pascal 3.2	HP BASIC/WS 6.2, Pascal 3.2, HP-UX 8.0, HP BASIC/UX 6.2	HP-UX 8.0 HP BASIC/WS 6.2



Workstation Controllers

Technical Specifications

SPU		
	362	382
Central Processor		
Clock	MC68030	MC68040
Clock	25 MHz	25 MHz
Integer performance	6 MIPS	22 MIPS
Floating Point		
	MC68882	Included
Clock frequency	25 MHz	
Performance	0.2 MFLOPS	2.4 MFLOPS
Memory Management Unit		
Type	On CPU chip	
Virtual memory (HP-UX only)	4 Gbytes/process	
Contexts	84 default, user-settable	
Cache Memory		
	362	382
Type	On chip	On chip
Size (data)	256 bytes	4 Kbytes
Size (instruction)	256 bytes	4 Kbytes
Main Memory		
	362	382
Type	Parity SIMM	ECC SIMM
RAM capacity	2-16 Mbytes	4-32 Mbytes
Bus width	32 bit data/ 32 bit address	
Cycle time read	200 nsec	200 nsec
Cycle time write	200 nsec	80 nsec
Cache line read	440 nsec	340 nsec
Cache line write		300 nsec

Software	
Operating system*	HP BASIC/WS 6.2 HP Pascal/WS 3.2 HP-UX 8.0 (382 only) Other third party environments are also available.
Language/ Environments*	C, Pascal, FORTRAN, HP BASIC, Ada, Common LISP, HP BASIC/UX, HP VEE
Networking Options	
LAN	IEEE 802.3/Ethernet interface with ThinMAU and BNC™ connector and AUI (jumper selectable)
Protocol	X 25, SNA, RJE
Mass Storage**	
Internal SCSI Hard Drive	
Format	3.5 inch
Formatted capacity	52/210/420 Mbytes
Average seek time	17/15/14 msec
Average latency	8.3 msec
Transfer rate	1.5 Mbyte/sec (sustained) 4 Mbyte/sec (burst)
Internal SCSI 3.5 inch Floppy	
Format	1.44 Mbytes
Average seek time	15 msec
Average latency	100 msec
Transfer rate	435 Kbytes (sustained)

Data Rate	
Internal burst	11 Mbits/sec
SCSI bur	1.5 Mbytes/sec
Read throughput	920 Kbytes/sec
Keyboard	
Type	127-key, low profile, HP-HIL Available in 22 local languages.
Mouse	
Type	3-button, roller-ball, HP-HIL
Graphics Subsystems	
Standard***	VGA compatible color (640 x 480) 14 inch 60 Hz color monitor (256 colors)
Optional on 382	SGC medium-resolution color (1024 x 768) 16 inch 75 Hz color monitor (256 colors) (Opt. ADX) SGC high resolution color (1280 x 1024) 19 inch 75Hz color monitor (256 colors) (Opt. ADJ)

I/O Specifications

LAN Interface (optional)	
Type	IEEE 802.3
Data rate	10 Mbits/sec.
Connectors	15-pin AUI (Attachment Unit Interface) and BNC tee
MAUs	IOBASE2 built-in IOBASE5 requires p/n 30241A StarLAN requires p/n 28664A
SCSI Interface (optional)	
Type	SCSI-I (ANSI X3.131-1986), single-ended
Data rate	4 Mbytes/sec, synchronous 1.5 Mbytes/sec., async.
Device limit	7 per interface
Connector	50 pin high density
Cable	Not included

HP-IB Interface (standard)	
Type	IEEE 488
Data rate	350 Kbytes/sec.
Device limit	14 per interface, nominal
Connector	24-pin stacking IEEE
Cable	Not included
HP Parallel Interface (standard)	
Type	Bi-directional 8-bit parallel
Data rate	200 + Kbytes/sec. with DMA
Device limit	1 per interface
Connector	25-pin female
Cable	Not included

Serial Interface (standard)	
Type	RS-232C
Data rate	To 19.2 Kbaud
Device limit	1 per interface
Connector	25 pin female
Buffering****	16 byte transfer/receive FIFO
Human Interface (standard)	
Type	HP-HIL
Device limit	7 per interface
Connector	AMP SMD

Clock and Timers

Real-time Clock	
Resolution	10 milliseconds
Accuracy	+5 seconds/day
Battery backup	Lithium, expected life = 1 year

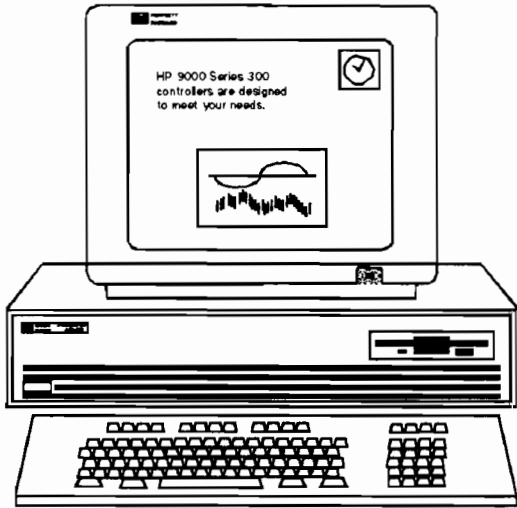
Timers	
Match interrupt	Match on time of day 0.00 to 84600.00 sec.
Delay interrupt	10 msec. to 1.94 days
Cyclical interrupt	10 msec. to 1.94 days
System timer	4 msec. resolution accurate to 25 ppm

* For HP-UX and HP-UX based languages, environments and applications must order 382
 **Additional integrated mass storage available
 *** Drives VGA compatible monitor
 **** 2 additional RS232 8 byte FIFO buffers optional on 382

Audio (External Jack)

Three independent tone generators controllable over 30 db.	
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Frequency range	81.46 Hz to 83.3 KHZ
Duration	.01 sec. to 2.55 second/tone



MC68030 CPU at 25 MHz

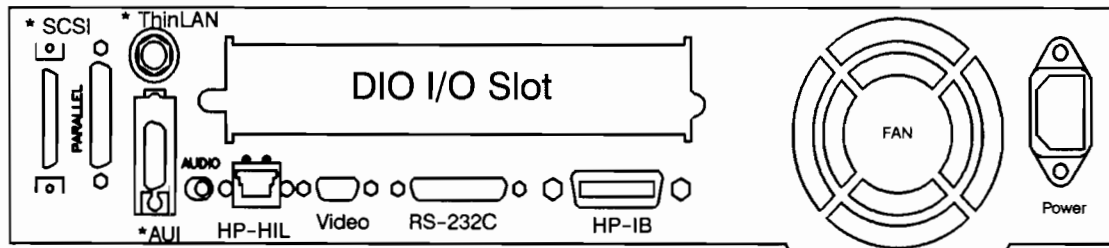
362 Product Numbers
A1473A - 362 SPU
A2240A - 362 HP BASIC/WS
A2251A - 362 Controller Bundle

362 Operating System Support
HP BASIC/WS 6.2 or later
Pascal - 3.2

**Keyboard Localization Kit
(Must Order Separately)**
A1099A - HP BASIC/WS and Pascal Keyboard Kit

Model 362

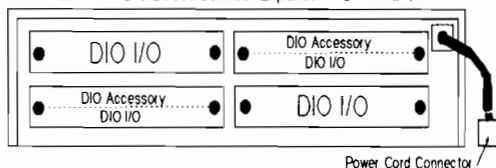
Back View



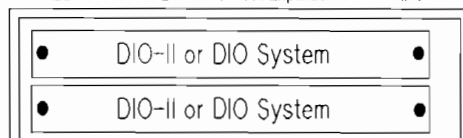
* LAN and SCSI are Optional. High Density SCSI Connector.
SCSI Connector is HDSL(M).

Expanders

A2246A - DIO Direct Connect Expander - Back Panel



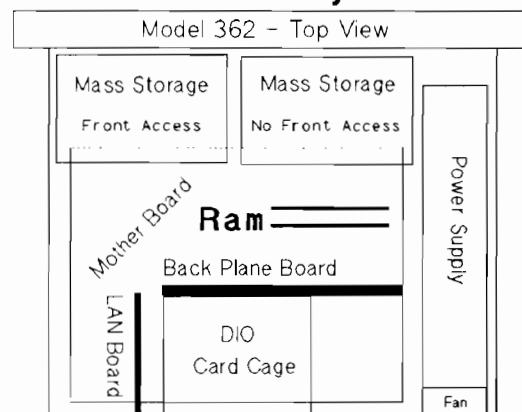
A2247A - DIO-II Direct Connect Expander - Back Panel



Maximum of two expanders per system, any combination.

Per system, one or two DIO-II slots can be converted to DIO I/O slots using the A1401A adapter. The 98242A/B kit is incompatible with the 362 and 382 controllers.

Memory



D2381A - 2 megabyte RAM.

D2156A - 4 megabyte RAM.

D2152A - 8 megabyte RAM.

Configurations of 2, 4, 6, 8, 10, 12, and 16 megabytes are supported.

RAM boards are double-sided and keyed.

RAM is Parity SIMM (Each product occupies one slot).

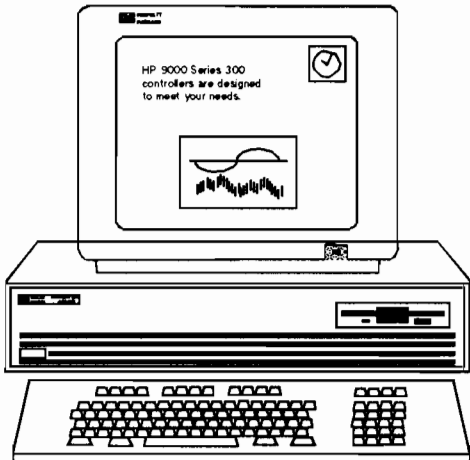
Workstations

Model 362 — System Processing Unit with Monitor and Flexible Disk

Product/ Opt. No.	Component	Description	U.S. List Price
A2251A		Model 362 — System Processing Unit with Monitor and Flexible Disk Model 362 Controller SPU including: MC68030, 25 MHz, 2 Mbytes Parity SIMM RAM Color Graphics Output, 640 x 480 (VGA) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (keyboard cable comes with Localization Kit) Audio interface 1 available DIO I/O slot and 1 available RAM slot. Also includes: 3.5-inch Flexible Disk Drive (in Storage Bay One). 14-inch VGA color monitor.	\$5,290.
	A2252A		
Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A and localization option).			
Note: Does not include software.			
Opt. ALK	A2256A	Add SCSI Interface. (High density connector with terminator. No cable.)	\$200.
Opt. ALJ	A2255A	Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated).	\$700.
Opt. 8ZF	A2249A	Add MC68882 Math Coprocessor. (Attaches to Processor Board, No DIO slots required)	\$400.
Opt. ANM		Configure with 4 Mbytes Parity SIMM RAM total. (1 available RAM slot.)	\$200.
Opt. ANJ		Configure with 8 Mbytes Parity SIMM RAM total. (1 available RAM slot.)	\$600.
Opt. W04		Convert Warranty. To 1-year return-to-HP from 90-day on-site.	N/C
Storage Bay Two (may select one option)			
Opt. AMR	A2257A	Add Integrated 52 Mbyte SCSI Disk Drive.	\$1,000.
Opt. AMS	A2258A	Add Integrated 200 Mbyte SCSI Disk Drive.	\$2,000.
Opt. AMT	A2259A	Add Integrated 420 Mbyte SCSI Disk Drive.	\$2,500.

Model 362 — HP BASIC/WS Controller Bundle

Product/ Opt. No.	Component	Description	U.S. List Price
A2240A		Model 362 HP BASIC/WS Controller Bundle Model 362 Controller SPU including: MC68030, 25 MHz, 2 Mbytes Parity SIMM RAM Color Graphics Output, 640 x 480 (VGA) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (keyboard cable comes with Localization Kit) Audio interface 1 available DIO I/O slot and 1 available RAM slot. Also includes: 3.5-inch Flexible Disk Drive (in Storage Bay One). 14-inch VGA color monitor.	\$5,490.
	A2252A		
	98616L	HP BASIC/WS License-to-use.	
Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A and localization option).			
Note: Does not include software.			
Opt. AS0	98618B	Add HP BASIC/WS Compiler.	\$595.
Opt. AGU	E2160A	Add HP BASIC Plus. (Need more than 2 megs of RAM)	\$450.
Opt. AJ0	98616B	Add HP BASIC/WS Media and Manuals	\$420.
Opt. AR0	98616BJ	Add HP BASIC/WS KANJI Media and Manuals	\$420.
Opt. ALK	A2256A	Add SCSI Interface. (High density connector with terminator. No cable.)	\$200.
Opt. ALJ	A2255A	Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated).	\$700.
Opt. 8ZF	A2249A	Add MC68882 Math Coprocessor. (Attaches to Processor Board, No DIO slots required)	\$400.
Opt. ANM		Configure with 4 Mbytes Parity SIMM RAM total. (1 available RAM slot.)	\$200.
Opt. ANJ		Configure with 8 Mbytes Parity SIMM RAM total. (1 available RAM slot.)	\$600.
Opt. W04		Convert Warranty. To 1-year return-to-HP from 90-day on-site.	N/C
Storage Bay Two (may select one option)			
Opt. AMR		Add Integrated 52 Mbyte SCSI Disk Drive pre-loaded with HP BASIC/WS.	\$1,000.
Opt. AMS		Add Integrated 200 Mbyte SCSI Disk Drive pre-loaded with HP BASIC/WS.	\$2,000.
Opt. AMT		Add Integrated 420 Mbyte SCSI Disk Drive pre-loaded with HP BASIC/WS.	\$2,500.



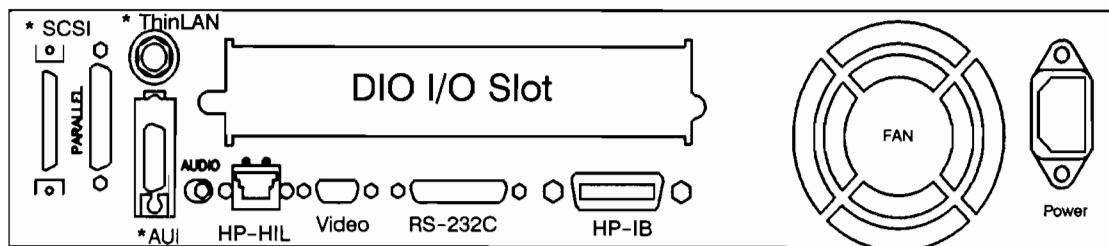
MC68040 CPU at 25 MHz
382 Product Numbers
 A1474A - 382 SPU
 A2241A - 382 HP BASIC/WS
 A2242A - 382 HP BASIC/UX
 A2243A - 382 VEE Test
 A2245A - RMB/UX Kanji
 A2250A - 382 HP-UX

382 Operating System Support
 HP BASIC/WS 6.2 or later
 HP-UX 8.0 or later
 HP BASIC/UX 6.2 or later
 Pascal - 3.2

**Keyboard Localization Kit
 (Must Order Separately)**
 A1099A - HP BASIC/WS and Pascal Keyboard Kit
 A1099B - HP-UX and HP BASIC/UX Keyboard Kit

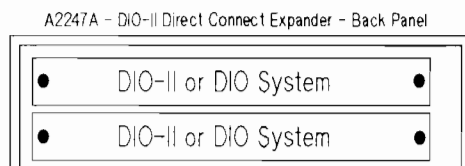
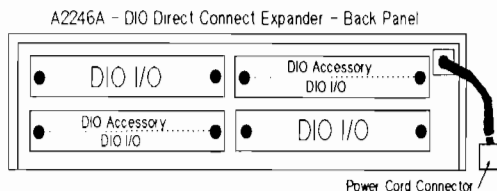
Model 382

Back View



* LAN and SCSI are Optional. High Density SCSI Connector.
 SCSI Connector is HDSL(M).

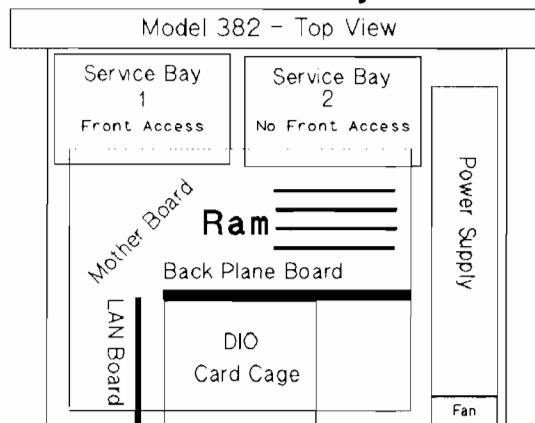
Expanders



Maximum of two expanders per system, any combination.

Per system, one or two DIO-II slots can be converted to DIO I/O slots using the A1401A adapter. The 98242A/B kit is incompatible with the 362 and 382 controllers.

Memory



A2200A - 4 megabyte RAM.
 A2201A - 8 megabyte RAM.
 A2202A - 16 megabyte RAM.
 All RAM is ECC SIMM (Each product occupies 2 slots).
 Configurations of 4, 8, 12, 16, 20, 24 and 32 megabytes are supported.
 RAM doesn't use I/O slots.

Workstations

Model 382 Controller Bundle

Product/ Opt. No.	Component	Description	U.S. List Price
A2250A		Model 382 Controller Bundle Model 382 Controller SPU including: MC68040, 25 MHz 4 Mbytes ECC SIMM RAM Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface HP-UX Run-Time Environment License-to-Use. (Media and manuals not included.) 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: 14-inch VGA color monitor.	\$6,400.
	B1861A #UA1		
		Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A or A1099B and localization option). Note: Does not include software.	
Opt. ADX		Substitute High-resolution Graphics. 1024 x 768 resolution graphics output, 16-inch color monitor and 3m RGB cable for 640 x 480 (VGA) resolution graphics output and 14-inch VGA color monitor.	\$2,500.
Opt. ADJ		Substitute high resolution 1280 x 1024 output, 19" color monitor and 3m RGB cable for 640 x 480 (VGA) res output and 14" VGA color monitor.	\$4,500.
Opt. ANJ		Configure with 8 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.)	\$500.
Opt. ANB		Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.)	\$1,500.
Opt. ALJ	A2255A	Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated).	\$700.
Opt. ALK	A2256A	Add SCSI Interface. (High density connector with terminator. No cable.)	\$200.
Opt. W04		Convert Warranty. To 1-year return-to-HP from 90-day on-site.	N/C
Storage Bay One (may select one option)			
Opt. AMB	A2252A	Add Integrated 3.5-inch Flexible Disk Drive.	\$500.
Opt. AMT	A2259A	Add Integrated 420 Mbyte SCSI Disk Drive.	\$2,500.
Opt. AM8	A2253A	Add CD-ROM Drive. (Includes SCSI interface Option ALK.)	\$1,000.
Opt. AM7	A2254A	Add DDS Drive.	\$2,500.
Storage Bay Two (may select one option)			
Opt. AMR	A2257A	Add Integrated 52 Mbyte SCSI Disk Drive.	\$1,000.
Opt. AM0		Add Integrated 200 Mbyte SCSI Disk Drive pre-loaded with HP-UX	\$2,000.
Opt. AMK		Add Integrated 420 Mbyte SCSI Disk Drive pre-loaded with HP-UX	\$2,575.



Workstations

Model 382 HP BASIC/WS Controller Bundle

Product/ Opt. No.	Component	Description	U.S. List Price
A2241A		High Performance 382 HP BASIC/WS Controller Bundle Model 382 Controller SPU including: MC68040, 25 MHz 4 Mbytes ECC SIMM RAM Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: Integrated 3.5-inch Flexible Disk Drive (in Storage Bay One) 14-inch VGA color monitor. HP BASIC/WS License-to-use.	\$7,525.
	A2252A		
	98616L		
Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A and localization option).			
Note: Does not include software.			
Opt. AS0	98618B	Add HP BASIC/WS Compiler.	\$595.
Opt. AGU	E2160A	Add HP BASIC Plus.	\$400.
Opt. AJ0	98616B	Add HP BASIC/WS Media and Manuals.	\$420.
Opt. AR0	98616BJ	Add HP BASIC KANJI Media and Manuals.	\$420.
Opt. ANJ		Configure with 8 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.)	\$500.
Opt. ANB		Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.)	\$1,500.
Opt. ALJ	A2255A	Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated).	\$700.
Opt. ALK	A2256A	Add SCSI Interface. (High density connector with terminator. No cable.)	\$200.
Opt. W04		Convert Warranty. To 1-year return-to-HP from 90-day on-site.	N/C
Opt. ADX		Substitute Med-resolution 1024 x 768 graphics output, 16-inch color monitor and 3m RGB cable for 640 x 480 (VGA) resolution output and 14-inch VGA color monitor.	\$2,500.
Opt. ADJ		Substitute High Resolution 1280 x 1024 output, 19" color monitor and 3m RGB cable for 640 x 480 (VGA) res output and 14" VGA color monitor. Only available w/RMB/WS 6.21.	\$4,500.
Storage Bay Two (may select one option)			
Opt. AMR	A2257A	Add Integrated 52 Mbyte SCSI Disk Drive pre-loaded with HP BASIC/WS.	\$1,000.
Opt. AMS	A2258A	Add Integrated 200 Mbyte SCSI Disk Drive. pre-loaded with HP BASIC/WS.	\$2,000.
Opt. AMT	A2259A	Add Integrated 420 Mbyte SCSI Disk Drive. pre-loaded with HP BASIC/WS.	\$2,500.

Model 382 — HP BASIC/UX Workstation Controller Bundles

Product/ Opt. No.	Component	Description	U.S. List Price
A2242A		Model 382 HP BASIC/UX Controller Model 382 Controller SPU including: MC68040, 25 MHz Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: Configure with 8 Mbytes ECC SIMM RAM total (1 available RAM slot.). 14-inch VGA color monitor and attached RGB cable.	\$8,800.
	A2255A	Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated).	
	B1861A#UA1	HP-UX License-to-use.	
	E2040L	HP BASIC/UX License-to-use.	
Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099B and localization option).			
Note: Does not include software.			

Workstations

Model 382 — HP BASIC/UX Workstation Controller Bundles (continued)

Product/ Opt. No.	Component	Description	U.S. List Price
Opt. ANB		Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.)	\$1,000.
Opt. ALK	A2256A	Add SCSI Interface. (High density connector with terminator. No cable.)	\$200.
Opt. ADX		Substitute Med-resolution 1024 x 768 graphics output, 16-inch color monitor and 3m RGB cable for 640 x 480 (VGA) resolution output and 14-inch VGA color monitor.	\$2,500.
Opt. ADJ		Substitute High-resolution 1280 x 1024 output 19" color monitor and 3m RGB Cable for 640 x 480 (VGA) res output and 14 " VGA color monitor.	\$4,500.
Must specify one media option.			
Opt. AJ0	E2040A	Add HP BASIC/UX Media and Manuals. (1/4 inch tape)	\$420.
Opt. AAF		HP BASIC/UX Media and Manuals (CD-ROM)	
Opt. AAH		HP BASIC/UX Media and Manuals (DDS Tape)	
Opt. AGU	E2160A	Add HP BASIC Plus (Includes Media and Manuals)	\$400.
Opt. W04		Convert Warranty. To 1-year return-to-HP from 90-day on-site.	N/C
Storage Bay One (may select one option)			
Opt. AMB	A2252A	Add Integrated 3.5-inch Flexible Disk Drive.	\$500.
Opt. AM8	A2253A	Add CD-ROM Drive. (includes SCSI Interface, option ALK)	\$1,000.
Opt. AM7	A2254A	Add DDS Drive.	\$2,500.
Storage Bay Two (may select one option)			
Opt. AM0		Add Integrated 210 Mbyte SCSI Disk Drive pre-loaded with HP-UX and HP BASIC/UX.	\$2,000.
Opt. AMK		Add Integrated 420 Mbyte SCSI Disk Drive pre-loaded with HP-UX and HP BASIC/UX.	\$2,575.
A2245A		HP BASIC/UX Kanji Controller Bundle Model 382 Controller SPU including: MC68040, 25 MHz Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Built-in speaker and audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: Configure with 8 Mbytes ECC SIMM RAM (1 available RAM slot available) Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated).	Available in Japan only
	A2255A		
	Opt. ADX	1024 x 768 resolution graphics output, 16-inch color monitor and 3m RGB cable. 400 Mbyte SCSI disk pre-loaded with HP BASIC/UX.	
	B2386A	HP-UX License-to-use (KANJI Version).	
	E2040LJ	HP BASIC/UX License-to-use (KANJI Version).	
	YS-90111L	Add EG CONVERT License-to-use .	
Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099B and localization option).			
Note: Does not include software.			
Opt. ANB		Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.)	
Must specify one media option.			
Opt. AAF		HP BASIC/UX Media and Manuals (CD-ROM)	
Opt. AJ0	E2040AJ	Add HP BASIC/UX Media and Manuals.	
Opt. AGU	E2160AJ	Add HP BASIC Plus.	
Opt. ALK	A2256A	Add SCSI Interface. (High density connector with terminator. No cable.)	
Opt. ADJ		Substitute High-resolution 1280 x 1024 output 19" color monitor and 3m RGB Cable for 1024 x 768 (VGA) medium res output and 16 " color monitor.	
Storage Bay Options (may choose one option)			
Opt. AMB	A2252A	Add 3.5-inch Flexible Disk Drive.	
Opt. AMT	A2259A	Add 420 Mbyte SCSI Disk Drive.	
Opt. AM8	A2253A	Add CD-ROM Drive. (includes SCSI Interface, option ALIC)	
Opt. AM7	A2254A	Add DDS Drive.	

Workstations

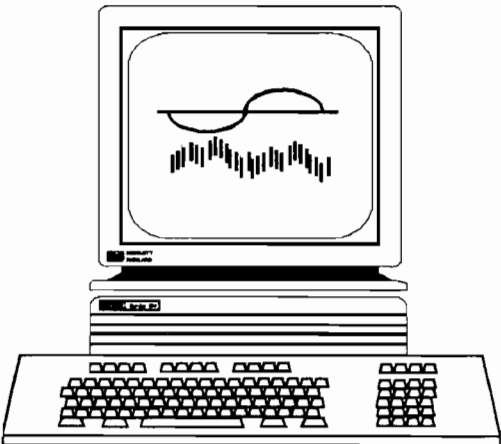
Model 382 — VEE-Test Bundle

Product/ Opt. No.	Component	Description	U.S. List Price
A2243A		Model 382 HP VEE-Test Bundle Model 382 Controller SPU MC68040, 25 MHz Color Graphics Output, 1024 x 768 resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). SCSI Interface. (High density connector with terminator. No cable.) 16-inch 1024 x 768 color monitor and 3m RGB cable. HP-UX License-to-use. (HP-UX Media and Manuals not included) HP VEE-Test License-to-use.	\$16,200.
	A2255A		
	A2256A		
	B1861A # UA1		
	E2110A		
Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099B and localization option).			
Note: Does not include software.			
May specify one media option (maximum).			
Opt. AJ0		HP VEE-Test Media and Manuals. (1/4" Tape)	\$100.
Opt. AAF		HP VEE-Test Media and Manuals (CD-ROM)	\$100.
Opt. AAH		HP VEE-Test Media and Manuals (DDS Tape)	\$100.
Opt. ANC		Configure with 32 Mbytes ECC SIMM RAM total. (No available RAM slots.)	\$2,000.
Storage Bay One (may select one option)			
Opt. AM8	A2253A	Add CD-ROM drive. (In Storage Bay one.)	\$1,000.
Opt. AM7	A2254A	Add DDS Drive.	\$2,500.
Note: For 3.5" Floppy must order A2252A			
Opt. W04		Convert Warranty. To 1-year return-to-HP from 90-day on-site.	N/C
Opt. ADJ		Substitute High -resolution 1280 x 1024 output 19" color monitor and 3m RGB Cable for 1024 x 768 medium res output and 16 " color monitor.	\$2,000.
Storage Bay Two (may select one option)			
Opt. AM0		Add 200 Mbyte SCSI Disk Drive pre-loaded with HP-UX and HP VEE.	\$2,000.
Opt. AMK		Add 420 Mbyte SCSI Disk Drive pre-loaded with HP-UX and HP VEE.	\$2,575.

Workstations

Model 362 — System Processing Unit

Product/ Opt. No.	Component	Description	U.S. List Price
A1473A		Model 362 Controller SPU MC68030, 25 MHz 2 Mbytes ECC SIMM RAM Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (no cable) RS-232C Serial Interface (no cable) HP Parallel Printer Interface (no cable) HP-HIL Interface (keyboard cable comes with Localization Kit) Built-in speaker and audio interface 1 available DIO I/O slot and 1 available pair of RAM slots.	\$4,440.
		Note: Does not include software.	
		Note: Monitor must be ordered separately (P/N D1194A).	
		Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A or A1099B and localization option).	
Opt. ALK	A2256A	Add SCSI Interface. (High density connector with terminator. No cable.)	\$200.
Opt. ALJ	A2255A	Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated).	\$700.
Opt. 8ZF	A2249A	Add MC68882 Math Coprocessor. (Attaches to Processor Board, No DIO slots required.)	\$400.
Opt. ANM		Configure with 4 Mbytes Parity SIMM RAM total. (1 available of RAM slots.)	\$200.
Opt. ANJ		Configure with 8 Mbytes Parity SIMM RAM total. (1 available of RAM slots.)	\$600.
Opt. W04		Convert Warranty. To 1-year return-to-HP from 90-day on-site.	N/C
		Storage Bay One (may select one option)	
Opt. AM8	A2252A	Add Integrated 3.5-inch flexible Disk Drive	\$500.
		Storage Bay Two (may select one option)	
Opt. AMR	A2257A	Add Integrated 52 Mbyte SCSI Disk Drive.	\$1,000.
Opt. AMS	A2258A	Add Integrated 210 Mbyte SCSI Disk Drive.	\$2,000.
Opt. AMT	A2259A	Add Integrated 420 Mbyte SCSI Disk Drive.	\$2,500.



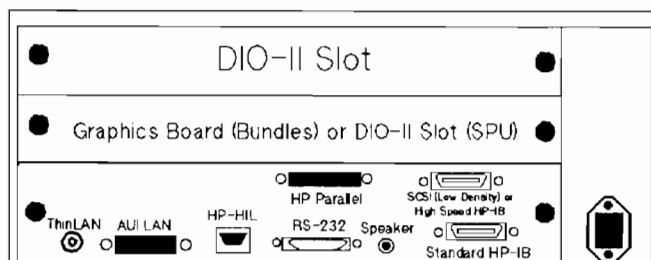
MC68040 CPU at 25 MHz

380 Product Numbers
A1458A - 380 SPU
A1480A - 380 C+
A1481A - 380 CH

380 Operating System Support
HP BASIC/WS 6.2 or later
HP-UX 7.05 or later
HP BASIC/UX 5.52 or later
Pascal - Future Revision

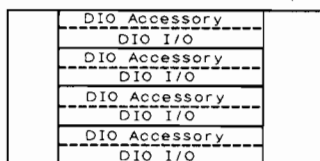
Model 380

Back View

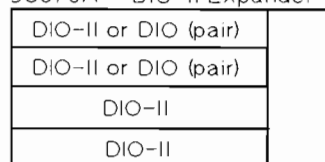


Expanders

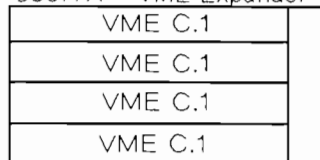
98568A - DIO 8-slot I/O Expander



98570A - DIO-II Expander



98577A - VME Expander

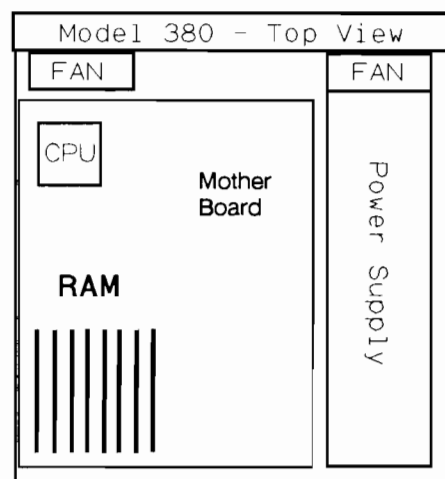


The following pairs of expanders are supported:
98568A and 98568A opt 132
98568A opt 132 and 98570A
98570A and 98570A
98577A and 98570A

Each expander, except 98568A without option 132, is supported individually.

The 98570A is supported with or without option 004.

Memory



98229A - 4 megabyte ECC RAM.
98229B - 8 megabyte ECC RAM.
98229S - 16 megabyte ECC RAM.
98229E - 32 megabyte ECC RAM.
All RAM is Parity SIMM (Each product occupies two slots. Four products per controller.)

Workstations

Model 380 — System Processing Unit

Product/ Opt. No.	Component	Description	U.S. List Price
A1458A		380 SPU Model 380 SPU which includes: MC68040, 25 Mhz 8 Mbytes ECC RAM, Expandable to 128 Mbytes 4 Gbytes virtual memory address space 64-bit memory bus IEEE-488 HP-IB I/F SCSI I/F w/1m cable and terminator RS-232C serial I/F w/9-pin male connector (cable not included) IEEE 802.3/Ethernet LAN I/F w/ThinMAU and BNC "T" connector and AUI (jumper selectable, preset to ThinLAN) HP-HIL I/F (keyboard cable comes with Localization Kit) HP Parallel Printer I/F (no cable) (HP-UX 7.05 includes SW driver) 2 channel DMA controller Built-in speaker and audio I/F (jack) HP-UX License-to-use	\$16,395.
		Note: Two out of four DIO-II slots available.	
		Note: For KEYBOARD, MOUSE and POWER CORD, Must order Localization Kit (P/N A1099A/B and localization option).	
		Note: Does not include software.	

Model 380 — Color Graphics Bundles

Product/ Opt. No.	Component	Description	U.S. List Price
A1480A		380C+ 2D Color Workstation Model 380 SPU and common components plus: 16 Mbytes of ECC RAM Total (4 Mbit DRAMs) High-resolution 6-plane color graphics board (1024x768) 16-inch Color Monitor (1024x768)	\$22,395.
	98549A		
	98785A		
		Note: One out of four DIO-II slots available.	
		Note: Does not include software.	
Opt. 719	98753A	Substitute 19-inch color monitor for 16-inch color monitor (98785A)	\$2,000.
A1481A		380CH 2D Color Workstation Model 380 SPU and common components plus: 16 Mbytes of ECC RAM Total (4 Mbit DRAMs) CH color graphics I/F (1280x1024, 8+2 planes) 16-inch color monitor (1280x1024)	\$23,395.
	A1416A		
	98789A		
		Note: One out of four DIO-II slots available.	
		Note: Does not include software.	
Opt. 719	98754A	Substitute 19-inch color monitor for 16-inch color monitor (98789A)	\$2,000.

Workstations

Model 382 — System Processing Unit

Product/ Opt. No.	Component	Description	U.S. List Price
A1474A		Model 382 Controller SPU MC68040, 25 MHz 4 Mbytes ECC SIMM RAM Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Built-in speaker and audio interface HP-UX Run-Time Environment License to Use 1 available DIO I/O slot and 1 available pair of RAM slots.	\$6,050.
		Note: Monitor must be ordered separately (P/N D1194A).	
		Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A or A1099B and localization option).	
		Note: Does not include software.	
Opt. ANJ		Configure with 8 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.)	\$500.
Opt. ANB		Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.)	\$1,500.
Opt. ALJ	A2255A	Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated).	\$700.
Opt. ALK	A2256A	Add SCSI Interface. (High density connector with terminator. No cable.)	\$200.
Opt. W04		Convert Warranty. To 1-year return-to-HP from 90-day on-site.	N/C
		Storage Bay One (may select one option)	
Opt. AM8	A2253A	Add CD-ROM Drive. (includes SCSI interface option ALK)	\$1,000.
Opt. AMT	A2259A	Add Integrated 420 Mbyte SCSI Disk Drive.	\$2,500.
		Storage Bay Two (may select one option)	
Opt. AM0		Add Integrated 210 Mbyte SCSI Disk Drive pre-loaded with HP-UX	\$2,000.
Opt. AMK		Add Integrated 420 Mbyte SCSI Disk Drive pre-loaded with HP-UX.	\$2,575.

382 Upgrade

Product/ Opt. No.	Component	Description	U.S. List Price
A2244A		Model 310/320/332 SPU Field Upgrade Kit to 382 MC68040 at 25 MHz. Includes: 8 Mbytes ECC SIMM RAM Color Graphics Output, 640 x 480 (VGA) Resolution 14-inch 640 x 480 (VGA) Resolution Monitor Standard: HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP-HIL Interface (must order keyboard separately) HP-UX 2 user License-to-Use	\$6,500.
Opt. ADY		Delete VGA Monitor. (Can not be ordered with Opt ADX)	-\$400.
Opt. ADX		Substitute 1024x768 Graphic System for 640x480 Graphics System. Includes: 16" Color Monitor (Can not be ordered with Opt ADY)	\$2,500.
Opt. 200		Return Credit for 310 or 320 CPU Board and Monitor.	-\$1,000.
Opt. 201		Return Credit for 332 CPU Board and Monitor.	-\$1,500.

375 Upgrade

Product/ Opt. No.	Component	Description	U.S. List Price
98244E		375 Upgrade 68040 Kit for transforming a 375 68030 to 380 68040. Includes HP-UX 8.0 License-to-Use. Requires return of 030 processor board.	\$2,000.
		Note: Recommended Disk Interface: 98625B High speed HP-IB, 98658A SCSI.	

Workstations

380 Upgrade

Product/ Opt. No.	Component	Description	U. S. List Price
98244D		Field Upgrade for Model 330/350/360/370 to Model 380. An upgrade to provide MC68040 performance at 25 MHz.	\$10,995.
Note: Comes standard with SCSI, must order Opt. ALB to get high-speed HP-IB disk interface.			
Must specify this option:			
Opt. 8ZC		Model 380 with MC68040, 25 MHz	N/C
Return credits (must order one):			
Opt. OGS		Credit for returned Models 360/370 CPU Board and System Interface Board	-\$4,000.
Opt. OGT		Credit for returned Models 330/350 CPU Board and System Interface Board	-\$2,000.
Options:			
Opt. ALB		Substitute high-speed HP-IB (w/ cable) for SCSI	N/C
Opt. AN1		Convert original 8 Mbytes RAM to 32 Mbytes RAM (4 Mbit DRAMS)	\$3,600.
Opt. AN4		Add 8 Mbytes of ECC RAM (1 Mbit DRAMS) (may specify 3)	\$1,200.
Opt. AN6		Add 32 Mbytes of ECC RAM (4 Mbit DRAMS)	\$4,800.
Opt. AAR		HP-UX 8.0 Update Media and Manuals	\$595.
Note: HP-UX 8.0 does not include programming documentation.			

Trade up Program

All Series 300 Systems are eligible to take advantage of HP's trade-up programs. Customers can trade-up to 030 or 040 performance. For more information see the HP Apollo

Trade-up Program sales guide
P/N 5091-2883EUS or the HP
Series 300 Trade-up Now
Promotion sales guide
P/N 5091-3796EUS.

Notes:

Integrated Controllers

Fully Integrated R/362 and R/382 Controllers

For test systems that require integrated controllers, Hewlett-Packard offers the HP 9000 Series 300 Models R/362, R/382 and R/382U. These complete, rugged, fully integrated controllers provide the power of the 362 and 382 while integrating the display, keyboard, flexible disk, internal hard disk and interfaces into a complete, compact package that rack-mounts into 7-inches of rack space.

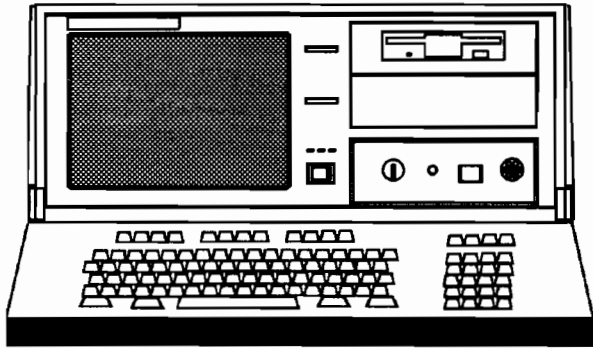
The R/362 is configured for HP BASIC/WS test system applications. The R/382 is configured for HP BASIC/WS applications that require a higher performance SPU for data analysis. And the R/382U is configured for HP-UX applications written in HP BASIC/UX or C. These controllers come with their operating systems and languages preinstalled on their hard disks and can be up and running in minutes.

	R 362	R 382	R 382U
Standard	Display and Keyboard	Display and Keyboard	Display and Keyboard
Optional	Touchscreen	Touchscreen	Touchscreen
SPU (25 MHz)	MC68030, 6 MIPS	MC68040, 22 MIPS Coprocessor	MC68040, 22 MIPS Coprocessor
Optional	Coprocessor		
RAM*			
	Parity SIMM	ECC SIMM	ECC SIMM
Standard	2 MB	4 MB	8 MB
Optional	4 MB 8 MB	8 MB 16 MB	16 MB 32 MB
Maximum	16 MB	32 MB	32 MB
Mass Storage			
Standard	3 1/2 inch Floppy 52 MB Hard Disk	3 1/2 inch Floppy 52 MB Hard Disk	420 MB Hard Disk
Optional	420 MB Hard Disk	420 MB Hard Disk	3 1/2 inch Floppy
Operating System**			
	HP BASIC/WS 6.2	HP BASIC/WS 6.2	HP-UX 8.0
Languages**			
	HP BASIC/WS 6.2	HP BASIC/WS 6.2	HP BASIC/UX 6.2
Optional	HP BASIC Plus HP BASIC Compiler	HP BASIC Plus HP BASIC Compiler	HP BASIC Plus
Interfaces			
Standard	HP-IB (IEEE 488) RS-232C HP-HIL Ext. Display Ext. Audio HP Parallel	HP-IB (IEEE 488) RS-232C HP-HIL Ext. Display Ext. Audio HP Parallel	HP-IB (IEEE 488) RS-232C HP-HIL Ext. Display Ext. Audio HP Parallel LAN
Optional	LAN Ext. SCSI	LAN Ext. SCSI	Ext. SCSI
Expansion Slots	4 DIO I/O 1 DIO Accessory	4 DIO I/O 1 DIO Accessory	4 DIO I/O 1 DIO Accessory

* There are two types of SIMM (Single Inline Memory Modules) RAM. The parity SIMMs used in the R/362 are available in 2 MB, 4 MB and 8 MB sizes and one or two modules can be installed.

The higher performance R/382 and R/382U use ECC (Error Checking and Correcting) RAM in SIMM-pairs. They are referred to as "pairs" because for a particular SIMM-pair size, they are actually two independent modules that must be installed together. ECC SIMM-pairs are available in 4 MB, 8 MB and 16 MB sizes and one or two SIMM-pairs can be installed.

** Operating Systems and languages are pre-installed on the hard disks unless the delete option for the hard disk is chosen.

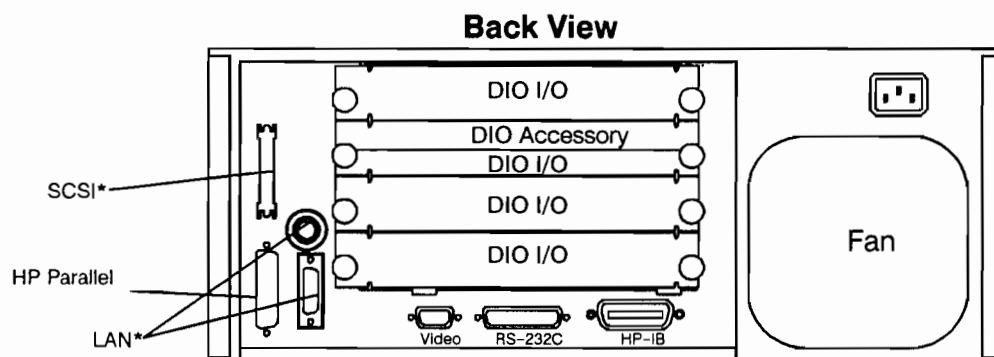


MC68030 CPU at 25 MHz

R/362 Product Numbers
A1314A - R/362 HP BASIC/WS

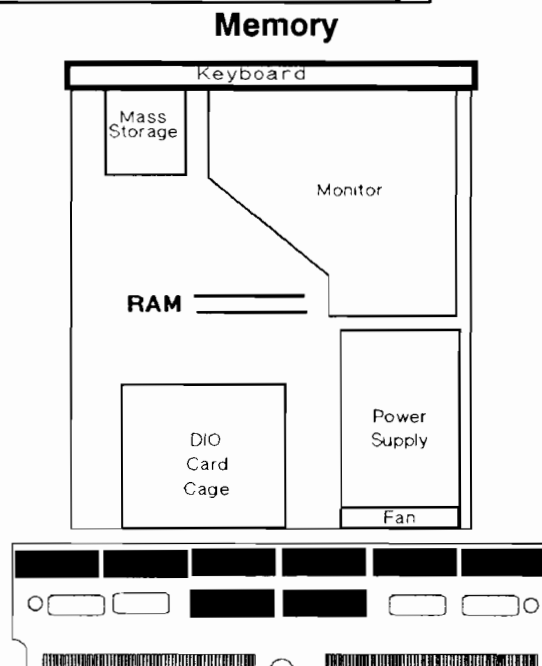
R/362 Operating System Support
HP BASIC/WS 6.2 or later
Pascal - Future Revision

Model
R/362



* LAN and SCSI are Optional.

Rack Mounting	
A1309A	Rack-mounting flange kit. Contains two metal flanges and mounting screws.
E3663A	Stationary rails for E366x racks.
12679B	Stationary rails for non-E366x racks.
1494-0059	Standard slide kit.
1494-0063	Standard tilting slide kit.



D2381A - 2 megabyte RAM.
D2156A - 4 megabyte RAM.
D2152A - 8 megabyte RAM.
Configurations of 2, 4, 6, 8, 10, 12, and 16 megabytes are supported. RAM doesn't use I/O slots. RAM boards are double-sided and keyed. All RAM is Parity SIMM (Each product occupies one slot).

Integrated Controllers

R/362 HP BASIC/WS Integrated Controller

Product/ Opt. No.	Component	Description	U.S. List Price
A1314A	98616B/L	Model R/362 HP BASIC/WS Integrated Controller - Rackmountable in 7 inches of rack space 362 25MHz MC68030 Processor 2 Mb Parity SIMM RAM, expandable to 16 Mb Parity SIMM RAM 9 inch Internal Greyscale Display (640 x 480) 3.5 inch SCSI Floppy Drive 52 Mb SCSI Internal Disk preloaded with HP BASIC/WS HP BASIC Language 6.2 preinstalled as well as separate 3.5 inch and License-to-Use Double Sided media, one manual set and HP BASIC/WS license to use. Attached ITF Keyboard 4 DIO I/O; 1 DIO Accessory I/O Slots HP-IB, RS-232, HP-HIL and Parallel Interfaces Built-in Speaker and Audio Output Connector External VGA Color Display Output Connector (640 x 480)	\$9,990.
MUST Specify one localization option:			
Opt. ABA		English manuals/U.S. keyboard/110v	N/C
Opt. ABU		English manuals/UK keyboard/220v	N/C
Opt. ABD		German manuals/German keyboard/220v	N/C
Opt. ABF		French manuals/French keyboard/220v	N/C
Opt. ABJ		Japanese manuals/Katakana keyboard	N/C
Opt. ABK		English manuals/U.S. keyboard/220v	N/C
May Specify:			
Opt. 1BS		Add touchscreen	\$675.
Opt. ALK		Add SCSI Interface (external)	\$200.
Opt. AS0	98618B	Add HP BASIC/WS Compiler	\$595.
Opt. AGU	E2160A	Add HP BASIC/WS Plus	\$400.
Opt. 8ZF	98284A	Add MC68882 Floating Point Coprocessor	\$400.
Opt. ALJ		Add IEEE 802.3/Ethernet AUI and BNC LAN Interface	\$700.
Opt. 908	A1309A	Rackmount kit (rails ordered separately)	\$65.
Opt. ANM	D2156A	Substitute total 4 Mb RAM for 2 Mb	\$300.
Opt. ANJ	D2152A	Substitute total 8 Mb RAM for 2 Mb	\$900.
Opt. AMU		Substitute 400 Mb Internal Disk for 52 Mb	\$2500.
Opt. SWJ		Substitute Kanji HP BASIC	N/C
Opt. W03		Substitute 90 day on site for 1 year warranty	N/C
Opt. 1AW		Delete HP BASIC Media and Documentation	-\$350.
Opt. AMD		Delete Internal 52 Mb Preloaded Disk	-\$1000.

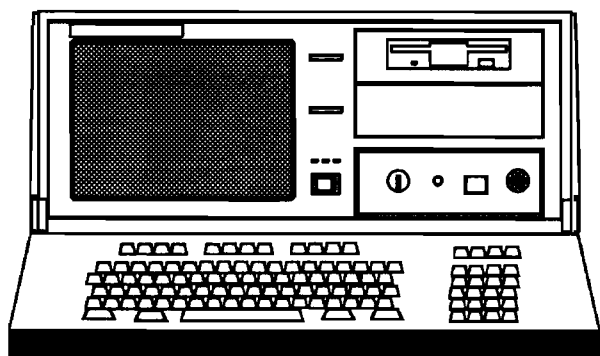




Integrated Controllers

R/382 HP BASIC/WS Integrated Controller

Product/ Opt. No.	Component	Description	U.S. List Price
A1319A		Model R/382 HP BASIC/WS Integrated Controller - Rackmountable in 7 inches of rack space 382 25MHz MC68040 Processor 4 Mb ECC SIMM RAM 9 inch Internal Greyscale Display (640 x 480) 3.5 inch SCSI Floppy 52 Mb SCSI Internal Disk preloaded with HP BASIC/WS HP BASIC/WS Language 6.2 preinstalled as well as separate 3.5 inch and License-to-Use Double Sided media, one manual set and HP BASIC/WS license to use. Attached ITF Keyboard 4 DIO I/O; 1 DIO Accessory I/O Slots HP-IB, RS-232, HP-HIL and Parallel Interfaces Built-in speaker and Audio Output Connector External VGA Color Display Output Connector (640 x 480)	\$11,990.
	98616B/L		
MUST Specify one localization option:			
Opt. ABA		English manuals/U.S. keyboard/110v	N/C
Opt. ABU		English manuals/UK keyboard/220v	N/C
Opt. ABD		German manuals/ German keyboard/220v	N/C
Opt. ABF		French manuals/French keyboard/220v	N/C
Opt. ABJ		Japanese manuals/Katakana keyboard	N/C
Opt. ABK		English manuals/U.S. keyboard/220v	N/C
May Specify :			
Opt. 1BS		Add Touchscreen	\$675.
Opt. ALK		Add SCSI Interface (external)	\$200.
Opt. AS0	98618B	Add HP BASIC/WS Compiler	\$595.
Opt. AGU	E2160A	Add HP BASIC Plus	\$400.
Opt. 908	A1309A	Rackmount kit (rails ordered separately)	\$65.
Opt. ALJ		Add IEEE 802.3/Ethernet AUI and BNC LAN Interface	\$700.
Opt. ANJ	A2201A	Substitute total 8 Mb RAM for 4 Mb	\$1,000.
Opt. ANB	A2202A	Substitute total 16 Mb RAM for 4 Mb	\$3,000.
Opt. AMU		Substitute 400 Mb Internal Disk for 52 Mb	\$2,500.
Opt. SWJ		Substitute Kanji HP BASIC/WS	N/C
Opt. W03		Substitute 90 day on site for 1 year warranty	N/C
Opt. 1AW		Delete HP BASIC/WS Media and Documentation	-\$350.
Opt. AMD		Delete Internal Preloaded Disk	-\$1,000.



MC68040 CPU at 25 MHz

R/382 Product Numbers

A1319A - R/382 HP BASIC/WS
A1324A - R/382U HP BASIC/UX

**Model
R/382
R/382U**

R/382 Operating System Support

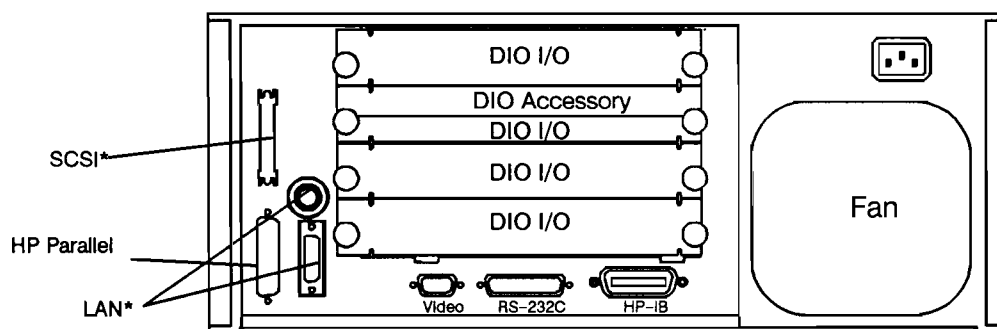
HP BASIC/WS 6.2 or later

HP-UX 8.0 or later

HP BASIC/UX 6.2 or later

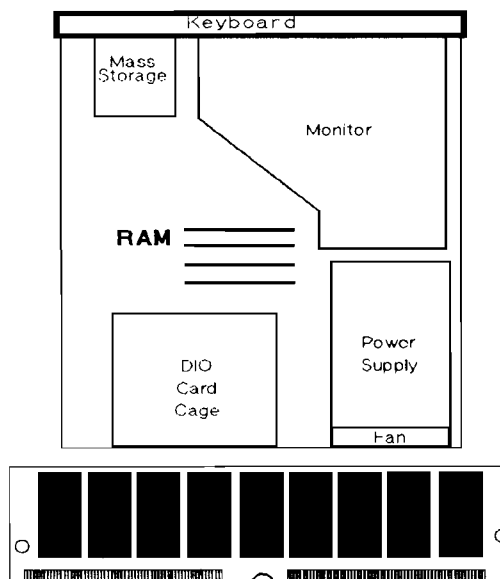
Pascal - Future Revision

Back View



* LAN and SCSI are Optional.

Memory



Rack Mounting

A1309A	Rack-mounting flange kit. Contains two metal flanges and mounting screws.
E3663A	Stationary rails for E366x racks.
12679B	Stationary rails for non-E366x racks.
1494-0059	Standard slide kit.
1494-0063	Standard tilting slide kit.

A2200A - 4 megabyte RAM.
A2201A - 8 megabyte RAM.
A2202A - 16 megabyte RAM.
RAM is ECC SIMM (Each product occupies two slots).
Configurations of 4, 8, 12, 16, 24 and 32 megabytes are supported.

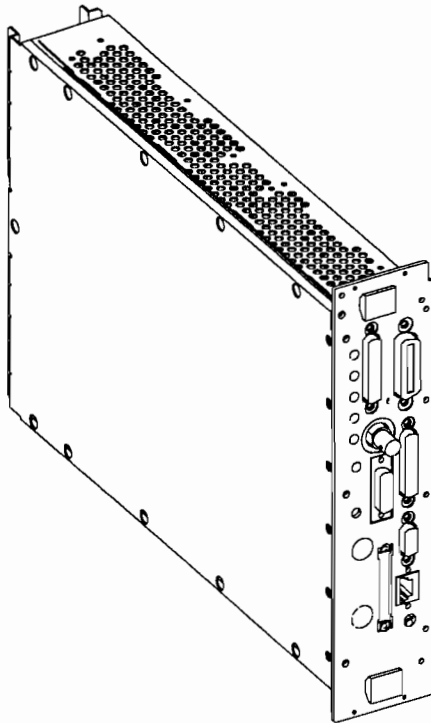
Integrated Controllers

R/382U HP BASIC/UX Integrated Controller

Product/ Opt. No.	Component	Description	U.S. List Price
A1324A		Model R/382U HP BASIC/UX Integrated Controller - Rackmountable in 7 inches rack space 382 25MHz MC68040 processor 8 Mb ECC SIMM RAM 9 inch Internal Greyscale Display (640 x 480) 400 Mb SCSI Internal Disk preloaded with HP BASIC/UX HP BASIC/UX 6.2 Media. HP BASIC/UX 6.2 Media License-to-Use. HP-UX 8.0 Media and License-to-Use. 4 DIO I/O; 1 DIO Accessory I/O Slots Attached ITF Keyboard HP-IB, RS-232, HP-HIL and Parallel Interfaces IEEE 802.3/Ethernet AUI and BNC LAN Interface Built in speaker and Audio Output Connector External VGA Color Display Output Connector (640 x 480)	\$16,990.
	E2040A#AAH E2040L B1861A		
MUST Specify one localization option:			
Opt. ABA		English manuals/U.S. keyboard/110v	N/C
Opt. ABU		English manuals/UK keyboard/220v	N/C
Opt. ABD		German Manuals/German keyboard/220v	N/C
Opt. ABF		French Manuals/Katakana keyboard/220v	N/C
Opt. ABJ		Japanese manuals/Katakana keyboard	N/C
Opt. ABK		English manuals/U.S. keyboard/220v	N/C
May Specify:			
Opt. 1BS		Add Touchscreen	\$675.
Opt. ALK		Add SCSI Interface (external)	\$200.
Opt. AGU	E2160A	Add HP BASIC Plus	\$400.
Opt. AMB		Add 3.5 inch SCSI Floppy	\$600.
Opt. 908	A1309A	Rackmount kit (rails ordered separately)	\$65.
Opt. ANB	A2202A	Substitute total 16 Mb RAM for 8 Mb (One set of A2202A factory installed)	\$2,000.
Opt. ANC	A2202A	Substitute total 32 Mb RAM for 8 Mb (Two sets of A2202A factory installed)	\$6,000.
Opt. W03		Substitute 90 day on site for 1 year warranty	N/C
Opt. 1AW		Delete HP BASIC/UX Media and Documentation	-\$350.
Opt. AMD		Delete Internal Preloaded Disk	-\$3,000.

Notes:

Model V382



MC68040 CPU at 25 MHz

V382 Product Numbers

HP E1499A V/382 Controller

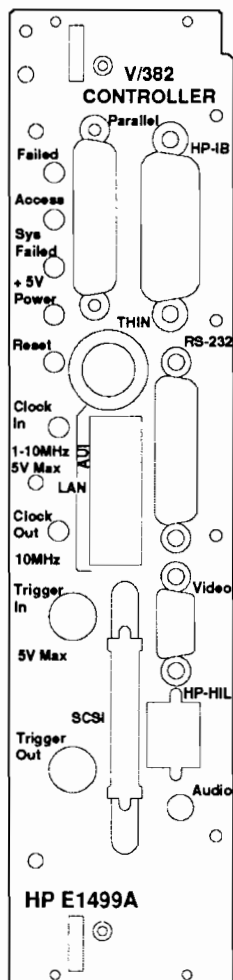
V3282 Operating System Support

HP-UX 8.0

VXI Crate

HP E1401A VXI Card Cage

Front Detail



Graphics Options

Standard: 640x480 Color Graphics with
14-inch VGA monitor

#ADY: Delete Standard VGA monitor

#ADX: Add 1024x768 Graphics with a
16-inch Color monitor.

#ADJ: Add 1280x1024 Graphics with a
19-inch Color monitor

RAM Options

Standard: 8 MB ECC RAM

#ANB: Configure with 16MB Total System RAM

#ANC: Configure with 32MB Total System RAM

Integrated Controllers

Embedded VXI

Product/ Opt. No.	Component	Description	U.S. List Price
E1499A		V/382 Controller Embedded VXI Controller including: MC68040 25MHz processor 640 x 480 Color Graphics w/ 14" VGA 8 Mbytes ECC RAM HP-IB LAN-ThinLAN connector activated HP-HIL, Audio, SCSI interfaces VXI slot 0 board HP-UX license-to-use SICL license-to-use	\$13,300.
	D1194A		
	B1861A#UA1		
Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A and localization option).			
Note: Does not include software.			
Note: License-to use VXI software drivers is included with V/382 (E1499A) controller			
Opt. AL9		Preset LAN to activate the AUI connector	N/C
Opt. 100		Substitute monitor adjust for Southern Hemisphere	N/C
May order one graphics option:			
Opt. ADY		Delete Standard VGA monitor	-\$400.
Opt. ADX		Substitute 1024 x 768 med. res. graphics 16" color monitor in place of standard graphics.	\$2,500.
Opt. ADJ		Substitute 1280 x 1024 high res. graphics with 19" color monitor in place of standard graphics.	\$4,500.
May choose one RAM option:			
Opt. ANB		Configure with 16 Mbytes total RAM	\$1,000.
Opt. ANC		Configure with 32 Mbytes total RAM	\$3,000.
E2092A		V/382 SICL C-Language Application Development Library Media and Documentation	\$500.
Must Specify one media option:			
Opt. AAO		1/4" cartridge tape	N/C
Opt. AAF		CD-ROM	N/C
Opt. AAH		DDS tape	N/C
E1481A		VXI Media and Documentation for V/382 BASIC/WS LTU is included with V/382 hardware	\$500.
Note: V/382 VXI Software for BASIC/UX is not available			

Notes:

Quality, Reliability and Environmental Information

Technical Specifications

	Model 380	Model 362	Model 382	Model R/362	Model R/382	Model V/382
System Electrical Specifications						
Power Availability						
Power Supply Max	150 Watts	100 Watts	100 Watts	200 Watts	200 Watts	
at +5 volts	20 Amps	13 Amps	13 Amps	19 Amps	19 Amps	
at +12 volts	3.6 Amps	2.6 Amps	2.6 Amps	8 Amps	8 Amps	
at -12 volts	1.1 Amps	.25 Amps	.25 Amps	1.5 Amps	1.5 Amps	
Line Frequency	48-66 Hz	47-66 Hz	47-66 Hz	45-66 Hz	45-66 Hz	
Max Power Consumption	250 Watts/853 BTU hr.	155 Watts/530 BTU hr.	155 Watts/530 BTU hr.	320 Watts/1092 BTU hr.	320 Watts/1092 BTU hr.	
Source Power Consumption	4 Amps @ 120V 3 Amps @ 240V	1.3 Amps @ 120V .65 Amps @ 240V	1.3 Amps @ 120V .65 Amps @ 240V	6 Amps @ 110V 3 Amps @ 230V	6 Amps @ 110V 3 Amps @ 230V	
System Environmental Characteristics						
Temperature Operational/Non-Operational	All models: 0 to +55 C/-40 to +70C					
Humidity Operational	All models: 15% to 95% R.H.					
Max. Alt Oper/Non-Oper.	All models: w/o disk - 4,570/15,240m; w/internal disk - 3,050/15,240m					
System Regulatory Compliance						
VDE Level	B	B	B	B	B	B
FCC Class	A	A	A	B	B	A
VCCI Class	1	1	1	1	1	1
Safety	UL, CSA, IEC	UL, CSA, IEC	UL, CSA, IEC	CSA, IEC	CSA, IEC	UL, CSA, IEC, CISPR 22
System Physical Characteristics						
Height	130 mm (5.12")	89 mm (3.5") w/o feet	89 mm (3.5") w/o feet	189 mm (7.5")	189 mm (7.5")	259 mm (10.2")
Width	325 mm (12.8")	427 mm (16.8")	427 mm (16.8")	440 mm (17.3")	440 mm (17.3")	61 mm (2.38")
Depth*	376 mm (14.8")	444 mm (17.5")	444 mm (17.5")	704 mm (27.7")	704 mm (27.7")	375 mm (14.75")
Weight	11.8 kg (26 lbs.)	10.9 kg (24 lbs.) w/disk	10.9 kg (24 lbs.) w/disk	18 kg (40 lbs.)	18 kg (40 lbs.)	3.6 kg (8 lbs.)
* Note: and additional 4 " should be allowed for interface cables						
Real-time Clock						
Resolution	All models: 10 milliseconds					
Accuracy	All models: +5 seconds/day					
Battery Backup	All models: Lithium, 1 yr. life expectancy					
Timers						
Match Interrupt	All models: Match on time of day 0.00 to 84600.00 seconds					
Delay Interrupt	All models: 10 milliseconds to 1.94 days					
Cyclical Interrupt	All models: 10 milliseconds to 1.94 days					
System Timer	All models: 4 microseconds resolution accurate to 25 ppm					
Audio						
Audio	All models: Three independent tone generators controllable over 30 db.					
Frequency	All models: 81.46 Hz to 83.3 KHz					
Resolution	All models: Capable of approximately chromatic scale over five octaves.					
Duration	All models: 01 sec. to 2.55 second/tone					



Notes:

Memory, I/O and Accessories

Miscellaneous SPU Accessories

Product/ Opt. No.	Component	Description	U.S. List Price
A1099A/B	Keyboard	Must order a Localization Kit with each 362/382/380 Localization Kit with Keyboard and Mouse - see page 34.	\$100.

ATTENTION: There is a 40% to 80% savings on selected RAM prices below:

RAM

Product/ Opt. No.	Component	Description	U.S. List Price
A2200A		382 and R/382 - 4 Mbytes ECC SIMM RAM (Pair of 2 Mbytes modules).	\$1000.
A2201A		382 and R/382 - 8 Mbytes ECC SIMM RAM (Pair of 4 Mbytes modules).	\$1,000.
A2202A		382 and R/382 - 16 Mbytes ECC SIMM RAM (Pair of 8 Mbytes modules).	\$2,000.
D2381A		362 and R/362 - 2 Mbytes Parity SIMM RAM.	\$199.
D2156A		362 and R/362 - 4 Mbytes Parity SIMM RAM.	\$399.
D2152A		362 and R/362 - 8 Mbytes Parity SIMM RAM.	\$799.
98229A		345/375/380 - 4 Mbytes ECC RAM (Pair of 2 Mbyte modules).	\$1,000.
98229B		375/380 - 8 Mbytes ECC RAM (Pair of 4 Mbyte modules).	\$1,200.
98229S		345/375/380 - 16 Mbytes ECC RAM (Pair of 8 Mbyte modules).	\$4,000.
98229D		375/380 16MB ECC RAM (Pair of 8 Mbyte modules).	\$2,400.
98229E		375/380 32MB ECC RAM (Pair of 8 Mbyte modules).	\$4,800.
98269A		332 - 1 Mbyte Parity RAM. Maximum of 2 RAM boards (98269A/B) can be installed.	\$350.
98269B		332 - 4 Mbytes Parity RAM. Maximum of 2 RAM boards (98269A/B) can be installed.	\$1,000.
98268A		340 - 4 Mbytes Parity RAM Maximum of 16 Mbytes can be installed.	\$1,000.
98258A		330/350/370 4 Mbyte Parity RAM with controller	\$3,075.
98258C		330/350/370 12 Mbyte Parity RAM	\$3,000.
98267A		360 4 Mbyte Parity RAM	\$1,775.
98267B		360 8 Mbyte Parity RAM	\$2,500.
98267C		360 12 Mbyte Parity RAM	\$3,000.
98257A		S/200/310/320 1 Mbyte Parity RAM (DIO RAM Card)	\$1,000.

Internal Mass Storage

Product/ Opt. No.	Component	Description	U.S. List Price
98571D		340/345 - 200 Mbyte Disk Drive Field Upgrade Kit.	\$3,600.
A2252A		362/382 - 3.5-inch Floppy Disk Drive Field Upgrade Kit.	\$500.
A2253A		362/382 - CD-ROM Drive Field Upgrade Kit.	\$1,000.
A2257A		362/382 - 52 Mbyte Disk Drive Field Upgrade Kit.	\$1,000.
A2258A		362/382 - 200 Mbyte Disk Drive Field Upgrade Kit.	\$2,000.
A2259A		362/382 - 420 Mbyte Disk Drive Field Upgrade Kit.	\$2,500.
A2254A		382/DSS Drive	\$2,500.

Memory, I/O and Accessories

Expander/Slots

Product/ Opt. No.	Component	Description	U.S. List Price
98568A Opt. 132		310/320/332 - Direct Connect 8-slot I/O Expander. 380/330/350/360/370/375 DIO-II interface: Adapts 98568A for use with SPU or attachment to existing 98570A expander. Maximum of two expanders on these Models.	\$2,025. \$440.
98242B		330/350/360/370/375/380 - 2-slot DIO Backplane. Converts one DIO-II slot to one pair of DIO slots (a total of two DIO slots). Supported on the 98570A Opt. 004 Expander.	\$400.
A2246A		362/382 - Direct Connect 4-slot (DIO) I/O Expander. (May connect up to two expanders.)	\$1,800.
A2247A		362/382 - Direct Connect 2-slot (DIO-II) I/O Expander. (May connect up to two expanders.)	\$2,000.
A1401A		DIO-I adaptor. Converts one DIO-II slot to a single DIO-I slot. Supported on A2247A expander with HP-UX only. Maximum of two A1401As per system.	\$400.
98570A		380/330/350/360/370/375 Direct-Connect DIO-II Expander. 2 DIO-II slots and 2 DIO-I slot pairs (4 total DIO slots). Maximum of two expanders on these Models.	\$2,455.
Opt. 004		Delete DIO-I slots. Deletes 2 DIO-I slot pairs. Adds 2 DIO-II slots.	-\$400.
98577A		380/330/350/360/370/375 Direct-Connect VME Expander. Adds 4 VME C.1 slots to SPU or existing 98570A expander. Maximum of two expanders on these Models. Maximum of one 98577A per system.	\$4,955.

Network Interface Accessories

Product/ Opt. No.	Component	Description	U.S. List Price
98235A		340 - AUI Upgrade (converts ThinLAN to AUI).	\$200.
98237A		340 - ThinLAN Upgrade (converts AUI to ThinLAN).	\$520.
A2255A		362/382 - LAN Interface Field Upgrade Kit (includes AUI and ThinLAN).	\$700.
50962A		SRM Coax Interface (DIO Interface card).	\$1,160.
28641B		ThinMAU: 10Base2 LAN transceiver. 0.5m AUI cable.	\$239.
28683A		ST-Style Fiber Optic transceiver. Direct AUI attach - no cable.	\$499.
28685A		EtherTwist MAU: 10Base5 LAN transceiver. Direct AUI attach - no cable.	\$159.
30241A		ThickMAU: 10Base5 LAN transceiver. No (required) AUI cable included.	\$400.
36592A		HP-UX SNALink DIO-I/O interface card and software right-to-use.	N/C
Opt. 0A0		V.35, single-user: Specifies RS-232C interface on DIO-I/O card and 2 Logical Unit software capability	\$2,560.
Opt. 0A1		V.35, multi-user: Specifies RS-232C interface on DIO-I/O card and 32 Logical Unit software capability	\$6,340.
Opt. 001		V.35, single-user: Specifies V.35 interface on DIO-I/O card and 2 Logical Unit software capability	\$2,165.
Opt. 002		V.35, multi-user: Specifies V.35 interface on DIO-I/O card and 32 Logical Unit software capability	\$5,950.
36941A		X.25/300 DIO-I/O interface card and software.	\$3,090.
Opt. 1AW		Deletes software: for additional X.25 interface on same system.	-\$590.
98171A		LAN/300 Link: AUI-style DIO-I/O card with 28641B 10Base2 ThinMAU and HP-UX Software.	\$2,350.
Opt. 1AW		Delete LAN software. Software not required if running HP-UX version 6.0 or later.	-\$550.
Opt. 241		Delete 28641B ThinMAU.	-\$350.
Opt. 740	30241A	Substitute 10Base5 ThickMAU for ThinMAU	\$200.
Opt. 840	28685A	Substitute 10BaseT EtherTwist MAU for ThinMAU	N/C
98641A		RJE 2780/3780 bisync interface, DIO-I/O. Includes 4.6m DTE-25M cable	\$1,395.
Opt. 001		Substitute V.35 interconnect for RS-232C.	\$795.

Memory, I/O and Accessories

Misc. Interface Products

Product/ Opt. No.	Component	Description	U.S. List Price
K2292		Model 382 HP-UX only: 0.1m cable; expands single DTE 25F RS-232C port to three DTE-25F ports.	\$300.
98297A		RTI: Real-Time Interface card. Two-high DIO-System card for user-programmed SBX I/O modules	\$2,000.
28672A		8-port SBX Serial multi-plexer with patch panel and host/panel interconnect cable (can only be used with 98297A)	\$650.
98622A		GPIO: General Purpose 16-Bit Parallel Duplex I/O card. DIO-I/O style. No cable.	\$390.
Opt. 001		Unterminated cable. Adds 5061-4209 4.6m cable.	\$111.
11738A		Cable for 8770A waveform synthesizer	\$200.
10875A		4.8m cable for 5180A waveform recorder	\$255.
10875B		1.0m cable for 5180A waveform recorder	\$255.
98626A		RS-232C Serial interface card. DIO-I/O style, 50-pin connector, no cable.	\$415.
Opt. 001		DTE Cable. Adds 5061-4215 cable, 4.6m, 25-pin male connector.	\$83.
Opt. 002		DCE cable: Adds 5061-4216 cable, 4.6m 25-pin female connector.	\$83.
98628A		RS-232C "Datacomm" interface card. DIO-I/O style, 50-pin connector, no cable.	\$540.
Opt. 001		DTE Cable. Adds 5061-4215 cable, 4.6m, 25-pin male connector.	\$96.
Opt. 002		DCE cable: Adds 5061-4216 cable, 4.6m 25-pin female connector.	\$96.
Opt. 003		RS-423 cable: Adds 5061-4250 RS-423/499 cable, 4.6m, 37-pin male connector.	\$196.
98630A		Bread board I/O card. DIO-I/O style card with blank cover plate, buffering circuits and 96 square cm of tinned holes on 0.1-inch centers.	\$900.
Opt. 001		Adds 98630-66502 service extender card.	\$110.
98633A		Multi-programmer interface. DIO-I/O card for 6944A multi-programmer. No cable.	\$600.
14704A		1.0m cable.	\$290.
14704B		2.0m cable.	\$310.
14704C		4.0m cable.	\$350.
98638A		8-channel serial multi-plexer. DIO II system style card with RS-232C patch panel and 2.5m card/panel interconnect cable	\$2,150.
Opt. 1AW		Delete software. Suggested for HP-UX 8.0 and later systems.	N/C
Opt. 1C8		Substitute RS-422 panel for RS-232C.	\$250.
98642A		4-channel serial multi-plexer. With a DIO-I/O card with 1 DTE-25F. Full-modem port and 3 RJ-11 3-wire ports. Includes 92219S 5m DTE-25M modem cable for port 0 and 3 92219T 15m DCE-25M direct-connect cables for ports 1-3.	\$670.
Opt. 001		Delete all cables.	-\$100.
98644A		RS-232C Serial interface card. DIO-I/O style, DTE-25F connector, no cable.	\$212.
98646A		VME adaptor. DIO-I/O card and cable set to VME. C.1 card. Connects DIO host computer to customer-supply VME card cage.	\$1,295.
98691A		PDI: RS-232C programmable datacomm interface card. Z-80 based, DIO-I/O style, 50-pin connector, no cable.	\$725.
Opt. 001		DTE Cable: Adds 5061-4215 cable, 4.6m, 25-pin male connector.	\$106.
Opt. 002		DCE cable: Adds 5061-4216 cable, 4.6m 25-pin female connector.	\$106.
Opt. 003		RS-423 cable: Adds 5061-4250 RS-423/499 cable, 4.6m, 37-pin male connector.	\$196.

HP-IB and SCSI Interfaces

Product/ Opt. No.	Component	Description	U.S. List Price
A2256A		Model 362/382 SCSI upgrade. Adds built-in single-ended SCSI interface.	\$200.
98265A		SCSI upgrade. Single-ended Daughter board for System Interface cards of Models 330, 350, 360 or 370 Includes 1.0m cable with male low-density bail-lock (LDBL) connector and LDBL terminator. Replaces 98262A if present.	\$800.
98624A		HP-IB: Standard-speed DIO-I/O interface card. Cable not included.	\$365.
98625B		High-speed HP-IB: DIO-I/O mass-storage interface. Cable not included	\$1,000.
98658A		SCSI: Single-ended DIO-I/O SCSI card with low-density bail-lock (LDBL) connector and LDBL terminator. Cable not included.	\$1,000.

Memory, I/O and Accessories

Graphics Boards/Upgrades

Product/ Opt. No.	Component	Description	U.S. List Price
A1416A		Color VRX: 1280 x 1024 x 8 60Hz Color bit-mapped graphics interface. DIO-II style, Includes 2.5m BNC to BNC cables. Requires 98754A or 98789A monitor, not included. Presently supported on Model 380 only.	\$4,200.
98285A		Model 332 Graphics Upgrade. Upgrades built-in 512 x 400 x 1 monochrome graphics to 1024 x 768 x 1. Requires 98778A monitor.	\$700.
98542A		512 x 400 x 1 60 Hz monochrome bit-mapped graphics interface. DIO-system style, Includes 2.4m RCA-M to RCA-M cable. Requires 35731BM monitor, not included.	\$850.
98543A		512 x 400 x 4 60 Hz color bit-mapped graphics interface. DIO-system style, includes 2.4m BNC to BNC cables. Requires 35741BM monitor, not included.	\$2,555.
98544B		M: 1024 x 768 x 1 60 Hz monochrome bit-mapped graphics interface. DIO-system style. Includes 2.4m RCA-M to BNC cable. Requires 98778A monitor, not included.	\$1,495.
98546A		Display compatibility interface. 512 x 400 monochrome alpha graphics board set with cables for Series 200 compatibility.	\$900.
98548A		MH: 1280 x 1024 x 1 60 Hz monochrome bit-mapped graphics interface. DIO-II, Includes 2.4m BNC to BNC cable. Requires 98788A monitor, not included.	\$2,290.
98549A		C+: 1024 x 768 x 8 60 Hz color bit-mapped graphics interface. DIO-system style, Includes 2.4m BNC to BNC cable. Requires 98753A or 98785A monitor, not included.	\$4,635.
98550A		CH: 1280 x 1024 x 8 60 Hz color bit-mapped graphics interface. DIO-system style, Includes 2.4m BNC to BNC cable. Requires 98754A or 98789A monitor, not included.	\$5,740.
98556A		CHX: Accelerator daughter board for 98550A card.	\$6,250.

Monitors

Product/ Opt. No.	Component	Description	U.S. List Price
98753A		19-inch color monitor, 1024 x 768, 60 Hz, RGB/BNC. Cables not included.	\$6,850.
98754A		19-inch color monitor, 1280 x 1024, 60 Hz, RGB/BNC. Cables not included.	\$6,850.
98778A		19-inch monochrome monitor, 1024 x 768, 60 Hz, BNC. Cable not included.	\$2,125.
98785A		16-inch color monitor, 1024 x 768, 60 Hz, RGB/BNC. Cables not included.	\$3,725.
98789A		16-inch color monitor, 1280 x 1024, 60 Hz, RGB/BNC. Cables not included.	\$3,725.
D1187A		20-inch multi-sync. color monitor. Cable not included. Can be used on 382 ADX.	\$3,695.
D1188A		16-inch multi-sync. color monitor. Cable not included. Can be used on 382 ADX.	\$2,795.
D1194A		14-inch color monitor 640 x 480 60Hz VGA.	\$549.
		Note: D1184A VGA Extension Cable 1.5m	\$60.

Peripherals, Cables and Terminators

RS 232-C Interface Cables for Series 300 Systems

- **HP 24542G** – Primary cable (9-pin F/25-pin M, 3.0 m (9.9 ft.))
- **HP 24542H** – Primary cable (9-pin F/25-pin F, 3.0 m (9.9 ft.))
- **HP 40242G** – Primary cable (25-pin M/25-pin M, 5.0 m (16.0 ft.))
- **HP 17255M** – Primary cable (25-pin M/25-pin M, 1.5 m (5.0 ft.))
- **HP 17255F** – Primary cable (25-pin M/25-pin F, 1.5 m (5.0 ft.))
- **HP 92215F** – Extension cable (25-pin F/25-pin M, 15.0 m (50 ft.))
- **HP 92215T** – Extension cable (25-pin F/25-pin M, 30.0 m (100 ft.))
- **HP 98561-61604** – Pigtail adapter (9-pin M/25-pin F, 0.9 m (11 in.)), used with 98530 thru 98534 human interface boards and in models 330/350/360/370.
- **HP 98574-61606** – Pigtail adapter (9-pin F/9-pin F, 0.9 m (11 in.)), used between models 345/375/380 and 98561-61604 pigtail.

Limited to RS 232-C specifications.

HP-Parallel Interface Cables for Series 300 Systems

- **HP 92284A** – Primary cable (36-pin F/25-pin M, 2.13 m (6.6 ft.))
- **HP 17355D** – Extension cable (25-pin F/25-pin M straight-through, 3.0 m (9.9 ft.))

HP-IB Interface Cables for Series 300 Systems

- **HP 10833A** – 1.0 m (3.3 ft.)
- **HP 10833B** – 2.0 m (6.6 ft.)
- **HP 10833C** – 4.0 m (13.2 ft.)
- **HP 10833D** – 0.5 m (1.6 ft.)

Device/Interface	RS 232-C Model 380	RS 232-C 362/382	HP Parallel	HP-IB
LaserJet Series: IID, IIP, III, IIID, and IIISi	24542G	40242G 17255M	92284A	Not Supported
PaintJet	24542G	40242G 17255M	92284A	10833A/B/ C/D
2562C, 2563C, 2564C, 2566C, and 2567C Printers	24542G	40242G 17255M	Not Supported	10833A/B/ C/D
All Pen Plotters except HP7550	24542G	40242G 17255M	Not Supported	10833A/B/ C/D
HP 7550 Plotters	24542H	17255F	Not Supported	10833A/B/ C/D
HP 7600 Series 250, 255, 355 Electrostatic Plotters	24542G	40242G 17255M	92284A	10833A/B/ C/D

Note: Cables for connecting peripherals to Series 300 Systems MUST be ordered separately. Failure to order these parts as needed will result in delivery of unusable peripherals.

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CONFIGURATION NOT SUPPORTED
 Fast differential SCSI-II will not work with normal
 (single-ended) SCSI-II.
 HP-UX only supports one of each removable
 disk-type mechanisms per system, two tape-type
 mechanisms per system.

*Model 2000 and 2000 DC DDS standalone devices include SCSI cable and terminator to attach directly to Series 700 SCSI port. To daisy-chain to another SCSI peripheral, order appropriate cable (92222A/B/C).

Note: Take care not to exceed 7 SCSI-II devices when connecting expansion systems on each SCSI-II Bus. Order only one terminator per chain.

Memory, I/O and Accessories

Cables

Product/ Opt. No.	Component	Description	U.S. List Price
	Definitions	HDL - High Density Squeeze Lock, 50 pin HDTS - High Density Thumb Screw, 50 pin LDBL - Low Density Bail Lock, 50 pin LDTS - Low Density Thumb Screw, 50 pin	(M) - Male Connector (F) - Female Connector
SCSI			
K2207		SCSI, 0.4m LDTS(M) to LDTS(M)	\$49.
K2208		SCSI, 2.6m LDTS(M) to LDTS(M)	\$62.
K2209		SCSI, 1.5m LDTS(M) to LDTS(M)	\$55.
K2210		SCSI, 0.7m LDTS(M) to LDTS(M)	\$52.
K2211		SCSI, 3.0m LDTS(M) to LDTS(M)	\$66.
K2283		SCSI, 1.5m LDBL(M) to LDTS(M)	\$45.
K2284		SCSI, 0.9m LDBL(M) to LDTS(M)	\$40.
K2285		SCSI, 1.5m LDBL(M) to HDL(M)	\$82.
K2286		SCSI, 0.9m LDBL(M) to HDL(M)	\$79.
K2287		SCSI, 1.5m LDTS(M) to HDL(M)	\$89.
K2288		SCSI, 0.9m LDTS(M) to HDL(M)	\$85.
K2289		SCSI, Terminator, HD	\$59.
K2290		SCSI Terminator, LDTS	\$42.
K2291		SCSI Terminator, LDBL	\$40.
K2294		SCSI, 0.9m LDTS(M) to HDTS(M)	\$89.
K2295		SCSI, 1.5m LDTS(M) to HDTS(M)	\$94.
K2296		SCSI, 0.9m LDBL(M) to HDTS(M)	\$83.
K2297		SCSI, 1.5m LDBL(M) to HDTS(M)	\$88.
92222A		For 345, 375, 380	
92222B		SCSI, 0.5m LDBL(M) to LDBL(M)	\$49.
92222C		SCSI, 1.0m LDBL(M) to LDBL(M)	\$55.
92222D		SCSI, 2.0m LDBL(M) to LDBL(M)	\$59.
		SCSI, 1.0m LDBL(M) to LDBL(F) extension	\$55.
HP-IB			
10833A		HP-IB, 1.0m	\$80.
10833B		HP-IB, 2.0m	\$90.
10833C		HP-IB, 4.0m	\$100.
10833D		HP-IB, 0.5m	\$80.
10834A		HP-IB adapter extends HP-IB connector 2.3cm.	\$31.
8120-3448		HP-IB, 6.0m	\$125.
8120-3449		HP-IB, 8.0m	\$135.
RS-232			
17255D		RS-232C, 1.4m 25M - to - 25F, swapping	\$44.
17255F		RS-232C, 1.4m 25F - to - 25F, swapping	\$44.
24542G		RS-232C, 3.0m 9F - to - 25M, "printer"	\$60.
24542H		RS-232C, 3.0m 9F - to - 25F, For DTE-25M devices	\$60.
24542M		RS-232C, 3.0m 9F - to - 25M, "modem"	\$60.
40242C		RS-232C, 5.0m 25F - to - 25M, straight-thru extension	\$108.
40242G		RS-232C, 5.0m 25M - to - 25M, swapping	\$77.
40242M		RS-232C, 5.0m 25M - to - 25M, straight-thru	\$77.
92284A		Centronics parallel, 2.1m (25M - to - 36M)	\$39.
D1184A		VGA Extension Cable for use with D1180A (1.5m)	\$60.

Note: Bail lock and thumb screws are interchangeable on 362/382.

Memory, I/O and Accessories

Human Interface Devices

Product/ Opt. No.	Component	Description	U.S. List Price
Keyboards and Localization Kits			
A1099A		Localization Kit (Keyboard) Includes: HP-HIL Keyboard (P/N 46021), HP-HIL 3-button Mouse (P/N 46060B), localized manual set, and appropriate power cord.	\$100.
A1099B		Localization Kit for HP-UX Users (includes HP-UX manuals B1864A Opt. OBD).	\$100.
Must specify one of the following options for P/N A1099A/B:			
Opt. ABA		U.S. English Version	N/C
Opt. ABC		Canadian French Version	N/C
Opt. ABD		German Version	N/C
Opt. ABE		European Spanish Version	N/C
Opt. ABF		European French Version	N/C
Opt. ABH		Dutch Version	N/C
Opt. ABJ		Katakana (Japanese) Version	N/C
Opt. ABK		ICON/European ASCII Version	N/C
Opt. ABM		Latin American Version	N/C
Opt. ABN		Norwegian Version	N/C
Opt. ABP		Swiss German Version	N/C
Opt. ABQ		Swiss French Version	N/C
Opt. ABS		Swedish Version	N/C
Opt. ABU		U.K. English Version	N/C
Opt. ABW		Belgian Dutch Version	N/C
Opt. ABX		Finnish Version	N/C
Opt. ABY		Danish Version	N/C
Opt. ABZ		Italian Version	N/C
Opt. ARO		Kanji (Japanese) Version	N/C
Opt. ABO		Taiwanese Version	N/C
Opt. AB1		Korean Version	N/C
A2205A*	C1429A	Localization Kit. Includes PC-101 Keyboard (HP-HIL), Mouse, HP-HIL cable and appropriate power cord. Must Specify localization option. Supported only by HP-UX, 8.0 or later.	\$100.
Must specify one of the following options for P/N A2205A.			
Opt. ABA		U.S. English version	N/C
Opt. ABD		German version	N/C
Opt. ABF		French version	N/C
Opt. ABP		Swiss German version	N/C
Opt. ABU		U.K. English version	N/C
Opt. ABE		Spanish version	N/C
Opt. ABS		Swedish version	N/C
Opt. ABY		Danish version	N/C
Opt. ABZ		Italian version	N/C
Opt. ABN		Norwegian version	N/C
Opt. ARO		Kanji (Japanese) version	N/C
Opt. ABO		Taiwanese version	N/C
Opt. AB1		Korean version	N/C
46021A		Keyboard - U.S. English Version (order cable separately)	\$170.
98203C		Keyboard with Rotary Knob for BASIC and Pascal systems (U.S. ASCII).	\$950.
98203CD		German, HP-HIL. Cable not included.	\$950.
98203CE		Spanish, HP-HIL. Cable not included.	\$950.
98203CF		French, HP-HIL. Cable not included.	\$950.
98203CJ		Katakana, HP-HIL. Cable not included.	\$950.
98203CS		Swedish, HP-HIL. Cable not included.	\$950.
46021AV		Arabic English	\$155.
46021W		Arabic French	\$155.
Opt. 2AG		Must order Option	N/C

*** Note:** ONLY German and English versions are localized on A2205A at this time. All other options contain an English keyboard with localized power cord.

Memory, I/O and Accessories

Human Interface Devices (continued)

Product/ Opt. No.	Component	Description	U.S. List Price
Mice			
K1410		3-button Mouse, Quadrature, 1m cable (requires 46094A).	\$99.
46060A		2-button Mouse, HP-HIL, 1.5m cable.	\$179.
46060B		3-button Mouse, HP-HIL, 1.5m cable.	\$180.
Miscellaneous HP-HIL Devices			
46084A		ID Module, HP-HIL, 0.5m cable.	\$200.
46085A		Control Dial Module, (9 dials), HP-HIL, 0.8-3m coiled cable.	\$1,450.
46086A		32-button Box (with 32 user-definable special-function keys and one user programmable LED), HP-HIL, 0.8-3m coiled cable.	\$965.
Other Relative Pointing Devices			
M1309A		Trackball, HP-HIL, 0.4m cable.	\$302.
46083A		Knob Box (single knob), HP-HIL, 0.4m cable.	\$205.
46094A		Quadrature Port (allows devices using Logitech quadrature signals to be connected to HP-HIL interface), 0.4m cable.	\$250.
Tablets, Digitizers and Absolute Pointing Devices			
35723A		Touchscreen Bezel (for 35741BM 12-inch monitor)	\$530.
45911C		Digitizer - (11-inch x 11-inch, 12 lines per inch resolution.) with stylus and cursor, HP-HIL	\$599.
46087C		Digitizer - ANSI A/ISO A4-size. (Includes tip-switch stylus.), 0.8-3m coiled cable	\$875.
46088C		Digitizer - ANSI B/ISO A3-size (includes tip-switch stylus), 0.8-3m coiled cable	\$1,405.
46090C		Digitizer - ANSI A/ISO A4-size (includes 4-button cursor with crosshair), 0.8-3m coiled cable	\$875.
46091C		Digitizer - ANSI B/ISO A3-size (includes 4-button cursor with crosshair), 0.8-3m coiled cable	\$1,405.
HP-HIL Extensions			
46080A		HP-HIL Extension, 2.4 meter, HP-HIL. No audio or video.	\$94.
46081A		HP-HIL Extension (2.4 meter) with Audio. (No Video)	\$225.
46082A		HP-HIL Extension (15 meter) with Audio and RGB Video.	\$795.
Opt. 015		Delete RGB and Remote.	-\$335.
Opt. 343		Delete RGB cables.	-\$120.
46082B		HP-HIL Extension (30 meter) with Audio and RGB Video	\$1,115.



Memory, I/O and Accessories

Disk Drives

Product/ Opt. No.	Component	Description	U.S. List Price
A1999A		Stand-alone CD-ROM drive. Single-ended SCSI, Low-density Bail-lock connectors. Cable not included.	\$1,300.
		Series 6300 Magneto-Optic Disks	
C1701A		Model 650/A Stand-alone cartridge drive. Single-ended SCSI Low-density bail-lock connectors. Cable not included.	\$6,435.
C1707A		Stand-alone CD-ROM drive. HP-IB. Cable not included.	\$1,995.
		Series 6000 Mass Storage Subsystems	
C2212A		Model 330S Mass storage system Includes 332 Mbyte hard disk in an upgradeable package. Low-density Bail-lock (F) connectors.	\$4,325.
Opt. 001		Add-on 332 Mbyte hard disk	\$4,000.
Opt. 003		Add-on 1.3 Gbyte DDS (4 mm DDS) Tape drive	\$4,700.
Opt. 004		Add-on CD-ROM disk	\$1,250.
Opt. 005		Add-on 650 Mbyte Magneto-optic disk.	\$5,400.
Opt. 024		Two Add-on CD-ROM disks	\$2,500.
Opt. 303		Pre-install HP-UX 7.0 (on 332 Mbyte)	\$75.
C2213A		Model 660S Mass Storage Includes 664 Mbyte hard disk in an upgradeable package. Low-density bail-lock (F) connectors.	\$5,175.
Opt. 001		Add-on 332 Mbyte hard disk	\$4,000.
Opt. 002		Add-on 664 Mbyte hard disk	\$4,850.
Opt. 003		Add-on 1.3 Gbyte DDS (4 mm DDS) Tape drive	\$4,700.
Opt. 004		Add-on CD-ROM disk	\$1,250.
Opt. 005		Add-on 650 Mbyte Magneto-optic disk.	\$5,400.
Opt. 022		Two Add-on 664 Mbyte hard disks.	\$9,700.
Opt. 024		Two Add-on CD-ROM disks	\$2,500.
Opt. 306		Pre-install HP-UX 7.0 (on 664 Mbyte)	\$75.
C2214T		Model 1350S SCSI Mass Storage System Single ended SCSI includes 1355 Mbyte disk.	\$6,200.
C2216T		Model 670SE SCSI Mass Storage System Single ended SCSI includes 677 Mbyte disk.	\$4,800.
C2217B		Model 1350SE SCSI Mass Storage System Single ended SCSI 1355 Mbyte.	\$6,200.
C2292T		1.3 Gbyte Digital Audiotape Upgrade kit to a 670SE or 1350SE (C2216 or 17) SCSI	\$2,500.
C2293T		600 Mbyte CD-ROM Drive Upgrade kit to a 670SE or 1350SE (C2216 or 17) SCSI	\$2,500.
C2294T		650 MByte Rewritable Optical Upgrade kit to a 670SE or 1350SE (C2216 or 17) SCSI.	\$5,400.
C2290A		332 Mbyte hard disk upgrade for C2212A or C2213A.	\$4,200.
C2291A		664 Mbyte hard disk upgrade for C2212A or C2213A.	\$5,050.
C2292A		1.3 Gbyte DDS (4 mm DAT) Tape drive upgrade for C2212A or C2213A.	\$5,150.
C2293A		CD-ROM upgrade for C2212A or C2213A.	\$1,450.
C2294A		Magneto-optic upgrade for C2212A or C2213A. Adds 650 Mbyte Re-writeable optical disk drive. SCSI, internally cabled.	\$5,850.
98433D		200 Mbyte hard disk upgrade for Model 345.	\$3,600.
		HP-IB Disk Drives	
C2200A		Model 335H 335 Mbyte HP-IB Disk Drive. Earliest operating sytem versions required:HP-UX 7.0, RMB 6.0.	\$5,325.
C2203A		Model 670H 670 Mbyte HP-IB Disk Drive. Earliest operating sytem versions required:HP-UX 7.0, RMB 6.0.	\$8,875.
Opt. 1AK		Delete disk cartridge.	\$245.
Opt. 231		Delete media (all but one cartridge).	\$6,500.

Memory, I/O and Accessories

Tape Drives

Product/ Opt.No.	Component	Description	U.S. List Price
C1511A		Series 6400 Model 1300H 1.3 Gbyte DDS (4mm DDS) tape drive. Stand-alone HP-IB.	\$7,500.
C1520B		New HP DAT System Backup Solution DDS-Format SCSI DDS drive providing 2 Gbyte capacity on 90m DDS cassette.	\$3,150.
C1521B		New HP DAT System Backup Solution DDS-Format SCSI DDS drive providing 8 Gbyte capacity on 90m DDS cassette.	\$4,150.
9144AR		1/4-inch 16-track 67 Mbyte cartridge tape drive. HP-IB, cable not included.	\$2,600.
9145AR		1/4-inch 32-track 134 Mbyte cartridge tape drive. HP-IB, cable not included.	\$4,055.

Printers

Product/ Opt.No.	Component	Description	U.S. List Price
C2106A		DeskJet 500, RS-232C and Parallel. Interface cable not included.	\$729.
2225A		ThinkJet, HP-IB, interface cable not included	\$595.
2225D		ThinkJet, RS-232C, interface cable not included	\$595.
2227A		QuietJet Plus, RS-232C and Parallel. Interface cable not included.	\$849.
33449A		LaserJet-III, 8 pages per minute, RS-232C and Parallel. Interface cable not included. Localized versions (different suffix) not shown.	\$2,395.
33459A		LaserJet-IIID, 8 pages per minute, duplex, dual-tray. RS-232C and Parallel. Interface cable not included. Localized versions	\$3,595.
33481A		LaserJet-IIIP, 4 pages per minute. RS-232C and Parallel. Interface cable not included. Localized versions (different suffix) not shown.	\$1,595.
33491A		LaserJet-IIISi, 17 pages per minute, duplex, dual-tray. RS-232C and Parallel. Interface cable not included. Localized versions (different suffix) not shown.	\$5,635.
92203J/K		HP-IB to Parallel output adaptor. (J) = Domestic (K) = International	\$210.

Graphics Hardcopy Devices

Product/ Opt. No.	Component	Description	U.S. List Price
PaintJet Printers			
C1602A		PaintJet XL A/A4/B/A3-size color ink-jet printer. Must specify interface Option. Interface cable not included.	\$2,495.
Opt. 1AX		RS-232C (DTE-25F) & Centronics Interface	N/C
Opt. 1A8		HP-IB Interface	N/C
3630A		PaintJet XL A/A4-size color ink-jet printer. Must specify interface Option. Interface cable not included.	\$1,395.
Opt. 001		V.24/RS-232C (DTE-25F) Interface	N/C
Opt. 002		HP-IB Interface	N/C
Opt. 004		Parallel Interface	N/C
Pen Plotters			
7440A		ColorPro A4/A-size 8-pen plotter. Must specify interface Option. Interface cable not included.	\$1,295.
Opt. 001		V.24/RS-232C (DTE-25F) Interface	N/C
Opt. 002		HP-IB Interface	N/C
7475A		A4/A and A3/B-size 6-pen plotter. Must specify interface Option. Interface cable not included.	\$1,895.
Opt. 001		V.24/RS-232C (DTE-25F) Interface	N/C
Opt. 002		HP-IB Interface	N/C
7550B		7550 Plus A4/A, A3/B-size 8-pen auto-feed plotter. Must specify interface Option. Interface cable not included.	\$3,995.
Opt. 005		HP-IB and eavesdrop RS-232C (DTE-25M) Interface	\$200.
Opt. 006		Parallel non-eavesdrop RS-232C (DTE-25M) interface	N/C
C2114A		DeskJet 500C Printer for IBM compatible, Parallel and Serial Interfaces.	\$1,095.

Memory, I/O and Accessories

700 Serial Terminals

Product/ Opt.No.	Component	Description	U.S. List Price
700 Family Serial Terminals			
Specify (A), (G) or (W) as Product Number suffix () for Amber, Green or White phosphor, respectively.			
C1001(A, G, W)		700/92 alpha-numeric terminal. term0-compatible, with block mode. RS-232C, DTE-25F. Cable not included.	\$895.
C1002(A, G, W)		700/94 alpha-numeric terminal. term0-compatible, with block mode, expanded memory and advanced data-entry features. RS-232C, DTE-25F. Cable not included.	\$1,150.
C1006(A, G, W)		700/43 alpha-numeric terminal. Not term0-compatible (cannot be system console). HP-UX supports only WYSE-30 emulation. RS-232C, DTE-25F. Cable not included.	\$499.
C1007(A, G, W)		700/44 alpha-numeric PC-terminal. Not term0-compatible (cannot be system console). HP-UX supports only VT-100 emulation. SoftPC supports PC-term mode. RS-232C, DTE-25M. Cable not included.	\$649.
C1017(A, G, W)		700/32 alpha-numeric ANSI terminal. Not term0-compatible (cannot be system console). HP-UX supports only VT-100 emulation. RS-232C, DTE-25M. Cable not included.	\$759.

700/RX Terminals

Product/ Opt.No.	Component	Description	U.S. List Price
700/RX Bundled Models			
C2702B		Model 19Mi Monochrome X station High performance 90 XStones Includes: 19" 72Hz 1280x1024 mono monitor Model Mi base unit, power cord 4 MB DRAM, 0.25 MB VRAM PS/2 keyboard, PS/2 mouse, cables	\$3,295.
Opt 1A2		Delete PS/2 keyboard	-\$60.
Opt AN7		Delete 2 MB SIMM	-\$299.
Opt W03		Convert 1-year return to HP warranty to 90-day onsite	N/C
C2705A		Model 14Ci Medium-Res Color X station Intermediate performance 52 XStones Includes: 14" 1024x768 color monitor 4 MB DRAM, 1 MB VRAM PS/2 keyboard, PS/2 mouse, cables	\$3,495.
Opt 1A2		Delete PS/2 keyboard	-\$60.
Opt AN7		Delete 2 MB SIMM	-\$299.
Opt W03		Convert 1-year return to HP warranty to 90-day on-site	N/C
C2706A		Model 16Ci Medium-Res Color X station Intermediate performance 52 XStones Includes: 16" 75Hz 1024x768 color monitor Model Ci base unit, power cord 4 MB DRAM, 1 MB VRAM PS/2 keyboard, PS/2 mouse, cables	\$4,495.
Opt 1A2		Delete PS/2 keyboard	-\$60.
Opt AN7		Delete 2 MB SIMM	-\$299.
Opt W03		Convert 1-year return to HP warranty to 90-day onsite	N/C
C2710A		Model 16Ca Medium-Res Color X station Intermediate performance 86 XStones Includes: 16" 75Hz 1024x768 color monitor Model Ca base unit, power cord 4 MB DRAM, 1 MB VRAM PS/2 keyboard, PS/2 mouse, cables	\$5,195.

Memory, I/O and Accessories

700/RX Terminals (continued)

Product/ Opt.No.	Component	Description	U.S. List Price
Opt 1A2		Delete PS/2 keyboard	-\$60.
Opt AN7		Delete 2 MB SIMM	-\$299.
Opt W03		Convert 1-year return to HP warranty to 90-day onsite	N/C
C2711A		Model 19Ca High-Res Color X station High performance 86 XStones Includes: 19" 72Hz 1280x1024 color monitor Model Ca base unit, power cord 4 MB DRAM, 2 MB VRAM PS/2 keyboard, PS/2 mouse, cables	\$5,995
Opt 1A2		Delete PS/2 keyboard	-\$60.
Opt AN7		Delete 2 MB SIMM	-\$299.
Opt W03		Convert 1-year return to HP warranty to 90-day onsite	N/C
Note: All models listed above require a localization option (ie. ABA).			
700/RX Base Models			
C2701B		Model Mi Monochrome Base Unit Includes: Model Mi base unit, power cord 4 MB DRAM, 0.25 MB VRAM PS/2 keyboard, PS/2 mouse Monitor cable	\$2,695
Opt 1A2		Delete PS/2 keyboard	-\$60.
Opt AN7		Delete 2MB SIMM	-\$299.
Opt W03		Convert 1-year return to HP warranty to 90-day onsite	N/C
C2706A		Model Ci Medium-Res Color Base Unit Includes: Model Ci base unit, power cord 4 MB DRAM, 1 MB VRAM PS/2 keyboard, PS/2 mouse Monitor cable	\$2,995
Opt 1A2		Delete PS/2 keyboard	-\$60.
Opt AN7		Delete 2MB SIMM	-\$299.
Opt W03		Convert 1-year return to HP warranty to 90-day onsite	N/C
C2709A		Model Ca High-Res Color Base Unit Includes: Model Ca case unit, power cord 4MB DRAM, 2MB VRAM PS/2 keyboard, PS/2 mouse Monitor cable	\$3,895
Opt 1A2		Delete PS/2 keyboard	-\$60.
Opt AN7		Delete 2MB SIMM	-\$299.
Opt W03		Convert 1-year return to HP warranty to 90 day on-site	N/C
Note: The HP 700/RX base models listed above do not include a monitor. The monitor must be ordered seperately.			
Note: All models listed require a localization option (ie. ABA) and the X11 server software. Refer to the HP 700/RX January 1992 Technical Data Sheet (5952-2130) for detailed specifications and ordering information.			
Optional User Memory			
C2320A		1 Mbyte SIMM (DRAM)	\$169.
C2321A		2 Mbyte SIMM (DRAM)	\$299.
C2322A		4 Mbyte SIMM (DRAM)	\$499.
C2323A		8 Mbyte SIMM (DRAM)	\$1,199.

Memory, I/O and Accessories

700/RX Terminals (continued)

Product/ Opt.No.	Component	Description	U.S. List Price
Configuration Table for Optional Memory Modules (for all modules)			
4 Mbytes		These models come standard with a total of 4MB	
6 Mbytes		Add 2 MB SIMM P/N C2321A - or - Use Opt AN7 to delete 2MB SIMM and order a 4 MB SIMM P/N C2322A	
10 Mbytes		Use Opt AN7 to delete 2 MB SIMM and order a 8 MB SIMM P/N C2323A - or - Use Opt AN7 to delete 2 MB SIMM and order (2) 4 MB SIMMs P/N C2322A	
18 Mbytes		Use Opt AN7 to delete 2 MB SIMM and order (2) 8 MB SIMMs P/N C2323A	
Note: All HP 700/RX models come standard with 4 Mbytes of DRAM on the processor board. Any additional memory is customer installable.			
Note: All HP 700/RX models will need to be installed with a minimum of 4 Mbytes of DRAM to operate with the new B.03 version of the X server software. Therefore, any customers with 700/RX stations with less than 4 Mbytes (ie. 19" monochrome C2701A) will need to order more memory.			

Localization Options

All HP 700/RX models must be ordered with a localization option. The no-charge options and descriptions are identified below.

ABA	N. American keyboard, N. American power cord
ABB	N. American keyboard, European power cord
ABC	French Canadian keyboard, N. American power cord
ABD	German keyboard, European power cord
ABE	Spanish keyboard, European power cord
ABF	French keyboard, European power cord
ABG	N. American keyboard, Australian power cord
ABJ	Japanese keyboard (46021W-ZAL), Japanese power cord
ABN	Norwegian keyboard, European power cord
ABP	German/French keyboard, Swiss power cord
ABS	Swedish/Finnish keyboard, European keyboard
ABU	U.K. English keyboard, U.K. power cord
ABW	Belgian/Flemish keyboard, European power cord
ABY	Danish keyboard, Danish power cord
ABZ	Italian keyboard, European power cord
AB0	Traditional Chinese keyboard (46021W-ZAA), Taiwan power cord
AB1	Hangul keyboard (46021W-ZAB), Korean power cord
AB4	N. American keyboard, Singapore/Hong Kong power cord
ACC	N. American keyboard, U.K. power cord
ACD	N. American keyboard, Swiss power cord
ACE	N. American keyboard, Danish power cord
ACF	N. American keyboard (46021A), Japanese power cord
Note: Refer technical data sheet (P/N 5952-2130) for more details.	

Upgrade Products

C2712A	Monochrome Upgrade Upgrade an HP 700/X terminal XPU (C2302A, C2305A/B) to an HP 700/RX station Model Mi XPU (C2700A)
C2713A	Color Mid-Range Upgrade Upgrade an HP 700/X terminal XPU (C2303A/B, C2304A/B, C2307B) to an HP 700/RX station Model Ci XPU (C2703A)
C2714A	Color High-Performance Upgrade Upgrade an HP 700/X terminal XPU (C2304A/B, C2307B) to an HP 700/RX station Model Ca XPU (C2707A)

Software and Documentation Configuration

HP-UX 8.0 License-to-use and Media

Most Series 300 bundles now include an HP-UX 8.0 Run-Time license-to-use. HP-UX software media is not included as part of that Run-Time license, even in bundles which include pre-installed HP-UX code. At least one copy of the HP-UX media is recommended for each work group or diskless cluster. This software can be ordered with the following part numbers:

Part Number	Description
B1861A opt. AA0	HP-UX 8.0 Installation/Recovery 1/4-inch magnetic tape
B2378A opt AAF	HP-UX 8.0 Installation/Recovery CD ROM media.

HP-UX Run-Time is a robust environment that allows any HP-UX application to run in a standalone or networked environment. Aside from a C compiler, without a debugger or optimizer, the Run-Time product does not include programming tools. There are other HP-UX products, described in the pricing section of this document, that provide capabilities to customize your HP-UX configuration.

HP-UX 8.0 Documentation

Documentation is no longer bundled with the HP-UX license-to-use. HP-UX documentation is available in both CD ROM and hard copy form. Series 300 documentation can be ordered with part number B1864A. There are several options, listed in the pricing section of this document, to customize this documentation.

HP BASIC Documentation

The BASIC products shown include the manual sets listed:

- HP BASIC/WS (98616B) includes Core and HP BASIC/WS manual sets.
- HP BASIC/UX (E2040A) includes Core, HP BASIC/UX and Compiler manual sets.
- HP BASIC/DOS for the Measurement Coprocessor products (82324B and 82300D) include modified Core and HP BASIC/DOS manual sets.
- HP BASIC/WS CSUB Utilities (98616S) includes the CSUB manual set.
- HP BASIC/WS Compiler (98618B) includes the HP BASIC Compiler manual set.

The following table identifies the manuals included in each manual set.

Part Number	Description
HP BASIC 6.2 Core Manuals	
98616-90010	HP BASIC 6.2 Programming Guide
98616-90004	HP BASIC 6.2 Language Reference
98616-90005	HP BASIC 6.2 Condensed Reference
98616-90012	HP BASIC 6.2 Advanced Programming Techniques **
98616-90013	HP BASIC 6.2 Interface Reference **
98616-90014	HP BASIC 6.2 Porting and Globalization**

HP BASIC Documentation continued

Part Number	Description
HP BASIC/WS 6.2 Manuals	
98616-90000	Installing and Maintaining HP BASIC/WS 6.2
98616-90001	Using HP BASIC/WS 6.2
HP BASIC/UX 6.2 Manuals	
E2040-90002	Installing and Maintaining HP BASIC/UX 6.2
E2040-90001	Using HP BASIC/UX 6.2
E2040-90003	Developing CSUBs for HP BASIC/UX 6.2
HP BASIC/DOS 6.2 Manuals	
82324-90004	Installing and Using HP BASIC/DOS 6.2
82324-90005	Porting Guide for the Measurement Coprocessor
82301-90022	Integrating HP BASIC with MS-DOS Applications
HP BASIC CSUB Utility Manual	
98616-90006	HP BASIC 6.X CSUB Utility
HP BASIC Compiler Manual	
98618-90001	Compiling HP BASIC 6.2 Programs*

* Also included with HP BASIC/UX.

** Included with HP BASIC/WS and HP BASIC/UX only.

HP-UX and HP BASIC/UX

HP-UX 8.0 Run-Time Products

Product/ Opt. No.	Component	Description	U.S. List Price
B1861A		HP-UX Run-Time Environment, 2-user. Includes: HP-UX operating system, HP VUE, NFS, ARPA, Diskless, SAM, and run-time support for: X11, OSF/Motif, Starbase, Starbase Display List, NCS, and NetLS. Note: Software is also available on CD-ROM media B2378A. Complete documentation is available in B1864A.	N/C
Opt. AA0		Cartridge Tape, 16-track, 1/4-inch. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B1864A for complete system administration and installation documentation.	\$395.
Opt. UA1		License-to-use, 2 user.	\$695.
B1862A		HP-UX Run-Time Environment, 32-user. Includes: HP-UX operating system, HP VUE, NFS, ARPA, Diskless, SAM, and run-time support for: X11, OSF/Motif, Starbase, Starbase Display List, NCS, and NetLS. Note: Software is also available on CD-ROM media B2378A. Complete documentation is available in B1864A.	\$1,895.
Opt. AAU		CD certificate. Required to access application on CD-ROM media.	N/C
Opt. AA0		Cartridge tape, 16-track, 1/4-inch. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B1864A for complete system administration and installation documentation.	\$395.

HP-UX 8.0 Programming Products

Product/ Opt. No.	Component	Description	U.S. List Price
B1863A		HP-UX C/ANSI C Developer's Bundle. Includes: License-to-use for one workstation; C/ANSI C compiler, X11, OSF/Motif, HP VUE, Starbase, Starbase Display List, and General Programming Tools. Note: Software is available on CD-ROM media B2378A. Complete documentation is available in B1864A.	\$1,795.
Opt. AAU		CD certificate. Required to access application on CD-ROM media.	N/C
Opt. AA0		Cartridge tape, 16-track, 1/4-inch.	\$195.
B1865A		HP-UX Developer's Toolkit. Includes: Developer's license-to-use for one workstation; X11, OSF/Motif, HP VUE, Starbase, Starbase Display List, and General Programming Tools. Note: Software is available on CD-ROM media B2378A. Complete documentation is available in B1864A.	\$395.
Opt. AAU		CD certificate. Required to access application on CD-ROM media.	N/C
Opt. AA0		Cartridge tape, 16-track, 1/4-inch.	\$195.
B2379A		HP-UX General Programming Tools. Includes: Site license-to-use general programming and version control commands. Note: Software available unprotected on CD-ROM media B2378A. Refer to B1864A for documentation.	N/C
Opt. AA0		Cartridge tape, 16-track, 1/4-inch.	\$195.

HP-UX and HP BASIC/UX

HP-UX 8.0 Software on CD Media

Product/ Opt. No.	Component	Description	U.S. List Price
B2378A		HP-UX Software CD Media. Includes:HP-UX 8.x and related software products (as available) on CD-ROM media. Requires HP-UX 8.x license-to-use.	N/C
Opt. AAB		CD Media Kit. Includes:Software on CD-ROM, pre-computed codeword for software products ordered concurrently, and HP-HIL ID Module.Documentation included:Installing and Updating HP-UX, and Installing Peripherals.	\$595.
Opt. AAF		CD-ROM Disk Set. Includes:Software on CD-ROM.Does not include HP-HIL ID Module. Documentation included:Installing and Updating HP-UX, and Installing Peripherals.	\$495.

HP-UX 8.0 Documentation

Product/ Opt. No.	Component	Description	U.S. List Price
B1864A		HP-UX 8.x Documentation.Available on CD-ROM or in hardcopy form.	N/C
Opt. OBC		Documentation on CD-ROM. Includes 1-user license-to-use.	\$795.
Opt. UA2		4-user Add-on License for CD-ROM Documentation. License-to-use for 4 additional users of CD-ROM documentation access software.	\$395.
Opt. OBD		General Usage Guides. (included with A1099B) Hardcopy general user's guides for HP-UX, HP VUE, and X Windows. Note: This set is shipped with each HP-UX workstation.	\$130.
Opt. OBE		HP-UX System Administration and Installation Manuals. Hardcopy administration and installation manuals for HP-UX, networking, and HP VUE.	\$650.
Opt. OBG		HP-UX User's Guides. Hardcopy manuals for UUCP, mail, text formatting and processing, shells, and editors.	\$175.
Opt. OBF		General Programming Manuals. Hardcopy manuals for assembler, device I/O, native language support, and general HP-UX programming techniques.	\$325.
Opt. OBT		C/ANSI C Manuals. Hardcopy manuals for C/ANSI C and symbolic debugger.	\$195.
Opt. OBJ		Complimentary hardcopy documentation not yet available on CD.	\$150.
Opt. OBL		User Environment. Hardcopy programming manuals for X Toolkit Intrinsics, Xlib, HP VUE, and HP OSF/Motif.	\$695.
Opt. OBM		Starbase Manuals. Hardcopy programming manuals for Starbase, Starbase Display List, and Radiosity and Ray Tracing.	\$975.

HP-UX and HP BASIC/UX

HP-UX 8.0 Documentation Option Part Number List

Product/ Opt. No.	Part Number	Description	CD-ROM
#OBD		General Usage (one set included with each A1099B Keyboard Kit)	
	B1171-90042	HP VUE User's Guide	Yes
	B1171-90043	Using the X Window System	Yes
	B1862-90000	A Beginner's Guide to HP-UX	Yes
	B2355-90013	Finding Information (HP-UX)	Yes
#OBE		System Administration and Installation	
	98194-60526	Installing and Administering LAN	Yes
	98194-60522	Using Serial Line IP Protocols	Yes
	B1012-90012	Networking Overview	Yes
	B1013-90008	Using NFS Services	Yes
	B1013-90009	Installing and Administering NFS	Yes
	B1014-90006	Using ARPA Services	Yes
	B1014-90007	Installing and Administering ARPA Services	Yes
	*B1171-90041	HP VUE Configuration Guide	Yes
	*B1171-90044	HP VUE System Administration	Yes
	*B2355-90000	Installing and Updating HP-UX (8.0/8.05)	Yes
	*B2355-90014	Installing and Updating HP-UX (8.07)	N/A
	B2355-90008	Master Index (HP-UX)	Yes
	B1862-90004	Error Message Catalog (HP-UX)	Yes
	B2355-90005	How HP-UX Works: Concepts for the System Administrator	Yes
	B2355-90009	Managing Clusters HP 9000 Computers Sharing the HP-UX File System	Yes
	*B2355-90006	Installing Peripherals	Yes
	B2355-90003	System Administration Tasks	Yes
	B1862-90009	HP-UX System Security	Yes
	B1862-90010	Solving HP-UX Problems	Yes
	B2355-90015	Improving performance with Software Disk Striping	Yes
	B2355-90004	HP-UX Reference	Yes
	D-11272-B	Managing Software Products with Network License System	N/A
	D-11895-C	Managing NCS Software	N/A
* Manuals shipped with HP-UX tape products, B2352A, B2355A, and CD-ROM media products, and B2358A/B2826A.			
#OBG		HP-UX User's Guides	
	B1862-90011	Remote Access: Kermit, UUJCP, vt	Yes
	B1862-90012	Mail System: elm, mailx	Yes
	B1862-90013	Terminal Control: curses, TermO, ITE	Yes
	B1862-90014	Text Formatting: mm, tbl, nroff	Yes
	B1862-90015	Number Processing: bc, bx, dc	Yes
	B1862-90016	Text Processing: awk, ed, sed	Yes
	B1862-90017	Shells: Bourne, C, Korn, Keyshell, PAM	Yes
	97005-90015	Ultimate Guide to VI and EX Text Editors	Yes
#OBT		C/ANSI C Compiler	
	B1864-90005	HP-UX Symbolic Debugger	Yes
	B1864-90009	C Programming Tools	Yes
	92434-90002	C Programmer's Guide	Yes
	92453-90024	C Reference	Yes
#OBF		General Programming	
	92432-90005	ADB Tutorial	N/A
	98194-60524	LLA Programmer's Guide	N/A
	98194-60525	Berkeley IPC Programmer's Guide	N/A
	98194-60527	NetIPC Programmer's Guide	N/A
	B1013-90010	Programming and Protocols for NFS Services	Yes
	B2355-90004	HP-UX Reference	Yes
	B1864-90001	Posix Conformance Document	Yes
	B1864-90002	Device I/O: DIL, HP-HIL	Yes
	B1864-90003	Native Language Support	Yes
	92432-90001	HP-UX Assembler and Tools	Yes
	B1864-90006	HP-UX Portability Guide	Yes
	B2355-90010	Programming on HP-UX	Yes
	B2355-90016	Using the Audio Application Programming	Yes

HP-UX and HP BASIC/UX

HP-UX 8.0 Option Part Number List (continued)

Product/ Opt. No.	Component	Description	CD-ROM
#OBL		User Environment	
	B1171-90024	HP VUE User Environment Programmer's	Yes
	B1171-90026	Guide Programming with Xlib	Yes
	B1171-90027	X Toolkit Intrinsics Programming	N/A
	B1171-90028	X Toolkit Intrinsics Reference	N/A
	B1171-90029	X Window System C Quick Reference	Yes
	5010-7168	Mastering Motif Widgets	Yes
	B1171-90032	HP OSF/Motif Style Guide	Yes
	B1171-90033	HP OSF/Motif Programmer's Reference	Yes
	B1171-90034	HP OSF/Motif Programmer's Guide	Yes
#OBM		Starbase Programming	
	98592-90026	Starbase Device Drivers Library	Yes
	98592-90031	Starbase C Pocket Reference	N/A
	98592-90041	Starbase FORTRAN Pocket Reference	N/A
	98592-90048	Starbase Beginner's Guide	Yes
	98592-90051	Starbase Pascal Pocket Reference	N/A
	98592-90068	Starbase Reference	Yes
	98592-90081	Starbase Graphics Techniques	N/A
	98592-90093	HP Fast Alpha/Font Manager Programmer's	Yes
	98885-90002	Starbase Radiosity and Ray Tracing	Yes
	B2361-90000	Starbase Display List Programmer's	Yes
#OBJ		CD-ROM Complementary Documentation	
	98592-90031	Starbase C Pocket Reference	N/A
	98592-90041	Starbase FORTRAN Pocket Reference	N/A
	98592-90045	Starbase Pascal Pocket Reference	N/A
	98592-90081	Starbase Graphics Techniques	N/A
	D-11272-B	Managing Software Products with Network License System	N/A
	D-11895-C	Managing NCS Software	N/A
	B1171-90027	X Toolkit Intrinsics Programming	N/A
	B1171-90028	X Toolkit Intrinsics Reference	N/A
	B1013-91001	Installing and Administering NFS - Addendum for automounter	N/A
	B2355-90016	Using the Audio Application Program Interface	N/A
	B2370-90000	EISA Configuration Utility for HP-UX	Yes
	92431-90005	HP Pascal/HP-UX Reference	Yes
	92431-90006	HP Pascal/HP-UX Programmer's Guide	Yes
	92431-90007	HP Pascal/HP-UX Quick Reference	Yes

HP-UX and HP BASIC/UX

HP-UX 8.0 Languages

Product/ Opt. No.	Component	Description	U.S. List Price
B2371A		License-to-use C/ANSI C.	\$1,500.
Opt. OB1		Hardcopy Manuals.	\$195.
Opt. AAO		1/4-inch Cartridge Tape Media.	\$195.
Opt. AAU		CD-ROM Certificate.	N/C
B2372A		License-to-use FORTRAN 77.	\$1,500.
Opt. OB1		Hardcopy Manuals.	\$195.
Opt. AAO		1/4-inch Cartridge Tape Media.	\$195.
Opt. AAU		CD-ROM Certificate .	N/C
B2373A		License-to-use Pascal.	\$1,500.
Opt. OB1		Hardcopy Manuals.	\$195.
Opt. AAO		1/4-inch Cartridge Tape Media.	\$195.
Opt. AAU		CD-ROM Certificate.	N/C
B2400A		License-to-use HP C++ 2.1.	N/C
Opt. OAN		1-seat License-to-use.	\$1,700.
Opt. OA9		10-seat License-to-use.	\$13,600.
Opt. OAG		5-seat License-to-use.	\$29,750.
Opt. OAA		50-seat License-to-use.	\$51,000.
B2401A		HP C++ 2.1 Media and Manuals.	N/C
Opt. AAO		1/4-inch Cartridge Tape Media.	\$240.
Opt. AAU		CD-ROM Certificate.	N/C
B1694A		License-to-use C++ Developer.	N/C
Opt. OAN		1-seat License-to-use.	\$2,000.
Opt. OA9		10-seat License-to-use.	\$18,000.
Opt. OAG		25-seat License-to-use.	\$37,500.
Opt. OA		A50-seat License-to-use.	\$60,000.
B1695A		C++ Developer Media and Manuals.	N/C
Opt. AAO		1/4-inch Cartridge Tape Media.	\$125.
Opt. AAU		CD-ROM Certificate.	N/C

Windows Software

Product/ Opt. No.	Component	Description	U.S. List Price
B2360A		Windows/9000 Window System.	\$1,300.
Opt. AAO		Cartridge tape, 16-track, 1/4-inch.	\$195.
Opt. AAU		CD-ROM Certificate.	N/C
Opt. OBJ		1 Hardcopy Manuals.	\$300.

HP-UX and HP BASIC/UX

HP BASIC/UX Language

The HP BASIC/UX Programming Language for Unix. The HP BASIC/UX environment retains the friendliness and high performance instrument control capabilities of

HP BASIC/WS, yet delivers the many significant features found in HP-UX that allow you to develop and execute sophisticated instrument control applications.

HP BASIC/UX Language (for Unix 8.0 Operating System)

Product/ Opt. No.	Component	Description	U.S. List Price
E2040L		HP BASIC/UX 6.2 License to Use on Series 9000/300 running HP UX 8.0 operating system. Does not include Media and Documentation.	\$1200.
Opt. 0CC		Upgrade from previous version of HP BASIC/UX	\$700.
E2040A		HP BASIC/UX 6.2 media/documentation Requires concurrent purchase of E2040L. *	N/C
		<i>Note: Must specify one media option.</i>	
Opt. AA0		Software on 1/4 inch tape	\$420.
Opt. AAF		CD-ROM media	\$420.
Opt. AAH		DDS media	\$420.
E2040K		HP BASIC/UX 6.2 Documentation Only *	\$300.
		<i>Note: Must specify one media option.</i>	

HP BASIC/UX Language (for Unix 7.X Operating System)

Product/ Opt. No.	Component	Description	U.S. List Price
98796L		HP BASIC/UX 5.52 License to Use on Series 9000/300. Supported on Unix 7.X Operating System.	\$1425.
98796A		HP BASIC/UX 5.52 Media/Documentation	N/C
Opt. 022		Software on 1/4 inch tape	\$495.

HP BASIC/UX 5.52 Language Documentation Only

Product/ Opt. No.	Component	Description	U.S. List Price
98796K		HP BASIC/UX 5.52 Manual Kit, does not include a license or media.	\$375.

* Includes HP BASIC 6.2 Core manuals, as well as HP BASIC/UX 6.2 Additional Manuals. (see Configuration Advisor section of this document).

HP BASIC/WS 6.2

HP BASIC/WS Language Revisions, HP BASIC Plus and Related Products

HP BASIC/WS is a simple and straightforward software development environment that is ideal for automated test and measurement applications. HP BASIC/WS has a powerful command language, a highly optimized program development environment, easy-to-use graph-

ics, exceptional device I/O and high-speed computation. Real and complex math operations support the use of floating point coprocessors. HP BASIC programs can call compiled subprograms for further improvements in speed critical areas.

HP BASIC Language (Revision 6.2)

Product/ Opt. No.	Component	Description	U.S. List Price
98616L		HP BASIC/WS 6.2 License to use for HP 9000 Series 200 and 300 computers. Does not include media and documentation.	\$675.
Opt. 001		Upgrade from a previous version of HP BASIC/WS	-\$400.
98616B		HP BASIC 6.2 RAM Media and Documentation * for HP 9000 Series 200 and 300 computers. Requires concurrent purchase of 98616L License to use HP BASIC 6.2.	N/C
98616BJ		Same as 98616B but includes Japanese language binaries and documentation. Customer must order Option 045.	
MUST Specify one media option:			
Opt. 042		Software on 5.25-inch media	\$420.
Opt. 044		Software on 3.5-inch single sided media	\$420.
Opt. 045		Software on 3.5-inch double sided media	\$420.
98616K		HP BASIC 6.2 Language System Documentation. * Does not include media, or a license.	\$300.
98616KJ		HP BASIC 6.2 Language System Japanese Documentation. Does not include media, or a license.	\$275.

* Includes HP BASIC 6.2 Core manuals, as well as HP BASIC/WS 6.2 Additional Manuals. (see the Configuration Advisor section of this document).

HP BASIC/WS 6.2

Related Products for HP BASIC 6.X

Product/ Opt. No.	Component	Description	U.S. List Price
98616S		HP BASIC/WS Revision 6.X CSUB Utilities for HP 9000 Series 200 and 300 Computers and includes media and documentation.	\$340.
Opt. 001		HP BASIC 6.X CSUB Utilities upgrade from a previous version of HP BASIC CSUB Utilities.	-\$200.
98618B		HP BASIC 6.2 Compiler for HP 9000 Series 200 and 300 computers. Include both 5.25- and 3.5-inch media	\$600.
Opt. 001		HP BASIC 6.2 Compiler upgrade from a previous version of HP BASIC Compiler.	-\$200.
98616D		DOS file system for HP BASIC/WS 6.2 Includes 3.5-inch Media and documentation. Allows access to DOS formatted disks from HP 9000 Series 200 and 300 computers using HP BASIC/WS 6.2.	\$450.

HP BASIC Plus for HP BASIC 6.2

E2160A HP BASIC Plus license-to-use. HP BASIC Plus is an HP BASIC binary providing human interface graphics commands and Online Help for HP BASIC. Media and documentation must be ordered via the options listed below.

Supported on HP BASIC revision 6.2 or greater. HP BASIC Plus is not supported on the HP 9000 Series 200. HP BASIC Plus requires an additional 700 Kb of RAM; minimum system RAM is 2 Mb.

HP BASIC Plus for HP BASIC 6.2

Product/ Opt. No.	Component	Description	U.S. List Price
		HP BASIC Plus for HP BASIC 6.2 or greater.	
E2160A		License-to-Use. (1 - 9)	\$350.
		License-to-Use. (10 - 24)	\$245.
		License-to-Use. (25 - 49)	\$230.
		License-to-Use. (50 - 99)	\$210.
		License-to-Use. (100 - greater)	\$195.
E2160AJ		Same as E2160A only Japanese version.	
		Note: The price listed is the single copy price for the quantity in parenthesis. These prices are not discountable.	
Opt. AA8		Software on 3.5-inch double sided media and documentation (Option applies to HP BASIC/WS or the Measurement Coprocessor product. Option does not support HP BASIC/UX)	\$100.
Opt. AA9		Software on 5.25-inch DOS format 1.2 Mb media and documentation (Option applies to the Measurement Coprocessor products only. Option does not apply to HP BASIC/UX and HP BASIC/WS)	\$100.
Opt. AAF		CD-ROM media and documentation (Option applies to HP BASIC/UX only)	\$100.
		Specify only one media option:	
Opt. AA0		Software on 1/4-inch tape and documentation (Option applies to HP BASIC/UX Only)	\$100.
Opt. AAH		DDS media and documentation (Option applies to HP BASIC/UX only)	\$100.

Other HP BASIC/WS Products and Pascal Workstation

HP BASIC Language (Revision 5.13)

Product/ Opt. No.	Component	Description	U.S. List Price
98616A		HP BASIC/WS 5.13 License -based Basic for HP 9000 Series 200 and 300 computers. Includes system media and documentation.	N/C
MUST Specify one media option:			
Opt. 042		Software on 5.25-inch media	\$1,300.
Opt. 044		Software on 3.5-inch single-sided media	\$1,300.
Opt. 045		Software on 3.5-inch double-sided media	\$1,300.
May Specify this option:			
Opt. 618		Add HP BASIC/WS 5.X Compiler (Includes 3.5- and 5.25-inch Media/Documentation)	\$600.

HP BASIC Language Compiler (Revision 5.X)

Product/ Opt. No.	Component	Description	U.S. List Price
98618A		HP BASIC 5.X Compiler for HP 9000 Series 200 and 300 computers.	N/C
MUST Specify one media option:			
Opt. 042		Software on 5.25-inch media	\$750.
Opt. 044		Software on 3.5-inch single-sided media	\$750.
Opt. 045		Software on 3.5-inch double-sided media	\$750.

Pascal 3.2 Language System

Product/ Opt. No.	Component	Description	U.S. List Price
98617A		Pascal 3.2 Language System. Includes: System disk set and Pascal 3.2 Manual Kit.	N/C
Opt. 001		Upgrade from previous version of Pascal Language System.	-\$400.
Note: Must specify one of the following media options:			
Opt. 042		Software on 5.25-inch disk.	\$1,100.
Opt. 044		Software on 3.5-inch disk, single-sided format on double-sided media.	\$1,100.
Opt. 045		Software on 3.5-inch disk, double-sided format.	\$1,100.
98617R		Pascal 3.2 - Right-to-reproduce one copy. (for Resellers)	\$940.
Opt. 100		Delete Manuals.	-\$110.
98617E		Pascal 3.2 - Right-to-execute. (for Resellers)	\$375.
Opt. 090		Additional 99 copies of Pascal 3.2 Right-to-execute.	\$6,920.
98617-87901		Pascal 3.2 Documentation Kit (order from DMK).	\$350.

Notes:

Measurement & Industrial Automation Enabling Software

RTAP/Plus

RTAP/Plus is a unique industrial automation enabler software toolkit that accelerates the development of new systems for time-critical, enterprise-wide applications.

RTAP/Plus is an open system design. And fully compatible with industry standards based on the UNIX operating system, the X window system, TCP/IP networking and OSF/Motif.



RTAP/Plus

Product/ Opt. No.	Component	Description	U.S. List Price
B2770A		RTAP/Plus for Series 300 Must order if this is a new order Basic Run-Time License	
Opt. UAU			\$2,000.
		Must order if on a node :	
Opt. 100		Data Collection and Processing	\$3,000.
		Order to meet the database point ct. of the Network :	
Opt. 208		Block of 8K points	\$2,800.
Opt. 216		Block of 16K points	\$5,000.
Opt. 264		Block of 64K points	\$18,000.
		Select for device interfaces required :	
Opt. 401		HP 48000 Series RTU	\$4,000.
Opt. 402		HP 3852 DAC unit	\$4,000.
Opt. 403		Allen-Bradley DH Plus	\$4,000.
Opt. 404		Modicon Modbus	\$4,000.
Opt. 405		Allen-Bradley Network DTL	\$4,000.
Opt. 406		Siemens S5 H1	\$4,000.
		Select if display tools are required :	
Opt. 500		Display Tools	\$4,000.
		Select if configuration tools required :	
Opt. 600		Configuration Tools	\$3,000.
		Select if program development required :	
Opt. 900		Program Development	\$16,000.
		Select Media type:	
Opt. AAH		DDS tape	N/C
Opt. AAO		1/4 Inch tape	N/C
		Note: The program development option 900 includes a full set of manuals. If additional manuals are required select any combination.	
Opt. OBA		Full Documentation set	\$600.
Opt. OBF		Programming Documentation set	\$300.
Opt. OBL		User Environment set	\$300.

Measurement & Industrial Automation Enabling Software

HP VEE (Visual engineering environment)

HP VEE is HP's visual engineering environment designed to meet the needs of engineers and scientists who can now develop test software without writing code. From HP VEE you select the objects necessary for your solutions and link them together creating an executable block diagram. With HP VEE, you spend time concentrating on engineering — not programming.

HP VEE is a software platform that includes two separate products: HP VEE-Engine and HP VEE-Test. HP VEE-Engine allows analysis and display of data. This data can be obtained from a file, input from a user, or generated mathematically.

HP VEE-Test is designed for the measurement automation professional. It includes everything provided in

HP VEE-Engine plus visual elements for HP-IB, Serial, and GPIO bus communication (instrument drivers, Direct I/O, Bus I/O Monitor, etc) and the capability to communicate with HP BASIC/UX. Both HP VEE products run under HP-UX revision 7.X or greater and X Windows revision 11.4 or greater.

HP VEE

Product/ Opt. No.	Component	Description	U.S. List Price
E2100A		HP VEE-Engine (300) License to Use. (1 - 24) License to Use. (25 - 49) License to Use. (50 - 99) License to Use. (100 - greater)	 \$895. \$627. \$582. \$537.
Note: The price listed is the single copy price for the quantity in parenthesis.			
MUST Specify one media option (for first time orders):			
Opt. AA0		1/4 inch tape	\$50.
Opt. AAF		CD-ROM	\$50.
Opt. AAH		DDS	\$50.
MUST Specify one documentation option (for first time orders):			
Opt. ABA		English documentation	\$50.
Opt. ABD		German documentation	\$50.
Opt. ABF		French documentation	\$50.
Opt. ABJ		Japanese documentation	\$50.
E2110A		HP VEE-Test (300 DIO) License to Use. (1 - 9) License to Use. (10 - 24) License to Use. (25 - 49) License to Use. (50 - 99) License to Use. (100 - greater)	 \$4900. \$3430. \$3185. \$2940. \$2695.
Note: The price listed is the single copy price for the quantity in parenthesis.			
MUST Specify one option (for first time orders):			
Opt. AA0		1/4 inch tape	\$50.
Opt. AAF		CD-ROM	\$50.
Opt. AAH		DDS	\$50.
MUST Specify one documentation option (for first time orders):			
Opt. ABA		English documentation	\$50.
Opt. ABD		German documentation	\$50.
Opt. ABF		French documentation	\$50.
Opt. ABJ		Japanese documentation	\$50.

Measurement & Industrial Automation Enabling Software

HP VEE (continued)

Product/ Opt. No.	Component	Description	U.S. List Price
May Specify this option for current HP VEE-Engine owners:			
Opt. 0HF		Trade-in credit for HP VEE-Engine for the purchase of HP-VEE Test	\$800.
Note: All 1st time HP VEE-Test orders require: The License product (ie, E2110A); a Media Option (ie, Opt. AA0); and a Documentation Option (ie, Opt. ABA). Of course, repeat orders do not require media or documentation.			
Note: Both HP VEE products need at least 12 Mb RAM for an X Windows-based system (16 Mb with HP VUE), and 6 Mb disk space for VEE-Engine and 16 Mb for VEE-Test.			
E2115A		HP VEE-Test/RunOnly	
		License to Use. (1 - 19)	\$1,750.
		License to Use. (20 - 49)	\$1,488.
		License to Use. (50 - greater)	\$1,225.
Note: The price listed is the single copy price for the quantity in parenthesis.			
MUST Specify one media option (for first time orders):			
Opt. AA0		1/4-inch tape	\$50.
Opt. AAH		DDS	\$50.

HP ITG - Interactive Test Generator

Product/ Opt. No.	Component	Description	U.S. List Price
E2000A		HP Interactive Test Generator (HP ITG) facilitates HP BASIC test development. ITG is a Mouse-driven interface designed for controlling instruments and automatically generates HP BASIC code. A set of documentation is included. Must also purchase E2001A Instrument Drivers.	\$995.
MUST Specify one media option:			
Opt. AA0		Software on 1/4-inch tape	N/C
Opt. AA6		Software on 5.25-inch flexible disks	N/C
Opt. AA8		Software on 3.5-inch double-sided disk	N/C
May Specify this localization option:			
Opt. ABJ		Adds Japanese localized documentation	N/C
E2001A		HP Interactive Test Generator (HP ITG) Instrument Drivers for use with HP Interactive Test Generator product number E2000A.	\$495.
MUST Specify one media option:			
Opt. AA0		Software on 1/4-inch tape	N/C
Opt. AA6		Software on 5.25-inch flexible disks	N/C
Opt. AA8		Software on 3.5-inch double-sided disk	N/C

SICL C-Language Library

Product/ Opt. No.	Component	Description	U.S. List Price
E2092A		SICL C-Language Application Development Library Media and Documentation for HP 9000 for Series 300 V/360 and V/382 controllers.	\$500.
MUST Specify one media option:			
Opt. AAO		1/4-in cartridge tape	N/C
Opt. AAF		DDS tape	N/C
Opt. AAH		CD-ROM	N/C

Measurement & Industrial Automation Enabling Software

HP FTM - Functional Test Manager for HP BASIC

HP 34806G Functional Test Manager (FTM) application software accelerates test development by minimizing the time required to write test software for your manufacturing process. FTM has a flexible framework

in which you fill in forms that are executed in conjunction with HP BASIC subprogram calls; provides test sequencing, instrument control, and it's easy to add application specific code.

HP FTM for HP BASIC

Product/ Opt. No.	Component	Description	U.S. List Price
34806G		License-to-use for HP Functional Test manager for HP BASIC. Media and manual s must be ordered seperately. Does not include a seat in the FTM class	
		License-to-use (1-9)	\$3,450.
		License-to-use (10 -24)	\$2,415.
		License-to-use (25 -49)	\$2,242.
		License-to-use (50 - 99)	\$2,070.
		License-to-use (100 and up)	\$1,897.
		Note: The price listed is the single copy price for the quantity in parenthesis.	
Opt. AA0		1/4" tape and manual for HP FTM running on HP BASIC/UX. Does not include a seat in the FTM training class.	\$1,500.
Opt. AA8		LIF format 3.5 inch double-sided disks and manuals for the HP FTM running on HP BASIC/WS and on HP BASIC on the DOS Measurement Coprocessor products. Does not include a seat in the FTM training class.	\$1,500.
		Note: Order FTM training class seperately as 34806G + 24D.	

SRM/UX — Shared Resource Manager on HP-UX

SRM/UX provides benefits of extended networking capabilities for HP BASIC/WS and Pascal workstations. These capabilities include diskless booting, file and peripheral sharing and the ability for test stations to be integrated within

a standard network. Product includes 1/4-inch tape media and documentation for SRM/UX server software. Up to 255 clients can be supported. Client Software is included with individual clients (i.e. HP BASIC/WS).

SRM/UX

Product/ Opt. No.	Component	Description	U.S. List Price
E2085B		SRM/UX Shared Resource Manager Server	
Opt. AA0		1/4" tape for SRM/UX media and documentation	\$4,750.
Opt. AAF		CD-ROM for SRM/UX media and documentation	\$4,750.
Opt. AAH		DDS tape for SRM/UX media and documentation	\$4,750.

Software Support

HP 9000 Software Support Program

HP offers you a complete contractual support program designed to provide you with an

appropriate level of support for your software.

HP TeamLine

HP TeamLine software support service provides an assigned HP support consultant to help you maximize the effectiveness of your people, and improve the productivity of your system. Your HP consultant develops an understanding of your

operating environment, applications and business goals. That knowledge is combined with a detailed understanding of HP products to result in effective personal assistance tailored to your specific environment.

What HP TeamLine Includes:

- Account-assigned support consultant
- Personalized technical assistance and services
- Access to HP technical specialists
- Proactive support planning
- Added services for HP application software
- All the features of HP ResponseLine

HP ResponseLine

HP ResponseLine provides you with access to the HP Response Centers which are available with rapid problem solving assistance. This enables you to

call the HP Response Center with questions related to your operating system and software applications.

What HP ResponseLine Includes

- Access to the HP Response Centers for fault isolation and problem solving assistance
- Guaranteed two hour call return
- Electronic access to product and support information
- Electronic access to software patches
- All the features of HP BasicLine

Software Support

HP BasicLine

HP BasicLine provides on-line access to a database of current, comprehensive support information along with detailed descriptions of problems and recommended solutions. This service also includes the right

to use updates for all licensed software on a single system. This allows you to install and use updates as they become available, ensuring that your software and documentation are kept current.

What HP BasicLine Includes

- Right-to-use software updates for licensed software products
- On-line access to training schedules, product and support news
- On-line access to comprehensive problem solving information

HP Update Materials

This service provides software and documentation updates for your operating system and applications. It also includes

Software Status Bulletins and the HP Communicator as they become available.

HP Software Support Services

	TeamLine	ResponseLine	BasicLine	OS Materials	Appl Materials
Processor/User Option	H2010A +T00	H2011B +H00	H2012A +L00	H2069A +S00*	H2014A +S00
0N1 Software Dev	160	70	N/A	N/A	N/A
0N2 300/400:2 (8.0)	170	60	30	45	20
0N3 300/400:32 (8.0)	320	90	40	45	20
0JG 300/400 Discless 8.0	N/A	N/A	20	N/A	N/A
* HP Operating System Updates with CD-ROM Documentation					
Application Support Option					
0F8 PC Support 64, 512 users	250	190	N/A		
0LG PC Support 8, 32 users	195	100	N/A		
0F9 ME Support	160	90	N/A		
0FC EE Support (A)	165	90	N/A		
0FD EE Support (B)	495	255	N/A		
0FF Factory Auto	405	220	N/A		
0L6 Case Tools	190	110	N/A		
0L7 OpenView End user support	135	90	N/A		
All prices indicate monthly maintenance prices					

T&M (MSD) Software Support Products - Instructions and US Price Guide - February 1992

Prices Per Month

Family A. BASIC Language Workstation		RCS	5"	3"s	3"d	LTU
		H00	UA6	UA7	UA8	U00
BASIC Workstation	98616B	58	33	33	33	25
BASIC+	E2160A	incl.	n/a	17	17	9
Compiler	98618B	incl.	25	25	25	17
CSUB Util	98616S	incl.	17	17	17	9
DFS Binary	98616D	incl.	n/a	n/a	n/a	n/a

Family B. BASIC/UX		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
BASIC/UX	E2040A	42	50	50	50	42
BASIC+	E2160A	incl.	17	n/a	17	9

Family C. ITG		RCS	5"	3"d	Tape	LTU
		H00	UA6	UA8	UAC	U00
ITG	E2000A	33	33	33	33	25
ITG Drivers	E2001A	incl.	incl.	incl.	incl.	incl.

Family D. SRM/UX		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
SRM/UX	E2085A	42	50	50	50	42

Family E. VEE-Engine		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
VEE-Engine (S/300)	E2100A	33	25	25	25	21
VEE-Engine (S/700)	E2101A	incl.	n/a	25	25	21

Family F. VEE-Test		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
VEE-Test (S/300)	E2110A	42	50	50	50	42
VEE-Test (S/700)	E2111A	incl.	n/a	50	50	42
VEE-Run Only (S/300)	E2115A	incl.	25	25	n/a	21

Family G. Functional Test Manager		RCS	5"	3"d	Tape	LTU
		H00	UA6	UA8	UAC	U00
FTM	34806G	42	n/a	33	33	29

Family H. SICL		RCS	Tape	DAT	CD	LTU
Standard Instrument Control Library		H00	UAC	UAH	UAF	U00
SICL /700	E2091A	25	n/a	17	17	incl.
SICL /300	E2092A		17	17	17	incl.

Rev. 3/16/92

Products:

- +H00 T&M Response Center Support Contract
- +U00 LTU - License To Use Software Materials
- +UA6 Software Updates on 5" Floppy Disk
- +UA7 Software Updates on 3.5" -Single Sided Floppy
- +UA8 Software Updates on 3.5" Double-Sided Floppy
- +UAC Software Updates on 1/4" Cartridge Tape
- +UAF Software Updates on CD-ROM
- +UAH Software updates on DAT Tape
- +P00 Additional Response Center Caller

Legend:

- incl. This service is included in the above product
- n/a SW Updates not available in this media size
- ## US Contract Price - per month

Ordering Instructions:

Support Products are specified by adding the T&M base product + the support suffix (+H00, +UAC, etc.).

E2040A +UAC = BASIC/UX on 1/4" Tape, incl. LTU

Note that the entire product no. INCLUDING localization option (ie. #ABA) must be specified.

E2100A #ABA +H00 = T&M Resp Ctr for VEE Family

Specifying Quantity (Units) and Contract Length

In the box for the required service enter the number of support contracts (units, copies, licenses, etc.) required.

At the top of the worksheet enter the term of contract - usually 12 Months. Order Processing will then multiply the units (contracts) X the term to obtain total months.

For 5 BASIC/WS LTU (+U00) contracts each 1 year long enter a '5' in the 98616B box under the U00 column.

Term Of Contract (Months) =

FE Name:	Company Name:
T&M SEDM	Address 1:
Quote Number	Address 2:
Quote Revision	City, State ZIP:
Sales Order #	Caller #1:
	Caller #2:
	Requested System Handle:

Family A. BASIC Language Workstation		RCS	5"	3"s	3"d	LTU
		H00	UA6	UA7	UA8	U00
BASIC Workstation	98616B					
BASIC+	E2160A	incl.		n/a		
Compiler	98618B	incl.				
CSUB Util	98616S	incl.				
DFS Binary	98616D	incl.	n/a	n/a	n/a	n/a

Notes:

1. Response Center Support - 98616B+H00 includes phone-in support for ALL Basic Workstation products.
2. DFS Binary from SSS Co. is not available on software support. Updates must be purchased from SSS.
3. BASIC+ for workstation must be ordered on floppy disk. Cart. Tape contains BASIC+ for BASIC/UX only.

Family B. BASIC/UX		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
BASIC/UX	E2040A					
BASIC+	E2160A	incl.		n/a		

Notes:

Family C. ITG		RCS	5"	3"d	Tape	LTU
		H00	UA6	UA8	UAC	U00
ITG	E2000A					
ITG Drivers	E2001A	incl.	incl.	incl.	incl.	incl.

Notes:

1. Single-sided media for ITG has been obsoleted due to the large number of disks required.

Family D. SRM/UX		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
SRM/UX	E2085B					

Notes:

Family E. VEE-Engine		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
VEE-Engine (S/300)	E2100A					
VEE-Engine (S/700)	E2101A	incl.	n/a			

Notes:

1. Support Services MUST be specified using the VEE localization option: ie. E2100A #ABA +H00

Family F. VEE-Test		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
VEE-Test (S/300)	E2110A					
VEE-Test (S/700)	E2111A	incl.	n/a			
VEE-Run Only	E2115A	incl.			n/a	

Notes:

1. Phone support for VEE-Run Only must be ordered as E2110A+H00 to receive Family-F support.
2. Remember to specify localization option: (ie. #ABA)
2. VEE-RunOnly is on Cart. and DAT TAPE ONLY.

Family G. Functional Test Manager		RCS	5"	3"d	Tape	LTU
		H00	UA6	UA8	UAC	U00
FTM	34806G		n/a			

Notes:

Family H. SICL		RCS	Tape	DAT	CD	LTU
		H00	UAC	UAH	UAF	U00
Standard instrument Control Library						
SICL /300	E2091A					incl.
SICL /700	E2091A		n/a			incl.

Notes:

The SICL product includes its own implied License To Use (LTU) and can be freely copied by the customer - therefore the LTU (+U00) product is stated as "incl."

A. Response Center Support (+H00) DOES NOT include software updates. These must be ordered as a second item +UAX, or U00.

B. Enter all quantities as units, and indicate contract length (12 Mos.) at top of worksheet.

HP-UX Software Support Quote Worksheet

FE Name	_____	Company Name:	_____
T&M SEDM	_____	Mailing Address 1	_____
Original Quote Number	_____	Mailing Address 2:	_____
Quote Revision	_____	City, State, ZIP Code:	_____
Sales Order Number	_____	Caller No. 1:(Name/Phone)	_____
		Caller No. 2:(Name/Phone)	_____
		Requested System Handle:	_____

Step 1. Select Level Of Support		Enter Length of Contract in Months		Notes:
		Qty	Mos. =	
BasicLine (License. To Copy Update SW)	H2012A+L00			Qty. = # of Workstations or Diskless Nodes. Mos. = Term of Contract. 1. Enter Qty. of workstations requiring BasicLine (Lic. To Copy) support. 2. Enter Qty. of Response Center contracts desired. (Usually 1) 3. Select US/Canada, OR Europe/ICON, NOT BOTH. 4. Multiply Qty (Workstations) X Mos. (Term) and enter Total Months.
ResponseLine - North America	H2011B+H00			
ResponseLine - Europe and ICON.	H2011A+H00			
Step 2. Select Operating System		Check (X) one OS Option ONLY		Notes: 1. ALL Workstations must be either 2-user or 8-user hp-ux do not mix. Use a second quote worksheet if required. 2. If C Program development phone support is required also, Check box for #ON1 also. Language SW Media is ordered in step 5.
B2352A HP-UX Runtime - 2 User	#ONA			
B2353A HP-UX Runtime - 8 User	#ONB			
C Developer's Response Center Support	#ON1			
Step 3. HP-UX Update Media Option		Check (X) for media option		Notes: 1. H2069A - includes Install Instructions AND complete HP-UX Manuals on CD-ROM. #AAF = Complete CD-ROM System - SW and Manuals #AA0 = SW on 1/4" Tape, and Manuals on CD-ROM 2. For Paper Manual Sets order B2355A in Step 4.
H2069A Includes Manuals on CD-ROM.				
SW on CD-ROM (also)	H2069A+S00	#AAF		
SW on 1/4" Cartridge Tape	H2069A+S00	#AA0		

Rack Mounting Equipment

362, 382 Rackmounting

Product/ Opt. No.	Component	Description	U.S. List Price
5062-3974		Rack-mounting flange kit for Series 362/382 Controllers or 362/382 DIO and DIO-II expanders. Contains two metal flanges and mounting screws.	\$35.
5062-3975		Rack-mounting flange kit with handles for Series 362/382 Controllers or 362/382 DIO and DIO-II expanders. Contains two metal flanges, two handles, and mounting screws.	\$80.
E3663A		Stationary rails recommended for E366x racks	\$35.
35199B		Monitor/14" VGA Rackmount Kit for use with the D1182A monitor (also requires the 12679C Rail Kit)	\$125.
E3901A		Rack Kit for D1194A 14" VGA Display	\$200.
12679C		Rail Kit for use with the 35199B Rackmount Kit	\$50.
E3902A		Monitor/16" Rackmount Kit for use with the 382 16" monitor (no rails required)	\$290.
12131A		Keyboard/Retractable Rackmount with lock	\$360.
E3900A		Keyboard/fixed keyboard Rackmount	\$75.

R/362, R/382, R/382U AND R/332 Flange Kits

Product/ Opt. No.	Component	Description	U.S. List Price
A1309A		Rack-mounting flange kit for Series R/332, R/362, R/382 and R/382U Controllers. Contains two metal flanges and mounting screws.	\$65.
E3663A		Stationary rails recommended for E366x racks	\$35.
12679B		Stationary rails recommended for non-E366x racks	\$70.
1494-0059		Standard slide kit	\$115.
1494-0063		Standard tilting slide kit	\$200.

332/380 Rackmounting

Product/ Opt. No.	Component	Description	U.S. List Price
98569A		SPU Rackmount Kit for 332 and 380 Controllers with or without 1 expander.	\$250.
12131A		Keyboard/Retractable Rackmount with lock	\$360.
E3900A		Low cost keyboard Rackmount	\$75.
E3903A		Monitor/16" Rackmount Kit for 98785A	\$290.

Rack Mounting Equipment

New 19" EIA Racks

These new EIA 19" racks have been developed specifically for Hewlett-Packard Test and Measurement and Industrial

Automation applications. These racks offer easier configuration and assembly than previous rack products.

New 19" EIA Racks

Product/ Opt. No.	Component	Description	U.S. List Price
E3660A		1100mm Rack, vented door, solid top	\$750.
E3661A		1600mm Rack, vented door, vented top	\$830.
E3662A		2000mm Rack, vented door, vented top	\$870.

Common options for Racks

Product/ Opt. No.	Component	Description	U.S. List Price
Opt. ABA		"US English Localization Option "required with PDU option	N/C
Opt. ABB		"European English Localization Option "required with PDU option	N/C
Opt. OE3		"220/240V" Substitutes 220V IEC-320 outlets and 220V fan for US Rack	N/C
Opt. 1FA		"Rack Cabinet Fan" Adds 200CFM top mounted extractor fan. Must also order PDU option (& localization option). Also provided vented top cap instead of solid top cap on the E3660A 1100mm Rack.	\$100.
		"PDU" Adds 10 outlet 16 Amp. PDU with front panel switch. Required localization option be specified. In USA - 115V PDU with NEMA outlets supplied. (except with Option OE3) In Europe - 220V PDU with IEC-320 outlets supplied. Up to two of this option can be specified for total of 32 Amps, 20 outlets.	\$140.
Opt. 1FC		Add front door	\$290.
Opt. 1FD		"Rack Tie Together Kit"Deletes both side panels, adds tie together kit.	N/C

19" Rack Accessories

Product/ Opt. No.	Component	Description	U.S. List Price
E3666A		19" plain shelf	\$60.
E3900A		Low cost keyboard Rackmount	\$75.
E3902A		Monitor/16" VGA Rackmount Kit (for use with the 382 16" Monitor - no rails required)	\$290.
E3903A		Monitor/16" Rack Mount Kit for use with the 98785A	\$290.
E3663A		Stationary rails	\$35.
E3668A		Feed through panel blank	\$45.
E3669A		Feed through panel BNC (six connector)	\$90.
46298M		Drawer, 5.25" high	\$235.
46298N		Worksurface, adjustable	\$270.
E3667A		500 CFM rack-mountable intake fan.	\$300.
E3901A		14" VGA rackmount kit for D1194A 14" VGA Display	\$200.

Previous Rack Cabinets

Product/ Opt. No.	Component	Description	U.S. List Price
92211L		Taboret Cabinet Rack for Series 300 and 325mm-wide peripherals	\$310.
92211M		Small Taboret Cabinet Rack for Series 300 and 325mm-wide peripherals	\$250.
92211R		HP Design Plus Mobile Mini-rack for 325mm-wide peripherals	\$685.

For more information on the new 19" Hewlett-Packard Racks and Rackmount Accessories, ask for part number 5091-0896E

Training Products



Training Classes

Product/ Opt. No.	Component	Description	U.S. List Price
HP 50011C		HP-IB Instrument Programming Using Series 200/300 HP BASIC Audience: System engineers and programmers performing measurement and control task. Objective: Learn to use HP 9000 Series 200 and Series 300 controllers and the HP BASIC programming language to operate an HP-IB instrument. Understand computer interface concepts and applications. Run subprograms. Practice using programming and debugging tools. Understand unified and buffered input/output. Understand interrupt concepts and applications. Prerequisites: HP 98501B and HP 98510D or equivalent knowledge Length: 4 days	\$1,295.
HP 98880B		HP BASIC/UX Programming and Operating Course Audience: Experienced HP BASIC programmers Objective: Learn multi-tasking and windowing techniques and how to use HP-UX operating system utilities. Understand mass storage, input and output and graphics techniques, and CSUBS and the compiler. Learn X Window System concepts and multi-tasking techniques. Practice HP-UX escape, customization and administration. Prerequisites: Courses HP 98501B and HP 98510E or course HP 51489B or HP51434B Length: 3 days	\$850.
HP 98510D		HP 9000 Series 200/300 BASIC Operating and Advanced Programming Audience: Experienced programmers Objective: Learn data types and representation. Use mass storage, files, and management tools. Understand input/output concepts. Write graphics programs. Prerequisites: Course HP 98501B or equivalent HP 9000 Series 200 or 300 BASIC programming experience. Length: 5 days For registration and information call: US-1-800-472-5277 Canada (416-678-9430)	\$1,395.
HP E2100A+24D		Introduction to HP-VEE-Engine Audience: Scientist and engineers Objective: Learn to create models efficiently using the HP Visual Engineering Environment. Understand the fundamentals of HP VEE and HP VEE devices. Understand application development and interprocess communications with HP VEE. Prerequisites: Programming expertise Length: 3 days	\$850.
HP E2110A+24D		Introduction to HP-VEE-Test Audience: Scientist and engineers Objective: Understand the fundamentals of HP VEE and HP VEE devices. Understand application development and interprocess communication with HP VEE. Practice instrument control. Prerequisites: Programming expertise Length: 5 days	\$1,395.
HP 34806G+24D		Developing Test Plans Using FTM/300 Audience: Test engineers, test technicians, and original equipment manufacturers who develop electronics manufacturing test software Objective: Learn to develop, assemble, and debug a test plan. Practice optimizing test plan execution. Understand process analysis, statistical quality control and data communications. Prerequisites: Courses HP 98510D and HP 50011C or equivalent knowledge Length: 3 days	\$1,300.
HP 82302A		Self-Study Using HP BASIC for Instrument Control Audience: Application programmers, technicians and engineers Objective: Practice handling numbers, strings, and arrays. Write branches, subroutines, and subprograms. Understand addressing and controlling instruments and displaying data with graphics. Prerequisites: General understanding of computers and instruments Length: 55 hrs. For self paced courses call 1-800-538-8787 in the US 1-800-387-3154 in Canada (Toronto, call 671-8383)	\$395.

Training Products

Training Classes (continued)

Product/ Opt. No.	Component	Description	U.S. List Price
HP 51434S		Fundamentals of the UNIX System Audience: System administrators and software developers Objective: Receive in-depth coverage of the UNIX operating system and learn fundamentals of shell programming in a course based upon AT&T UNIX System V and selected U.C. Berkeley 4.3 BSD extensions. Receive additional information that is specific to the HP-UX operating system. Prerequisites: Basic computer knowledge and programming experience. Length: 5 days	\$1,495.
HP 51489S		UNIX System Basics I Audience: Application users, and system administrators in a run-time-only environment. Objective: Learn the basics of the UNIX system in preparation for using an application or administering a run-time-only environment. This 2-day course is conveniently scheduled before HP-UX System Administration Basics (HP 50722S) to minimize your travel time and costs. Prerequisites: None. Length: 2 days.	\$595.
HP H2572S		UNIX System Basics II Audience: Software developers Objective: Expand your UNIX system knowledge with part two of our basics training series. This course plus UNIX System Basics I (HP 51489S) prepares you for our entire curriculum of system administration and software development courses. Prerequisites: UNIX System Basic I (HP 51489S); programming experience recommended. Length: 3 days.	\$895.
HP 51436S		HP-UX Workstation Administration for the HP 9000 Series 300/400/700 Audience: System administrators. Objective: Expand what you learned in Fundamentals of the UNIX System (HP 51434S) in order to successfully administer an HP 9000 workstation in an interactive, hands-on environment. This intensive 5-day course also qualifies you to become an authorized HP Response Center caller. Prerequisites: Fundamentals of the UNIX System (HP 51434S), or UNIX System Basics I (HP 51489S) and UNIX System Basics II (HP H2572S) Length: 5 days.	\$1,650.

PC-based Test and Measurement Products

PC-300 Controller Bundles.

The PC-300 instrument controllers are integrated solutions based on the HP Vectra Personal Computer. Each has an HP Measurement Coprocessor

or High Performance Measurement Coprocessor pre-installed. MS-DOS and HP BASIC are also pre-installed on all PC-300 controllers.

PC-300 Controller Bundles

Product/ Opt. No.	Component	Description	U.S. List Price
Common components for all PC-300 bundles			
	45951E 82300D	1.44 Mbyte 3.5 inch floppy Serial/parallel interface(s) MS-DOS Operating System 5.0 HP Measurement Coprocessor with 1 Mbyte RAM HP BASIC 6.2 on 5.25- and 3.5-inch media	
PC-300 Bundles			
*82314G	D2464A D1192A	PC-308ML Controller 286/12, 1 MB RAM, 240 Mbyte hard disk plus: Monochrome VGA	\$4,880.
*82319F	D2464A D1194A	PC-308CM Controller 286/12, 1 MB RAM, 40 Mbyte hard disk plus: Color Super VGA	\$5,400.
*82332E	D1464C D1194A	PC-312CL Controller QS16/S, 2 Mbyte RAM, 40 Mbyte hard disk plus: Color Super VGA	\$6,300.
*82333E	D1424B D1194A	PC-312CM Controller QS/20, 1 Mbyte RAM, 40 Mbyte hard disk plus: Color Super VGA	\$6,800.
82333F	D2514A D1194A	PC-313CM Controller 386/20, 2 Mbyte RAM, 52 Mbyte hard disk plus: Color Super VGA w/82300D	\$5,750.
Opt. 120		Substitute 120 Mbyte Hard Disk for 52 Mbyte Hard Disk	\$450.
Opt. 072		Substitute 72 MHz Ergonomic Super VGA Monitor for D1194A	\$250.

* Obsolescence scheduled for Q4'92 (Note: PC-300 Controller bundles will continue to be available based on new HP Vectra product offering.)

PC-300 Controller Integration

Product/ Opt. No.	Component	Description	U.S. List Price
D1865A		PC-300 Controller integration of any model HP Vectra personal computer and the HP Measurement Coprocessor (82300C/D) or the HP High-Performance Measurement Coprocessor (82324A/B). (Appropriate software HP BASIC and MS-DOS preinstalled). HP Vectra model must include a hard disk drive with a minimum of 40Mb.	\$150.
Note: Contact OP for more details.			

Options Common to all PC-300 Controllers

Product/ Opt. No.	Component	Description	U.S. List Price
MUST Specify one localization options:			
Opt. ABA		U.S. ENGLISH	N/C
Opt. ABB		EUROPE (HPSA) ENGLISH	N/C
Opt. ABD		GERMAN	N/C
Opt. ABE		SPANISH	N/C
Opt. ABF		FRENCH	N/C
Opt. ABK		ICON-ENGLISH	N/C
Opt. ABU		UNITED KINGDOM-ENGLISH	N/C

PC-based Test and Measurement Products

Options Common to all PC-300 Controllers (continued)

Product/ Opt. No.	Component	Description	U.S. List Price
May Specify:			
Opt. 050	82324B	Substitute a 1 Mb 82324B High Performance Measurement Coprocessor with HP BASIC for the 82300D. User receives 82324B with 1 Mb already installed.	\$1,200.
Opt. 054	82324B	Substitute a 4 Mb 82324B High Performance Measurement Coprocessor with HP BASIC for the 82300D. User receives 82324B with 4 Mb already installed.	\$2,550.
Opt. 055	82324B E2160A	Substitute a 2 Mb 82324B High Performance Measurement Coprocessor with HP BASIC Plus and HP BASIC 6.2 for the 82300D. User receives 82324B with 2 Mb already installed.	\$2,000.
Opt. 056	82324B E2160A	Substitute a 4 Mbyte 82324B High Performance Measurement Coprocessor with HP BASIC Plus and HP BASIC 6.2 for the 82300D. User receives 82324B with 4 Mb already installed.	\$2,900.
Opt. 150	82324A	Substitute a 1 Mbyte 82324A High Performance Measurement Coprocessor with HP BASIC 5.14 for the 82300D.	\$1,200.
Opt. 154	82324A	Substitute a 4 Mbyte 82324A High Performance Measurement Coprocessor with HP BASIC 5.14 for the 82300D.	\$2,550.
Opt. 153	82324A	Substitute a 1 Mb 82300C for 1 Mb 82300D which will give the user HP BASIC 5.14	N/C
Opt. W03		Substitute 90 day on-site for 1 year warranty	N/C

PC-300 System Overview

	PC-308ML PC-308CM	PC-312CL PC-312CM	PC-313CM
Vectra Model	286/12	QS/16S or QS/20	386s/20
Processor	80286	80386	80386
Measurement Coprocessor	68000 or 68030	68000 or 68030	68000 or 68030
Clock Speed (MHz)	8	16 or 20	20
PC RAM standard Memory	640 Kbytes	2 Mbytes (PC-312CL) 1 Mbyte (PC-312CM)	2 Mbyte
PC RAM max (Mbyte)	8	16	16
Measurement Coprocessor Standard Memory (Mbytes)	1*	1*	1*
Measurement Coprocessor RAM max (Mbytes)	4/8	4/8	4/8
Measurement Coprocessor DIO cards available	2	2	2
Available Slots	7	7	5
Graphics	Monochrome/Color	Color	Color (Super VGA built-in)
Mass Storage Slots	3	3	4
Mass Storage Std.	1.44 Mbyte 3.5" FD and 40 Mbyte HD	1.44 Mbyte 3.5" FD and 40 Mbyte HD	1.44 Mbyte 3.5" FD and 52 Mbyte HD
Mass Storage Options	N/A	N/A	120 Mbyte HD

* Only available for use from HP Measurement Coprocessor or the HP High Performance Coprocessor.

High Performance Measurement Coprocessor for Vectra PC and IBM/AT Compatibles

Product/ Opt. No.	Component	Description	U.S. List Price
82324B		High Performance Measurement Coprocessor for Vectra PC and IBM/AT and compatibles is an HP BASIC Controller on a plug-in PC Card. 98616B/L HP BASIC 6.2 on 5.25 and 3.5 inch media (includes documentation and overlays) 1 Mbyte RAM expandable to 8 Mbytes RAM.	\$2,895.
82324A		High Performance Measurement Coprocessor with HP BASIC/WS 5.14 is an HP BASIC Controller on a plug-in PC Card. HP BASIC 5.14 on 5.25- and 3.5-inch media (Other standard components same as 82324B.)	\$2,895.
82324B/A May Specify one memory option (1 Mb standard):			
Opt. 102	82325A	Total 2 Mb RAM	\$450.
Opt. 104	82326A	Total 4 Mb RAM	\$1,350.
82324B/A May also specify:			
Opt. 882		Install a Floating Point Unit (math coprocessor) on the 82324B board.	\$500.

PC-based Test and Measurement Products

Accessory Products for the High Performance Measurement Coprocessor (82324x)

Product/ Opt. No.	Component	Description	U.S. List Price
82325A		1 Megabyte Memory Board for use with the 82324A/B High Performance Measurement Coprocessor.	\$500.
82326A		4 Megabyte Memory Board for use with the 82324A/B High Performance Measurement Coprocessor.	\$2,000.
82327A		Floating Point Unit (math coprocessor) for the 82324A/B High Performance Measurement Coprocessor.	\$500.

Measurement Coprocessor

Product/ Opt. No.	Component	Description	U.S. List Price
82300D		Measurement Coprocessor for Vectra PC , IBM/AT and compatibles. HP BASIC 6.2 on 5.25 and 3.5 inch media Plug-in Measurement Coprocessor Board Includes 1 Megabyte of RAM, expandable up to 4 Megabytes.	\$1,695.
82300C		Measurement Coprocessor for Vectra PC , IBM/AT and compatibles. HP BASIC 5.14 on 5.25 and 3.5 inch media (Other standard components same as the 82300D)	\$1,695.

Accessory Products for the Measurement Coprocessor (82300x)

Product/ Opt. No.	Component	Description	U.S. List Price
82303A		512KB RAM Kit for 82300A/B/C/D Measurement Coprocessor Provides 512KB of Measurement Coprocessor memory to be installed by user onto the 82300A/B Measurement Coprocessor or on the 82305A Expansion board for the 82300A/B/C/D. This memory is dedicated for use solely by the Measurement Coprocessor and not MS-DOS Programs.	\$150.
82305A		RAM Expansion Board for the 82300A/B/C/D Measurement Coprocessor. Necessary for RAM expansion beyond 1 Megabyte. Allows for expansion to a system total of 4 Megabytes. Comes with Expansion Board, 512 KB of RAM, and an installation manual.	\$495.

Accessory Products for Both Measurement Coprocessors (82300x and 82324x)

Product/ Opt. No.	Component	Description	U.S. List Price
82300U		Upgrade HP BASIC 6.2 Media/Documentation from 82300A/B/C + 82324A	\$350.
Opt. 001		Boot Roms upgrades Boot Rom upgrade only applies to users that have the older 82300A/B product boot roms (P/N) 1818-3114 and 1818-3115. The newer boot roms are (P/N) 1818-4576 and 1818-4577. The new boot roms will display the "PC 300 Boot Rom 1.0" message on the Measurement Coprocessor screen during the boot process.	\$50.
Opt. UA0		L-T-U only	\$150.
82306A		GPIO Interface General purpose I/O interface to be used with the Measurement Coprocessor (82300x or 82324x) in the HP Vectra Personal Computer.	\$655.
82307A		GPIO Interface Cable General purpose I/O interface cable, unterminated 4.6 Meter cable for the 82306A GPIO Interface to be used with the Measurement Coprocessor (82300x or 82324x).	\$280.
50963A		SRM Shared Resource Manager Interface SRM interface to be used with the Measurement Coprocessor (82300x or 82324x) in the HP Vectra Personal Computer. Provides connection to HP's SRM coax network. Also supports SRM/UX servers.	\$1,160.
82313B		HFS-Hierarchical File System software for use with 82300D and 82324B.	\$675.

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