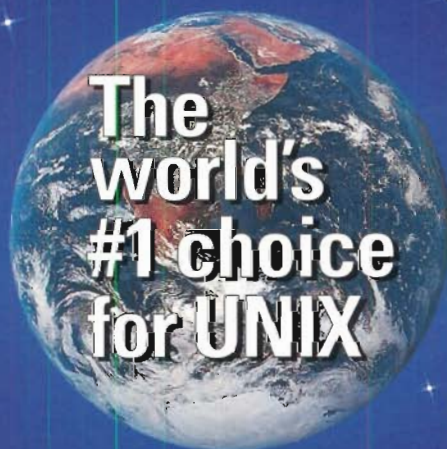


HP DIRECT

Your source for HP 9000 products

Special
Workstation
Supplement



The
world's
#1 choice
for UNIX

Introducing the
new Model 715

The best price/performance
for entry-
level 3D.
See page 12



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Homer
Homer Wong—**HP DIRECT** General Manager



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We can help you find the best solution for most workstation configurations and give you a verbal quote fast. If you're not sure exactly what you need or how much it costs, just ask.

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On the cover: Select HP and you'll be choosing the #1 Worldwide Commercial RISC/UNIX Vendor
Source: Aberdeen Group, February, 1994.



This icon indicates new products



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Series 700

Fast-lane technology in each workstation

Hewlett-Packard's Series 700 family of workstations puts you behind the wheel of high-performance PA-RISC technology. With the industry's top speed, the best graphics, and remarkably low prices, the Series 700 gives your business the winning advantage you need today.

The 7100 and 7100LC processors offer better performance for your applications, faster response time, and greater overall productivity at lower costs. With upgrades for growth on demand, your Series 700 workstations will keep you in the fast lane for years to come.

A model for every need

HP's Series 700 family features a wide selection of models, configurations, and integrated options to make customizing a system easy. You can build a solution that brings together the power of a workstation, the applications availability of a PC, the intuitive ease-of-use of a graphical user interface, and the security and system management of a main-frame—all at an outstanding low price. We call this the Enterprise Desktop.

Your best buy in workstations today...

Series 700 workstations are easy to order, install, configure, maintain, and upgrade. Compare prices and levels of performance. You'll see that HP offers the industry's best values. With the Series 700, you'll enjoy exceptional performance from a broad range of applications. You'll also have the independence that an open system allows.

and tomorrow

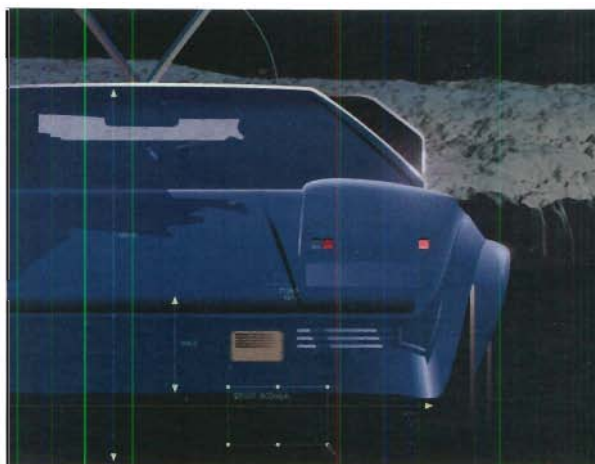
As your needs grow and computers evolve, Hewlett-Packard will continue to provide intelligent solutions. Whether in client/server computing or X terminal networks, you will find the Series 700 playing a strategic role. A vast range of upgrades, add-ons, and other products protects your investment with total support long into the future.



Low prices and extensive upgrade opportunities make Series 700 workstations a great value now and down the road.

Special Workstation Supplement Contents

Series 700 family overview	3
Performance overview	4
Fast facts	6
Graphics options	8
Instant Ignition	9
Model 712 workstations	10
Model 715 workstations	12
Model 725 workstations	14
Model 735 workstations	15
Model 755 workstation	15
System upgrades	16
Memory	17
Internal storage	18
HP ENTRIA X Terminals	19



If, over the last five years alone, the development of the automobile had matched that of HP's workstations, today's sports cars would be capable of 1,200 mph and cost around \$5,000. This analogy provides an insight into the remarkable pace and direction of the development of the HP 9000 Series 700 workstations.

Performance Comparisons for Series 700 Models

A workstation for every need

SPECfp92



Model 712/60
\$3,995

85.5 SPECfp92
 58.1 SPECint92
 12.8 MFLOPS

Your workstation of choice for applications that require fast X Window System performance and low-cost 2D graphics, the Model 712/60 is suitable for financial trading, customer service, brand management, telesales, and other fields in which the Enterprise Desktop excels. Its unequalled integer performance and breakthrough low price offer an outstanding value.

Model 712/80
\$9,320

122.3 SPECfp92
 84.3 SPECint92
 30.6 MFLOPS

This higher power Model 712 workstation is an excellent choice for customer service, brand management, telesales, and especially outstanding PC emulation. Its telephony slot and other Enterprise Desktop features put it at the head of its class.

Model 715/64
\$9,995

96.5 SPECfp92
 66.6 SPECint92
 24.3 MFLOPS

With its graphics performance and low price, the Model 715/64 offers accelerated rendering for a wide range of uses. These include mechanical design automation, scientific computing, application development, and architecture as well as financial trading.

Model 715/80
\$13,600

120.9 SPECfp92
 83.5 SPECint92
 30.5 MFLOPS

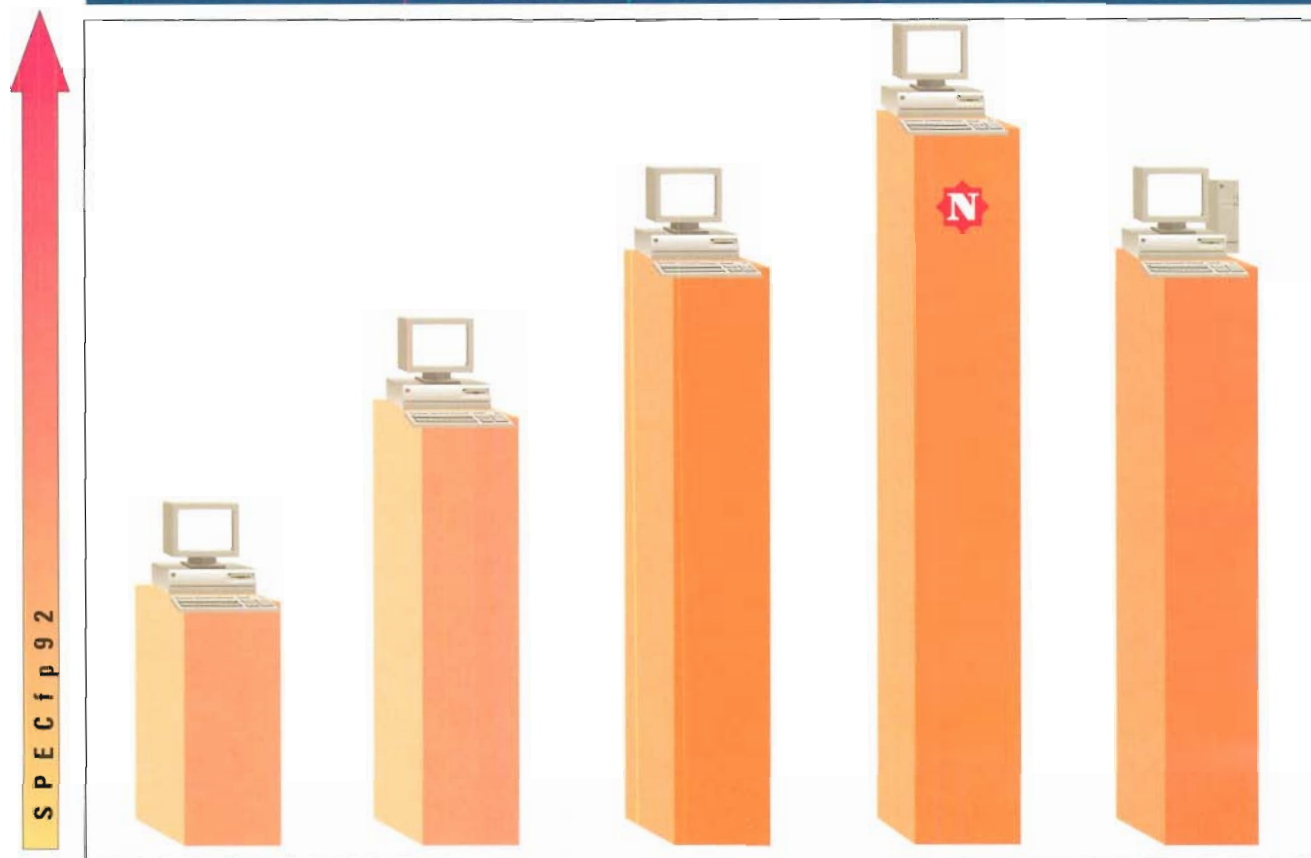
The computational power, graphics capabilities, and configurability of the Model 715/80 make it ideal for work in electronic design automation, application development, customer service, and document management and publishing.

Model 715/100
\$19,005

137.0 SPECfp92
 100.1 SPECint92
 37.8 MFLOPS

Model 715/100
 The high performance Model 715/100 brings fast X Window performance, accelerated rendering, and an affordable price to the fields of application development, geographic information systems, and brand and category management.

Performance Comparisons for Series 700 Models



Model 725/50
\$15,405

78.8 SPECfp92
49.2 SPECint92
14.3 MFLOPS

With four EISA slots for added expandability, the Model 725/50 offers performance now and room to grow. Exceptional 3D graphics are also yours with the Model 725/50. This model can keep up with the increasing needs of mechanical, manufacturing, EDA, retail, and database applications.

Model 725/75
\$18,105

126.8 SPECfp92
80.3 SPECint92
31.0 MFLOPS

With the Model 725/75 workstation, multimedia projects are supported with CD-quality audio and add-on video card options. Quality graphics capabilities are also supported.

Model 735
\$30,395

167.9 SPECfp92
109.1 SPECint92
45.4 MFLOPS

The industry's fastest desktop workstation features the fastest I/O subsystem on the market. The advanced fast-wide SCSI-2 interface allows data transfer rates of 20 MB per second. Its graphics slot and EISA slot keep it expandable. Put the speed of the Model 735 to work on your database, AEC, manufacturing, and other projects.

Model 735/125
\$39,495

201.0 SPECfp92
136.0 SPECint92
57.4 MFLOPS

The Model 735/125 delivers impressive CPU performance by combining a 125 MHz PA-7150 integer processor with a 125 MHz floating-point processor. The Model 735/125 is designed to meet the needs of workstation users for the scientific and engineering as well as software development markets.

Model 755
\$40,995





167.9 SPECfp92
109.1 SPECint92
45.4 MFLOPS

A speedy I/O subsystem and a fast-wide SCSI-2 interface make the Model 755 the industry's fastest desktside workstation. Its two graphics slots and four EISA slots mean that you'll also have expanded configurability features. The Model 755 can add speed and versatility to EDA, database, financial services, and oil and gas applications.

All prices represent entry-level system color configuration with localization kits.

Choosing the Series 700 is a matter of facts

HP Series 700 Performance Characteristics

Model	Packaging Type	Processor	Clock Speed	SPECint92	SPECfp92	Integer Performance	Floating Point	Main Memory	Expansion
712/60	Desktop	PA-RISC 7100LC	60 MHz	58.1 [1]	85.5 [1]	73 MIPS	12.8 MFLOPS	16-128 MB	1 General [3] 1 Teleshare
712/80	Desktop	PA-RISC 7100LC	80 MHz	84.3 [1]	122.3 [1]	92 MIPS	30.6 MFLOPS	16-128 MB	1 General [3] 1 Teleshare
 715/64	Desktop	PA-RISC 7100LC	64 MHz	66.6 [2]	96.5 [2]	78 MIPS	24.3 MFLOPS	32-256 MB	1 EISA (std)+
 715/80	Desktop	PA-RISC 7100LC	80 MHz	83.5 [2]	120.9 [2]	97 MIPS	30.5 MFLOPS	32-256 MB	1 EISA (std)+
 715/100	Desktop	PA-RISC 7100LC	100 MHz	100.1 [2]	137.0 [2]	122 MIPS	37.8 MFLOPS	32-256 MB	1 EISA (std)+
725/50	Desktop	PA-RISC 7100	50 MHz	49.2 [1]	78.8 [1]	63 MIPS	14.3 MFLOPS	16-256 MB	4 EISA (std)+
725/75	Desktop Desktopside	PA-RISC 7100	75 MHz	80.3 [1]	126.8 [1]	92 MIPS	31.0 MFLOPS	32-256 MB	4 EISA (std)+
735	Desktop	PA-RISC 7100	99 MHz	109.1 [1]	167.9 [1]	125 MIPS	45.4 MFLOPS	32-400 MB	1 EISA (std)
 735/125	Desktop	PA-RISC 7150	125 MHz	136.0 [1]	201.0 [1]	154 MIPS	57.4 MFLOPS	32-400 MB	1 EISA (std)
755	Desktopside	PA-RISC 7100	99 MHz	109.1 [1]	167.9 [1]	125 MIPS	45.4 MFLOPS	64-768 MB	4 EISA (std)

+ One EISA expansion slot becomes inaccessible when using CRX-24, CRX-24Z, CRX-48Z, or HCRX graphics options

[1] With HP-UX 9.03

[2] With HP-UX 9.05

[3] See page 11 for networking options



The Series 700 workstations feature the PA-RISC 7100, 7100LC, and 7150 processors to deliver industry-leading perfor-

mance. Compare the benchmarks. You'll find superior speed in every range at lower costs than our competition.

We invite you to call **HP DIRECT** toll-free with any questions.

HP Series 700 Performance Characteristics

Model	Graphics	Max. Internal Disk Capacity	Internal Drive Capabilities	Internal Hard Drive	Internal Removable Storage Options [5]	Interfaces	Networks (available)	Minimum Operating System	Entry Color Base Price [6]
712/60	2D & 3D Color [7]	1 GB	2 bays	260MB (SE) 525MB (SE) 1GB (SE)	1.4 MB Flexible	SE SCSI-2 RS-232-C (9 pin) Centronics Parallel (2) PS/2 Connectors CD Audio I/O	IEEE-802.3, X.25, 802.5 Token Ring	HP-UX 9.03	\$3,995*
712/80	2D & 3D Color [7]	1 GB	2 bays	260MB (SE) 525MB (SE) 1GB (SE)	1.4 MB Flexible	SE SCSI-2 RS-232-C (9 pin) Centronics Parallel (2) PS/2 Connectors CD Audio I/O	IEEE-802.3, X.25, 802.5 Token Ring	HP-UX 9.03	9,320
715/64	2D & 3D Color	4 GB	3 bays	525MB (SE) 1GB (SE) 2GB (SE) [4]	600 MB CD-ROM 1.4 MB Flexible 2 GB 4 mm DDS 4-8 GB 4 mm DDS w/data compression	SE SCSI-2 (2) RS-232-C (9 pin) HP-HIL Centronics Parallel CD Audio I/O	IEEE-802.3, ATR, SNA, ISDN, X.25, 802.5 Token Ring	HP-UX 9.05	9,995
715/80	2D & 3D Color	4 GB	3 bays	525MB (SE) 1GB (SE) 2GB (SE) [4]	600 MB CD-ROM 1.4 MB Flexible 2 GB 4 mm DDS 4-8 GB 4 mm DDS w/data compression	SE SCSI-2 (2) RS-232-C (9 pin) HP-HIL Centronics Parallel CD Audio I/O	IEEE-802.3, ATR, SNA, ISDN, X.25, 802.5 Token Ring	HP-UX 9.05	13,600
715/100	2D & 3D Color	4 GB	3 bays	525 MB (SE) 1.05GB (SE) 2GB (SE) [4]	600 MB CD-ROM 1.4 MB Flexible 2 GB 4 mm DDS 4-8 GB 4 mm DDS w/data compression	SE SCSI-2 (2) RS-232-C (9 pin) HP-HIL Centronics Parallel CD Audio I/O	IEEE-802.3, ATR, SNA, ISDN, X.25, 802.5 Token Ring	HP-UX 9.05	19,005
725/50	2D Grayscale 2D & 3D Color	2 GB	3 bays	525 MB (SE) 1GB (SE) [4]	600 MB CD-ROM 1.4 MB Flexible 2 GB 4 mm DDS 4-8 GB 4 mm DDS w/data compression	SE SCSI-2 (2) RS-232-C (9 pin) HP-HIL Centronics Parallel CD Audio I/O	IEEE-802.3, ATR, SNA, ISDN, X.25, 802.5 Token Ring	HP-UX 9.0	15,405
725/75	2D Grayscale 2D & 3D Color	2 GB	3 bays	525 MB (SE) 1.05GB (SE) [4]	600 MB CD-ROM 1.4 MB Flexible 2 GB 4 mm DDS 4-8 GB 4 mm DDS w/data compression	SE SCSI-2 (2) RS-232-C (9 pin) HP-HIL Centronics Parallel CD Audio I/O	IEEE-802.3, ATR, SNA, ISDN, X.25, 802.5 Token Ring	HP-UX 9.01	18,105
735	2D Grayscale 2D & 3D Color	2 GB	2 bays	525 MB (SE) 1 GB (SE or FW) [4]	1.4 MB Flexible	SE SCSI-2, FW SCSI-2 (2) RS-232-C (9 pin) HP-HIL Centronics Parallel CD Audio I/O	IEEE-802.3, FDDI, ATR, SNA, ISDN, X.25, 802.5 Token Ring	HP-UX 9.03	30,395
735/125	2D Grayscale 2D & 3D Color	2 GB	2 bays	525 MB (SE) 1 GB (SE or FW) [4]	1.4 MB Flexible	SE SCSI-2, FW SCSI-2 (2) RS-232-C (9 pin) HP-HIL Centronics Parallel CD Audio I/O	IEEE-802.3, FDDI, ATR, SNA, ISDN, X.25, 802.5 Token Ring	HP-UX 9.03	39,495
755	2D & 3D Color	4 GB	4 bays	2 GB (SE or FW) [4]	600 MB CD-ROM 1.4 MB Flexible 2 GB 4 mm DDS 4-8 GB 4 mm DDS w/data compression	SE SCSI-2, FW SCSI-2 (2) RS-232-C (9 pin) HP-HIL Centronics Parallel CD Audio I/O	IEEE-802.3, FDDI, ATR, SNA, ISDN, X.25, 802.5 Token Ring	HP-UX 9.03	40,995

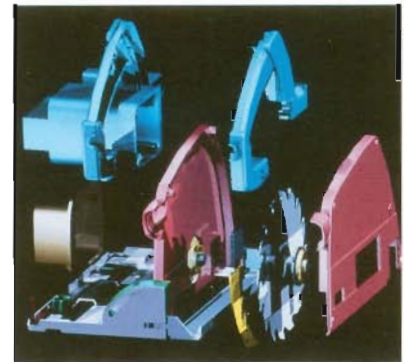
[4] Up to two internal hard drives per system
[5] Limited to one removable device per system

[6] Price represents entry-level system color configuration with localization kit
[7] 3D color is available through software

*Special bundle pricing
SE=Single-ended SCSI-2
FW=Fast-wide SCSI-2

Choose the graphics subsystem that's right for you

Hewlett-Packard workstations offer you superior graphical performance for a wide range of uses. Whatever your demands, you'll enjoy leading X11 windowing performance and faster 3D performance than any other products comparatively priced. Use the benchmarks to guide your choice in workstations and graphics subsystems. If you have questions about HP's industry-leading graphics options, please call **HP DIRECT** for fast answers and expert advice.



Base Accelerated Graphics

Integrated 8-bit Grayscale System

256 shades of gray • 8 planes, or 4/4 double buffered • 1 color map • overlay planes available via software • Xmark93 9.92 • PLBwire93 75 • PLBsurf93 44

Integrated 8-bit Color

256 simultaneously displayable colors • 8 planes, or 4/4 double buffered (8/8 virtual) • 1 color map • overlay planes available via software • Xmark93 7.5 • PLBwire93 53 • PLBsurf93 19

CRX- 8-bit Color

256 simultaneously displayable colors • 8 planes with 8/8 double buffered • 1 color map • overlay planes available via software • Xmark93 9.92 • PLBwire93 75 • PLBsurf93 44

Integrated Accelerated 8-bit Color

Over 4 million available colors via HP Color Recovery technology • 8 planes • 2 color maps • Xmark93 8.63 • overlay planes available with software • PLBwire93 61 • PLBsurf93 23

Please note: Performance varies with CPU. These performance numbers represent the maximum performance available today. Integrated Color performance numbers are based on the use of a Model 715/75. Integrated Accelerated Color and HCRX performance numbers are based on the use of a Model 715/100. CRX performance numbers are based on the use of a Model 735/125. Please call HP DIRECT for the specific performance numbers for any system that interests you.

Mid-range Performance

CRX-24- 24-bit Color

16.7 million available colors • 24 planes, or 12/12 double buffered • 5 color maps • 8 overlay planes • Xmark93 8.58 • PLBwire93 75 • PLBsurf93 45

CRX-24Z- 24-bit Z Buffered Color

16.7 million available colors • 24 planes, or 12/12 double buffered • 8 overlay planes • 5 color maps • Xmark93 8.58 • PLBwire93 74 • PLBsurf93 76 • includes PowerShade software

HCRX-8-bit Color

Over 4 million available colors via HP Color Recovery technology • 8 planes with 8/8 double buffered • 4 color maps • 8 overlay planes • Xmark93 12.28 • PLBwire93 62 • PLBsurf93 29

HCRX-24-bit Color

16.7 million available colors • 24 planes, or 12/12 double buffered • 4 color maps • 8 overlay planes • Xmark93 12.28 • PLBwire93 62 • PLBsurf93 29

HCRX-8Z-8 bit Z Buffered Color

Over 4 million available colors via HP Color Recovery technology • 8 planes with 8/8 double buffered • 4 color maps • 8 overlay planes • Xmark93 12.28 • PLBwire93 68 • PLBsurf93 68 • includes PowerShade software

HCRX-24Z-24-bit Z Buffered Color

16.7 million available colors • 24 planes, or 12/12 double buffered • 4 color maps • 8 overlay planes • Xmark93 12.28 • PLBwire93 68 • PLBsurf93 68 • includes PowerShade software

Advanced Performance

CRX-48Z- 24-bit Double Buffered Color

16.7 million available colors • 24 planes, double buffered • 5 color maps • 8 overlay planes • Xmark93 10.8 • PLBwire93 79 • PLBsurf93 112 • includes PowerShade software

Definitions

Xmark93 is a weighted definition of X11perf, with the weighting of the X11 calls designed to reflect how often each type of call is used by a mix of 2D applications, as well as the graphical user interface.

PLBwire93 is designed to measure how well a system can render actual 3D wire-frame models.

PLBsurf93 uses four different filesets to test how well a computer can simulate objects as they actually appear.

HP Computer Museum

www.hpmuseum.net

For research and education purposes only.

No growing pains!

Upgrading is easy with the Series 700 family. Whether you upgrade your workstation or your software or both, you'll find even greater performance is convenient and easy enough to do yourself. Minimal down time, maximized graphics capabilities, and reasonable prices. Your system investment is protected and better performance is always within easy reach. This chart shows the upgrade choices available.

Graphics Upgrades			
For Models 720, 730, 735, 750, 755			
		Product Number	Price
CRX	→ CRX-24	A2271A	\$ 6,000
CRX-24	→ CRX-24Z	A1454A	6,000
CRX-24Z	→ CRX-48Z*	A2666A	12,000
*Not supported on Models 720, 730, or 750.			
For Models 715 and 725*			
		Product Number	Price
Integrated color	→ CRX-24	A2673A	\$ 4,000
Integrated grayscale	→ CRX-24Z	A2674A	5,000
Integrated color	→ CRX-48Z	A2675A	14,000
Integrated grayscale			

*You must have an available EISA slot to install

Graphics Options									
Model 712/60	Model 712/80	Model 715/64	Model 715/80	Model 715/100	Model 725/50	Model 725/75	Model 735	Model 735/125	Model 755
Integrated Accelerated color	Integrated Accelerated color	Integrated Accelerated color	Integrated Accelerated color	Integrated Accelerated color	Integrated grayscale	Integrated grayscale	GRX	GRX	CRX
		HCRX-8	HCRX-8	HCRX-8	Integrated color	Integrated color	CRX	CRX	CRX-24
		HCRX-24	HCRX-24	HCRX-24	CRX-24	CRX-24	CRX-24	CRX-24	CRX-24Z
		HCRX-8Z	HCRX-8Z	HCRX-8Z	CRX-24Z	CRX-24Z	CRX-24Z	CRX-24Z	CRX-48Z
		HCRX-24Z	HCRX-24Z	HCRX-24Z	CRX-48Z	CRX-48Z	CRX-48Z	CRX-48Z	

Choosing the Right Bits			
8 Choose 8-bit color for basic colorwork and to aid user comprehension and productivity. Add HP's PowerShade software to an 8-bit graphics system for light to medium 3D/high-end graphics use.	24 Choose 24-bit color if you regularly work with detailed color images, photos, and scans. It is also appropriate for photo-realism and smooth graduations of color, and for video imaging and multimedia.	Z Choose HP's Z buffered graphics system (CRX-24Z) for top-end 3D performance, or our 24/24 double buffered system (CRX-48Z) for even faster, smoother 3D imaging and animation.	H Choose the HCRX series when you want faster performance at a lower cost. This series is ideal for cost-sensitive users who desire high quality from their 2D/3D design and modeling applications. The faster your system performs, the faster the graphics performance.

Order Instant Ignition for convenient preloaded software

We can preload your new Series 700 model with HP-UX and other software* along with custom recovery instructions for your workstations. Order Desktop HP-UX Instant Ignition if your commercial client workstation runs, but does not develop, X-Window applications. Order RunTime HP-UX Instant Ignition if your Series 700 runs software development

applications, Starbase-based graphical applications or acts as a multi-user system. Instant Ignition offers options for customer configured disk swap space and backup media right from the factory.

*As of January 1994, your choice of preloadable software products include: HP-UX 8-user Run-Time, S/ANSI C Developers Bundle, HP-UX Developers Toolkit, HP-UX General Programming Tools, C Compiler, FORTRAN, Pascal, MPower, and Ready-to-View Desktop Builder Kit. Your software choices must be specified at time of ordering.

Instant Ignition Ordering Information		
Description	Product Number	Price
English Desktop HP-UX Instant Ignition <i>This option must be ordered with workstation on which Instant Ignition is to be preloaded.</i>	B3530AA	\$125
HP-UX 9.03 version	APH	N/C
English Run-Time HP-UX Instant Ignition <i>This option must be ordered with workstation on which Instant Ignition is to be preloaded.</i>	B2910A	183
HP-UX 9.03 version	APH	N/C

HP's Model 712, the workstation of choice for Enterprise Desktop applications



Take your first step toward Enterprise Desktop solutions with the Model 712 workstations. High performance, special user-friendly features, and integrated networking and multimedia capabilities at remarkably low prices make the Model 712 an outstanding value.

Two new high performance models

The Model 712/60 and 712/80 are powered by the revolutionary PA-RISC 7100LC processor. Both offer stunning benchmarks that place them far forward of the competition.

Your team's most valuable player

Outstanding graphics capabilities, superior integer performance, and networking make the Model 712 ideal for financial services, customer service, oil and gas, aerospace, and 2D technical applications. And, whatever your field, you'll appreciate how all the advanced features accent ease of use, performance, and scalability.



Get high power at a low price with the Model 712 workstations.

An integral part of your Enterprise Desktop computing

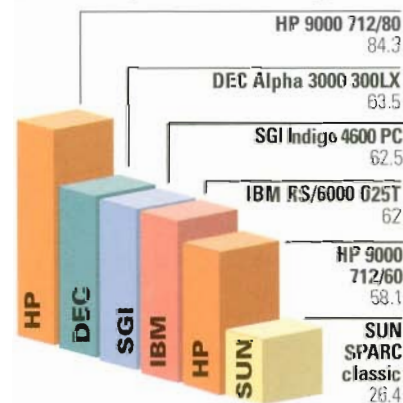
Simple installation, expansion, and serviceability make the Model 712 workstations ideal Enterprise Desktop systems. A selection of inexpensive networking and multimedia devices lets you enjoy great application flexibility.

Scalability

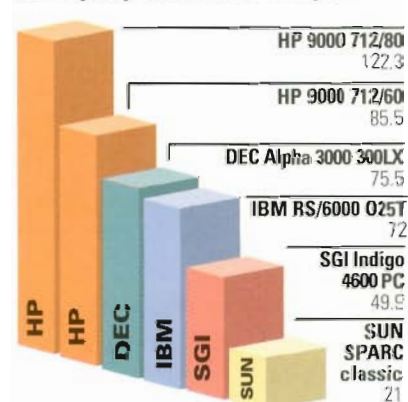
Scalability is one more plus. While PCs are not scalable beyond the low end of the Series 700 family, the HP 9000 family is scalable all the way up to the data center, with one architecture and one operating environment.

Model 712 Performance Leads the Field

SPECint92 performance comparison



SPECfp92 performance comparison





Ready for multimedia

MPower

Add this product to integrate such facilities as audio, video, and image to your HP VUE environment.

Telephony slot

This slot lets you add the innovative HP TeleShare card which puts telephone, fax, and modem capabilities on your screen.

HP Wabi

This software allows you to run PC applications right off the shelf on your Model 712.

Model 712/60 and 712/80 Ordering Options

Description	Operating System	Product / Option Number	Price
712/60	HP-UX 9.03	A4023A	\$ 2,590
712/80	HP-UX 9.03	A4027A	6,140
Monitor - Must select ONE			
15-inch color (1024 x 768) [1]		AQ3	120
17-inch color (1024 x 768)		AQ4	1,295
17-inch color (1280 x 1024)		AQ5	1,695
19-inch color (1280 x 1024)		ADJ	3,295
11.8-inch flat panel color display (1024 x 768)		AQ2	10,595
Memory Configuration - Must select ONE			
16 MB (two 8 MB boards)		ANB	1,280
24 MB (two 8 MB boards and two 4 MB boards)		ANF	1,920
32 MB (four 8 MB boards)		ANC	2,560
32 MB (two 16 MB boards)		UFS	2,880
64 MB (two 32 MB boards)		ANE	7,680
Internal Disk Drive - Must select ONE			
Add 260 MB single-ended SCSI-2 disk drive		ATK	500
Add 525 MB single-ended SCSI-2 disk drive		AT9	1,200
Add 1 GB single-ended SCSI-2 disk drive		AT7	2,100
Workstation Localization Kit - Required			
PC-101 keyboard (with mouse, power cord & documentation)		A4030A	105
North American option		ABA	N/C

Model 712/60 and 712/80 Factory Integrated Options

Factory Integrated Removable Media*			
Add 1.4 MB 3.5-inch SCSI-2 floppy disk drive		AMB	125
Networking Options - Select ONE only*			
Add second serial interface port		UGA	295
Add second LAN AUI port with second serial port		UGB	695
Add X.25 port with second serial port (software on DDS tape)		UGC	795
Add HP Token Ring/9000 (software on DDS tape)		AL4	695

[1] Available only on Model 712/60

* Optional

Model 712 innovations

- **Easier to use and less expensive**
- **Soft power-down** - The Model 712 writes any new data to disk, discontinues processes, and shuts itself down by just pressing the power button.
- **Fast boot** - Boot time is reduced to no more than 60 seconds, while the competition makes you wait up to four minutes.
- **Modular design** - The compact, snap-together construction eliminates the need for tools and fasteners, and results in a small footprint and minimized service requirements.
- **Flat panel display (optional)** - The 11.8-inch active matrix display is perfect when desk space is at a premium and transportability and location flexibility are critical.
- **Enhanced connectivity** - Standard features include Ethernet or AUI LAN, SCSI, Serial, and Centronics Parallel for greater versatility.

Model 712 Add-on Products

Description	Product / Option Number	Price
Additional Memory		
8 MB RAM (two 4 MB SIMMs)	A2577A	\$ 640
16 MB RAM (two 8 MB SIMMs)	A2578A	1,280
32 MB RAM (two 16 MB SIMMs)	A2829A	2,880
64 MB RAM (two 32 MB SIMMs)	A2827A	5,760
Internal Storage Devices		
260 MB single-ended SCSI-2 disk drive	A4065A	500
525 MB single-ended SCSI-2 disk drive	A4066A	1,200
1 GB single-ended SCSI-2 disk drive	A4067A	2,100
Floppy disk kit	A4068A	125
External Storage Devices*		
External CD-ROM drive	A2655A	1,095
External 2 GB DAT drive	A2656A	2,495
External 1 GB single-ended disk drive	A2657A	2,495
Other		
HP Token Ring/9000 for Model 712	A4011A	695
Software driver on DDS tape	AAH	N/C
Second serial port	A4013A	295
Second LAN AUI and second serial port	A4014A	695
Second monitor port	A2878A	1,495
Add X.25 port with second serial port	A4015A	795
Software on DDS tape	AAH	N/C

For the convenience of preloaded software... see Instant Ignition on page 9.

HP's Model 715 family begins a new era in workstation performance

With the debut of our three new Model 715 workstations, Hewlett-Packard maintains our leadership position of offering you maximized performance at low prices. Just compare our new Model 715 family with the rest of the industry. We've got the power you want and the affordability you need.

HP's new chip provides power to spare for your modeling applications

Our HP 9000 Models 715/64, 715/80, and 715/100 are the industry's fastest 2D workstations. They also deliver the fastest mid-range 3D graphics performance and the best 3D entry-level price/performance.

8 million true colors

The integrated color graphics includes Color Recovery, a unique HP technology that enables the display of virtually true color images—approximately 8 million available colors, on 8 planes systems. It all adds up to the lowest-cost true color graphics available in the industry.

With the HCRX-8 color graphics system, these Model 715 systems have the fastest 2D/3D vector performance on the desktop! The HCRX-24, which supports 24-bit planes graphics and 8 overlay planes is ideally suited for applications where full 24-bit visual imaging quality (up to 16.7 million colors) is required. The HCRX-8Z and the HCRX-24Z are 3D hardware accelerators. With HP Color Recovery technology, the HCRX-8Z provides a low-cost, superior 3D design and modeling solution with virtually true color, a leading technology available only from HP.

CPU and graphics performance

The HP 9000 Model 715/64, 715/80, and 715/100 systems' CPU and graphics performance combined with low prices make them the ideal workstations for applications requiring fast X Window performance, 2D/3D wireframe, 3D solids modeling, visualization and accelerated rendering. These capabilities are particularly valued for:

- mechanical and electronic design automation
- architecture
- engineering
- construction
- geographic information systems
- scientific computing
- exploration and production in the oil and gas industry
- application development
- document management
- publishing

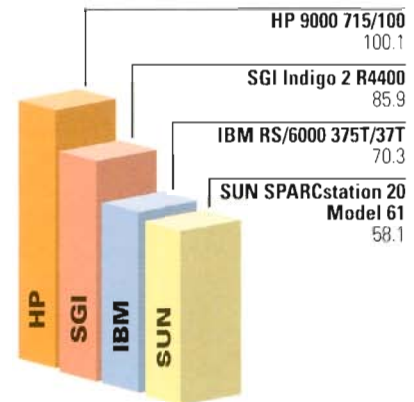
High-performance computational engines

Computational power, graphics capabilities, configurability and network flexibility also make the Model 715 systems excellent high-performance computational engines serving several X stations or entry-level workstations. These systems would provide strong solutions for commercial environments, such as:

- financial trading
- customer service
- brand and category management.

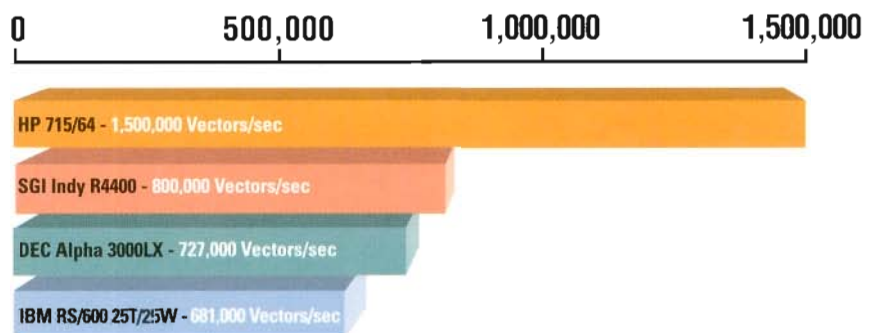
Choose the Benchmark Leader, the New Model 715/100

SPECint92 performance comparison






Get the Strongest Entry-Level Graphics with the Model 715/64

Vectors/second performance comparison



Models 715/64, 715/80, and 715/100 Ordering Options

Description	Operating System	Product/ Option Number	Price
 715/64	HP-UX 9.05	A4090A	\$ 7,495
 715/80	HP-UX 9.05	A4093A	11,100
 715/100	HP-UX 9.05	A4091A	16,505
Monitor - Must select ONE			
17-inch color (1280 x 1024)		AQ5	1,295
20-inch color (1280 x 1024)		AQ7	2,895
Factory Integrated Disks - Must select ONE (maximum of two internal disks)			
Add 525 MB single-ended SCSI-2 disk drive		AT9	1,100
Add 1 GB single-ended SCSI-2 disk drive		AT7	1,600
Add 2 GB single-ended SCSI-2 disk drive		AT6	2,800
Workstation localization kit - Must select ONE (keyboard, mouse, power cord, and documentation)			
PC-101 keyboard		A4030A	105
HP-HIL keyboard		A1099C	105
HP-UX documentation release for localization kit (Required for A1099C only)		APH	N/C
Localized option - Required for each workstation			
North American option		ABA	N/C

Model 715 Factory Integrated Options

Description	Option Number	Price
Additional Factory Integrated Graphics - Select ONE only*		
HCRX-8 Accelerated 2D, 8/8 bit planes	AQF	\$ 2,500
HCRX-24 Accelerated 3D, 24 bit planes	AQG	4,000
HCRX-8Z Accelerated 3D, 8 bit planes [1]	AQH	5,500
HCRX-24Z Accelerated 3D, 24 bit planes [1]	AQJ	7,000
HCRX-48Z Accelerated 3D, 24/24 bit planes [1][2]	AQK	14,000
Additional Factory Integrated Memory - Select ONE only*		
Add 32 MB memory, for a total of 64 MB (8 x 8 MB)	ANN	2,560
Add 32 MB memory, for a total of 64 MB (2 x 32 MB)	UFT	3,200
Add 96 MB memory, for a total of 128 MB (4 x 32 MB)	ANY	8,960
Add 224 MB memory, for a total of 256 MB (8 x 32 MB)	UFN	20,480
Optional Factory Integrated Removable Media - Select ONE only*		
Add 3.5-inch 1.44 MB floppy disk drive	AMB	125
Add 600 MB CD-ROM SCSI-2 drive	AM8	845
Add 2 GB DDS SCSI-2 tape drive	AMW	2,150
Add 4 - 8 GB DDS SCSI-2 tape drive w/tape compression	AMX	2,500
HP-UX 9.0 Instant Ignition* - See page 9		

*Optional

Recommended for the Model 715 workstations

The add-on ThinLAN Ethernet Transceiver (product number A2670A) and the add-on EtherTwist Transceiver (product number A2671A) are both available and recommended for the Model 715 workstations. Contact **HP DIRECT** for more information about these networking products.

Model 715 Installation and Support Options

Description	Option Number	Price
Select ONE only		
Upgrades warranty to 1-year next-day response	OS0	\$ 564
Upgrades warranty to 1-year 4-hour response	OS1	780
Upgrades warranty to 1-year next-day response [3]	OS2	1,008
Upgrades warranty to 1-year 4-hour response [3]	OS3	1,224
Installation	OS4	428
Upgrades warranty to 1-year (7-day) 4-hour response	OS5	1,044
Upgrades warranty to 1-year (7-day) 4-hour response [3]	OS6	1,488

Model 715 Add-on Options

Description	Product/ Option Number	Price
Memory Options		
8 MB memory	A2577A	\$ 640
16 MB memory	A2578A	1,280
32 MB memory	A2829A	2,880
64 MB memory	A2827A	5,760
Internal Storage Devices		
525 MB single-ended SCSI-2 disk	A2800A	1,200
1 GB single-ended SCSI-2 disk	A2801A	2,100
CD-ROM drive	A2803A	845
2 GB DDS tape drive	A2274A	2,150
Mounting bracket	AHV	N/C
4 - 8 GB DDS tape drive (with compression)	A2275A	2,500
Mounting bracket	AHV	N/C
EISA Interface		
EISA FAST Differential SCSI-2 host adaptor	25525B	1,255
EISA single-ended SCSI-2 host adaptor	A2679A	995
EISA HP-IB host adaptor	25560A	1,255
EISA LAN/9000-IEEE 802.3	25567B	1,465
Add Thick MAU and 6 meter cable	740	415
Add EtherTwist MAU and 1 meter cable	840	205
EISA X.25 Link	J2159A	4,410
Provides software on DDS (4 mm DAT) tape	UJC	N/C
Add RS232 cable	1AT	N/C
Add V.35 cable	1AU	N/C
Delete software right-to-use & documentation	1AW	(1,200)
EISA 802.5 (IBM) Token Ring network	J2165A	1,675
HP-UX Version 9.0	APH	N/C
Apollo Token Ring adaptor	A2544A	1,435
HP-UX Version 9.0	APH	N/C
Provides software on DDS (4 mm DAT) tape	AAH	N/C
CD-ROM certificate	AAU	N/C
ISDN BRI ISA/EISA adaptor	J2460A	3,030
Provides software on DDS (4 mm DAT) tape	AAH	N/C
CD-ROM certificate	AAU	N/C

[1] Includes PowerShade software

[2] Available on Model 715/100 only

[3] Includes software phone support

Model 725 workstations, easy to customize

Use these charts to create the Model 725/50 or 725/75 workstation you want. See page 9 for information about Instant Ignition.

HP 725/50 Standard Configurations Ordering Options

Model	Operating System	Graphics	ECC RAM	Internal Disk Drive	Product Number	Price
725/50	HP-UX 9.0	19-inch grayscale	32 MB	525 MB SCSI-2 (SE)	A2685A	\$13,205
		19-inch color			A2689A	15,300
725/50	HP-UX 9.0	19-inch CRX-24 color	32 MB	1 GB SCSI-2 (SE)	A2691A	19,800
		19-inch CRX-24Z color			A2692A	22,800
		19-inch CRX-48Z color			A2693A	29,800

Model 725/75 Configuration Ordering Options

Description	Operating System	ECC RAM	Product/Option Number	Price
Base Configuration:				
725/75	HP-UX 9.0	32 MB	A2897A	\$14,005
Graphics and 19-inch Monitor - Must select ONE				
Grayscale			AQ6	800
Color			AQ7	2,895
CRX-24 color, 24-planes CRX graphics			AQ8	6,895
CRX-24Z color, 24-planes CRX with accelerator and Z-buffered			AQ9	9,895
CRX-48Z color, 24-planes double-buffered CRX with accelerator and Z-buffered			AQA	16,895
Internal Disk Drive - Must select ONE (maximum of two internal disks available)				
Add 525 MB single-ended SCSI 2 disk drive			AT9	1,200
Add 1 GB single-ended SCSI 2 disk drive			AT7	2,100

Model 725 Factory Integrated Options

Description	Model 725/50	Model 725/75	Product/ Opt. No.	Price
Memory*				
Add 32 MB RAM for a total of 64 MB RAM (eight 8 MB SIMMs)	✓	✓	ANN	\$ 2,560
Add 32 MB RAM for a total of 64 MB RAM (two 32 MB SIMMs)	✓	✓	UFT	3,200
Add 96 MB RAM for a total of 128 MB RAM-16 Mbit DRAM (four 32 MB SIMMs)	✓	✓	ANY	8,960
Add 224 MB RAM for a total of 256 MB RAM-16 Mbit DRAM (eight 32 MB SIMMs)	✓	✓	UFN	20,480
Internal Storage*				
Replace 525 MB single-ended SCSI-2 disk drive with a 1 GB single-ended SCSI-2 disk drive [1]	✓	—	013	900
Add 525 MB single-ended SCSI-2 disk drive [1]	✓	—	AT9	1,200
Add 1 GB single-ended SCSI-2 disk drive [1]	✓	—	AT7	2,100
Add 1.4 MB 3.5-inch SCSI-2 floppy disk drive [2]	✓	✓	AMB	525
Add 2 GB 3.5-inch DDS SCSI-2 tape drive [2]	✓	✓	AMW	2,150
Add 4-8 GB DDS SCSI-2 tape drive w/data compression [2]	✓	✓	AMX	2,500
Add 600 MB 5.25-inch CD-ROM SCSI-2 drive [2]	✓	✓	AM8	1,050
Recommended: Ethernet Kit [3]*				
Add-on ThinLAN Ethernet Transceiver	✓	✓	A2670A	175
Add-on EtherTwist Transceiver	✓	✓	A2671A	175

Localization Kits

These HP-UX localization kits include a keyboard, 3-button mouse, four manuals (Owner's Guide, General Usage, HP VUE Users, and Using X Windows Systems) and a power cord.

Localization Kits Ordering Information

Description	Product/Option Number	Price
HP-UX Localization kit. † Includes HP-UX keyboard. (HP-HIL)	A1099C Opt #ABA	\$105
HP-UX Localization kit with PC-style keyboard † Includes PC-style keyboard.	A2205B Opt #ABA	105

† For HP-UX documentation release 9.0, please specify option #APH

Installation and Support Options Ordering Information

Description	Option Number	Price
Select ONE only		
Upgrades warranty to 1-year next-day response	OS0	\$ 626
Upgrades warranty to 1-year 4-hour response	OS1	905
Upgrades warranty to 1-year next-day response [4]	OS2	1,070
Upgrades warranty to 1-year 4-hour response [4]	OS3	1,349
Installation	OS4	428
Upgrades warranty to 1-year (7-day) 4-hour response	OS5	1,253
Upgrades warranty to 1-year (7-day) 4-hour response [4]	OS6	1,697

[1] Maximum of two internal disks per workstation may be ordered

[2] Maximum of one internal removable media device per workstation may be ordered

[3] ThickLAN (AUI) connector is standard

[4] Includes software phone support

* Optional

**For the convenience of preloaded software...
see Instant Ignition on page 9.**

Model 735 and Model 755 high performance solutions

Model 735 Ordering Options

Model	Operating System	Graphics	ECC RAM	Internal Disk Drive	Product Number	Price
735	HP-UX 9.03	19" GRX grayscale	32 MB	525 MB SCSI-2 (SE)	A2600A	\$28,195
		19" GRX grayscale	32 MB	1 GB SCSI-2 (SE)	A2659A	28,695
		20" CRX color 2D/3D	32 MB	525 MB SCSI-2 (SE)	A2601A	30,290
		20" CRX color 2D/3D	32 MB	1 GB SCSI-2 (SE)	A2608A	30,790
		20" CRX-24 color 2D/3D	32 MB	1 GB SCSI-2 (SE)	A2602A	34,790
		20" CRX-24Z color 2D/3D [1]	32 MB	1 GB SCSI-2 (SE)	A2603A	39,790
		20" CRX-48Z color 2D/3D	32 MB	1 GB SCSI-2 (SE)	A2609A	44,790

Model 735/125 Ordering Options

Model	Operating System	ECC RAM	Product/Option Number	Price
 735/125	HP-UX 9.03	32 MB	A4053A	\$35,395

Graphics and Monitor - Must select ONE

19" GRX grayscale	AQC	800
20" CRX color	AQD	2,895
20" CRX-24Z color	AQ8	6,895
20" CRX-24Z color [1]	AQ9	11,895
20" CRX-48Z color 2D/3D [1]	AQA	16,895
20" dual CRX-24Z color 2D/3D	AQM	11,895

Model 735 Factory Integrated Hard Disk - Must Select ONE+

Description	Model 735	Model 735/125	Option Number	Price
Add 525 MB single-ended SCSI-2	—	✓	AT9	\$1,100
Add 1 GB single-ended SCSI-2	✓	✓	AT7	1,600
Add 1 GB fast-wide SCSI-2 [2]	✓	✓	AT8	1,850
Add second 1 GB fast-wide SCSI-2 [3]	—	✓	ATM	1,850
Add 1.4 MB single-ended SCSI-2 [4]	✓	✓	AMB	525

+ (maximum of two internal disks available)

Model 755 Ordering Options

Model	Operating System	Graphics	ECC RAM	Internal Disk Drive	Product Number	Price
755	HP-UX 9.03	20" CRX color 2D/3D	64 MB	2 GB SCSI-2 (SE)	A2551A	\$40,890
		20" CRX-24 color 2D/3D	64 MB	2 GB SCSI-2 (SE)	A2552A	44,890
		20" CRX-24Z color 2D/3D [1]	64 MB	2 GB SCSI-2 (SE)	A2553A	49,890
		20" CRX-48Z color 2D/3D [1]	64 MB	2 GB SCSI-2 (SE)	A2650A	54,890
		20" dual CRX-24 color 2D/3D	64 MB	2 GB SCSI-2 (SE)	A2652A	49,890

735 and 735/125: Additional factory integrated memory, up to 366 MB, is available as an option upon request.

755: Additional factory integrated options, including internal disks, up to 704 MB of additional memory, EISA, and networking are available upon request.

Models 735 and 735/125 Networking Options - Must select ONE

Description	Option Number	Price
Install ThinNET configuration	033	N/C
Install LAN AUI configuration	008	N/C
Install FDDI configuration	009	\$2,000

Localization Kits

These HP-UX localization kits include a keyboard, 3-button mouse, four manuals (Owner's Guide, General Usage, HP VUE Users, and Using X Windows Systems) and a power cord.

Localization Kits Ordering Information

Description	Product Number	Price
HP-UX Localization kit† Includes HP-UX keyboard. (HP-HIL)	A1099C Opt #ABA	\$105
HP-UX Localization kit with PC-style keyboard† Includes PC-style keyboard.	A2205B Opt #ABA	105

† For HP-UX documentation release 9.0,
please specify option #APH

[1] Includes PowerShade software

[2] May not mix single-ended and fast-wide devices

[3] Requires concurrent order of AT8

[4] Not available with AT8

**For the convenience of preloaded
software...
see Instant Ignition on page 9.**

**Ask about HP System
Support Options
when ordering**

HP upgrades offer long-term growth solutions

Series 700 workstation system upgrades offer a long-term solution to your ever-changing business needs. That's because a simple upgrade can deliver higher performance to your current system. So, if your business demands are growing, a quick and easy trade-in can keep you competitive. Please note that exchanged components must be returned to Hewlett-Packard.



Series 700 System Upgrade Ordering Information				
From	To	Description	Product/OptionNumber	Price
715/33	715/64	CPU Board Upgrade [1][2]	A4142A	\$ 8,600
		Graphics must be exchanged		
		Upgrade from CRX-24 to HCRX-24	UEN	N/C
		Upgrade from CRX-24Z to HCRX-24Z	UEP	N/C
715/33	715/100	CPU Board Upgrade [1][2]	A4143A	11,100
		Graphics must be exchanged		
		Upgrade from CRX-24 to HCRX-24	UEN	N/C
		Upgrade from CRX-24Z to HCRX-24Z	UEP	N/C
715/50	715/100	CPU Board Upgrade [1][2]	A4144A	8,200
		Graphics must be exchanged		
		Upgrade from CRX-24 to HCRX-24	UEN	N/C
		Upgrade from CRX-24Z to HCRX-24Z	UEP	N/C
		SGC interface card (for CRX-48Z)	055	N/C
715/64	715/100	CPU Board Upgrade [3]	A4148A	9,100
715/75	715/100	CPU Board Upgrade [2]	A4145A	5,500
		Graphics must be exchanged		
		Upgrade from CRX-24 to HCRX-24	UEN	N/C
		Upgrade from CRX-24Z to HCRX-24Z	UEP	N/C
		SGC interface card (for CRX-48Z)	055	N/C
715/80	715/100	CPU Board Upgrade [3]	A4149A	5,400
720*	735	CPU and I/O Board Upgrade [2]	A2605A	16,000
		EISA upgrade kit	A1986A	N/C
		Install LAN ThinNET Configuration	033	N/C
		Install LAN AUI Configuration	008	N/C
		Install FDDI Configuration	009	2,000
720*	735/125	CPU and I/O Board Upgrades [2]	A4052A	17,000
		EISA upgrade kit	A1986A	N/C
		Install LAN ThinNET Configuration	033	N/C
		Install LAN AUI Configuration	008	N/C
		Install FDDI Configuration	009	2,000
725/50	725/75	CPU Board Upgrade [3]	A2808A	6,500
730	735	CPU and I/O Board Upgrade [2]	A2606A	10,500
		Install LAN ThinNET Configuration	033	N/C
		Install LAN AUI Configuration	008	N/C
		Install FDDI Configuration	009	2,000
730	735/125	CPU and I/O Board Upgrade [2]	A4051A	14,000
		Install LAN ThinNET Configuration	033	N/C
		Install LAN AUI Configuration	008	N/C
		Install FDDI Configuration	009	2,000
735	735/125	CPU Board Upgrade [3]	A4050A	9,100
750	755	CPU Board Upgrade [2]	A2248AU	10,500
		Install FDDI Configuration	009	2,000
		Install LAN AUI Configuration	AL9	N/C

* HP-UX 9.0 required

[1] Requires update to HP-UX 9.05

[2] Field installation required

[3] User-installable

Run the latest applications by adding HP memory



Choose HP memory add-on boards right now and start enjoying increased performance and 100% compatibility with your HP workstations! Our reliable add-ons improve data throughput and let you take advantage of more robust applications and tools, such as Windows/Motif.

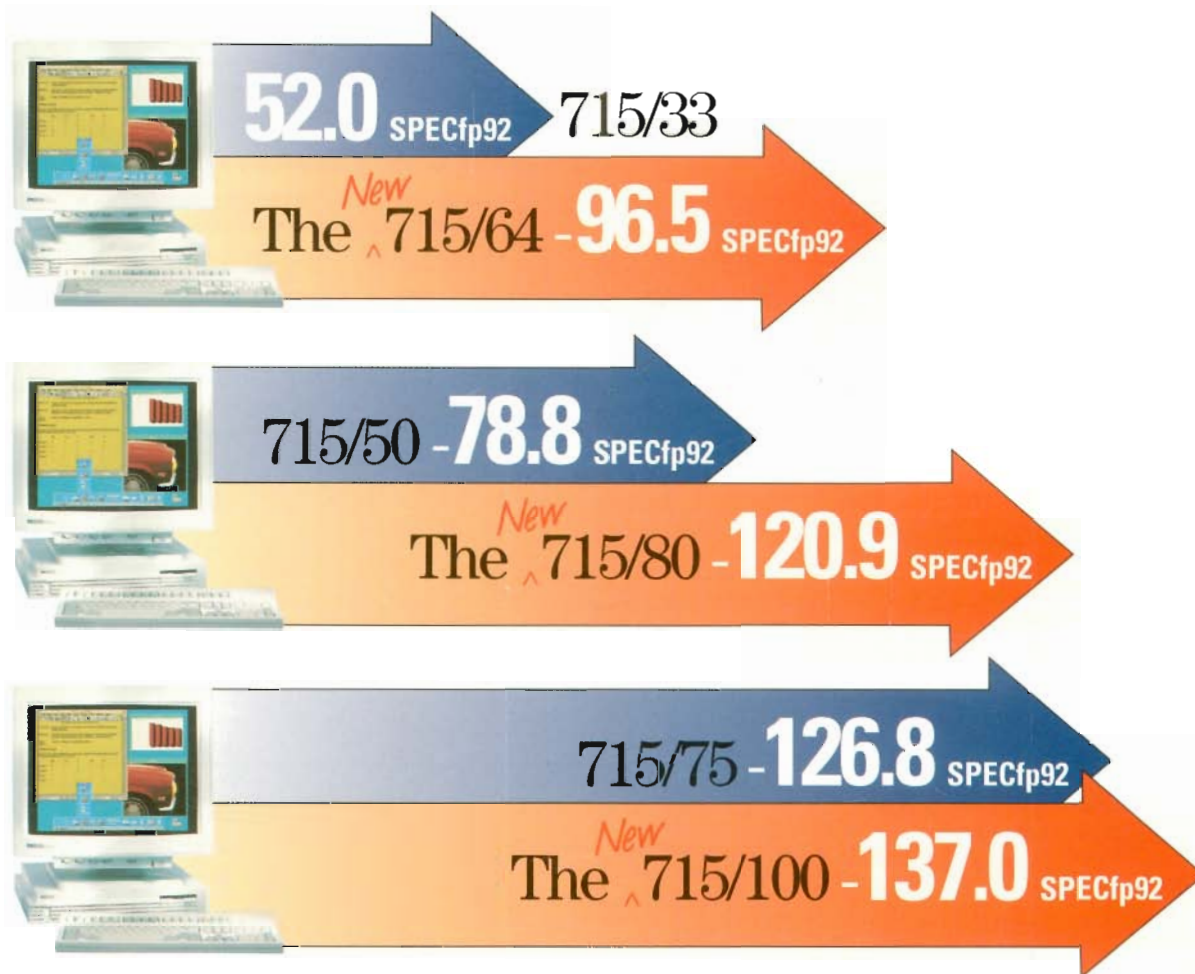
Series 700 RAM Ordering Information

System Model	Maximum Memory	Description	Comments	Product Number	Price
715/33	192 MB	8 MB RAM (Two 4 MB SIMMs)	Installs as pairs; Three pairs maximum	A2815A	\$ 640
		16 MB RAM (Two 8 MB SIMMs)	Installs as pairs; Three pairs maximum	A2816A	1,280
		32 MB RAM (Two 16 MB SIMMs)	Installs as pairs; Three pairs maximum	A2829A	3,840
		64 MB RAM (Two 32 MB SIMMs)	Installs as pairs; Three pairs maximum	A2827A	7,680
715/50	256 MB	8 MB RAM (Two 4 MB SIMMs)	Installs as pairs; Four pairs maximum	A2815A	640
715/75		16 MB RAM (Two 8 MB SIMMs)	Installs as pairs; Four pairs maximum	A2816A	1,280
725/50		32 MB RAM (Two 16 MB SIMMs)	Installs as pairs; Four pairs maximum	A2829A	3,840
725/75		64 MB RAM (Two 32 MB SIMMs)	Installs as pairs; Four pairs maximum	A2827A	7,680
720, 730	128 MB	16 MB RAM (Two 8 MB ECC RAM modules)	Installs as pairs; Four pairs maximum	A1979A	1,280
		32 MB RAM (Two 16 MB ECC RAM modules)	Installs as pairs; Four pairs maximum	A2512A	2,560
735	400 MB	32 MB RAM (Two 16 MB ECC RAM modules)	Installs as pairs; Six pairs maximum	A2512A	2,560
		64 MB RAM (Two 32 MB ECC RAM modules)	Installs as pairs; Six pairs maximum	A2646A	8,960
750	384 MB	32 MB RAM (Two 16 MB ECC RAM modules)	Installs as pairs; Six pairs maximum	A1987A	4,000
		64 MB RAM (Two 32 MB ECC RAM modules)	Installs as pairs; Six pairs maximum	A2646A	8,960
755	768 MB	64 MB RAM (Two 32 MB ECC RAM modules)	Installs as pairs; Six pairs maximum	A2513A	5,120
		128 MB RAM (Two 64 MB ECC RAM modules)	Installs as pairs; Six pairs maximum	A2518A	17,920

*Want more memory for HP's ^{New} Model 715 workstations?
See page 13.*

*Interested in additional
memory for your Model
712 workstations?
See page 11.*

New The [^]Model 715 workstations



At Hewlett-Packard, we've taken our popular Model 715 workstations and made them even better!

With greater performance at affordable prices, the Model 715/64, 715/80, and 715/100 workstations are the industry's fastest 2D workstations. And, when you're looking for the fastest mid-range 3D graphics performance and best 3D entry-level price/performance, these new workstations have it!

Find out about the *New* [^]Model 715 workstations on page 12.