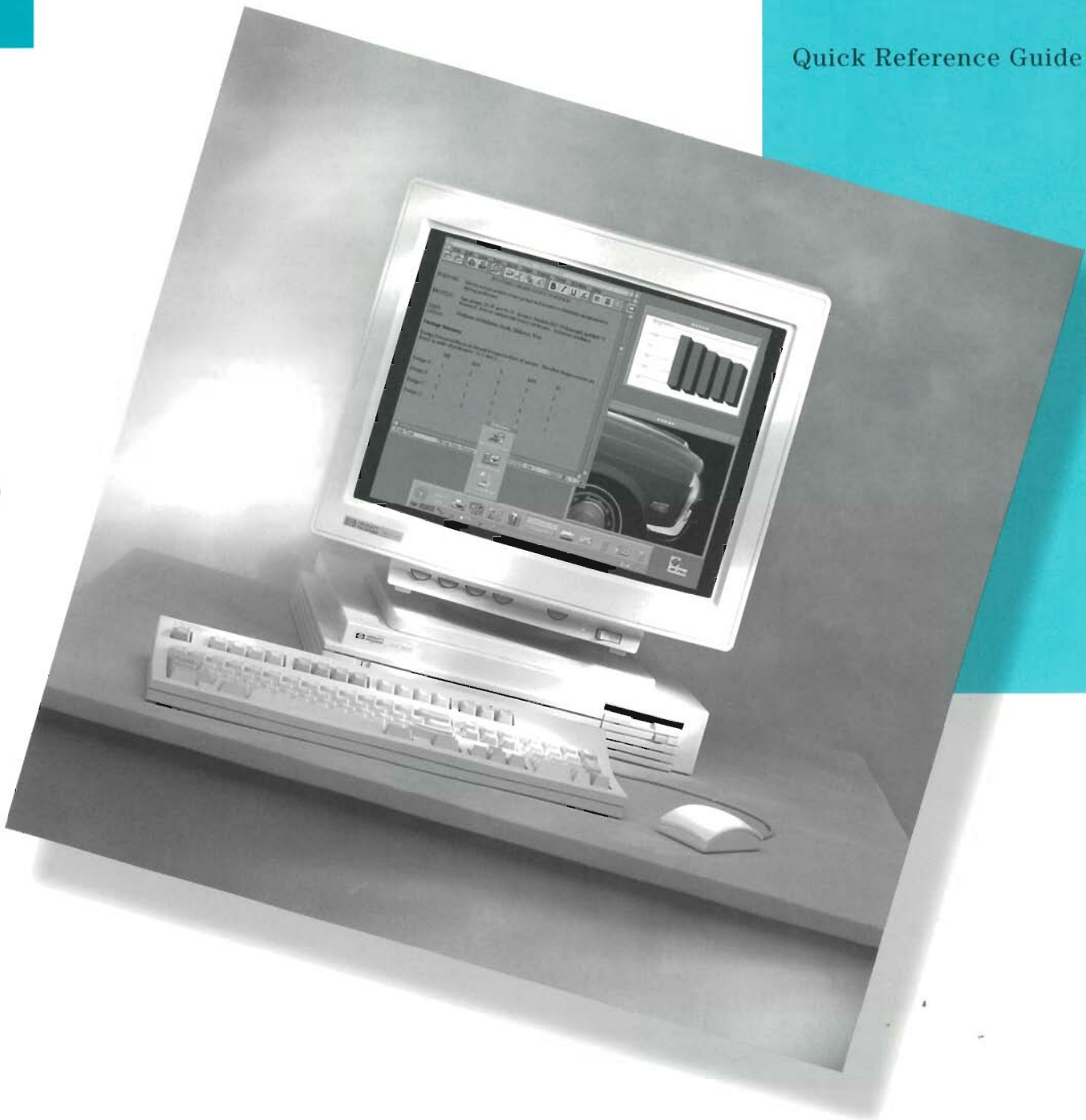


Quick Reference Guide



HP 9000 Series 700

Models 712/60 and 712/80i

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ith the HP 9000 Models 712/60 and 712/80i, Hewlett-Packard sets a new performance standard for entry-priced enterprise workstations.

Built for today's advanced enterprise desktop applications, the 712/60 and 712/80i deliver an exceptional level of price/performance, ease-of-use and networking functionality. They provide high-quality graphics, outstanding integer performance and are equipped with a complete workstation architecture and feature set, including multimedia support.

The 712/60 and 712/80i are designed for easy installation, expansion and serviceability. Both models are as simple to configure as stereo components, with plug-in memory modules and disks.

On the following pages, you'll learn more simple facts about how the HP 9000 712/60 and 712/80i workstations provide high performance enterprise desktops at low, entry-level prices.

With HP, Your Investment is Secure
When you invest in HP's 712/60 and 712/80i workstations, you get something only HP can offer — our proven commitment to innovative, standards-based products. For years, HP has been an industry leader in the design of transparent networks, advanced development tools and sophisticated user interfaces.

With HP products, you can count on a level of quality, long-term support and service that is unequaled in the industry. HP also protects your investment with some of the industry's most innovative upgrade programs, so the solutions built today will continue to pay off for years to come.

Popular Application Areas for 712/60 and 712/80i Workstations

The HP 712/60 and 712/80i's high performance levels and low prices make them ideal for emerging enterprise desktop applications in these areas:

- Financial Services
- Customer Service, e.g., Telecommunications, Financial Brokers
- Brand Management
- Commercial Application Development

Their compute power, graphics capabilities and network flexibility also make the 712/60 and 712/80i excellent entry-level workstations for 2-D CAD users, including electrical engineers, mechanical engineers and technical CASE users.

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HP 712/60 and 712/80i Workstations Outperform the Competition

Model Name	HP 9000 Series 700 Model 712/60	HP 9000 Series 700 Model 712/80i	Silicon Graphics Indy PC/SC	IBM POWERstation M20/25T	DEC 300L/ DEC 300	Sun SPARCclassic	Sun SPARCstation: LX
Package	Desktop/side	Desktop/side	Desktop	Desktop/side	Desktop	Desktop	Desktop
Ship Date	Q1 94	Q1 94	Q4 93	Q1/Q4 93	Q2 93	Q4 92	Q4 92
Performance							
SPECint 92	56	78	34/58	17.3/62.6	45.9/66	26.4	26.4
SPECfp 92	78	78	35/60	29.1/72.2	63.6/91.5	21.0	21.0
MFLOPS	13	16	Not released/ 16.3	6.6/12.7	12.3/24.5	4.6	4.6
System Design							
Type Processor	PA7100LC	PA7100LC	R4000PC/ R4000SC	Power/ PowerPC	21064	MicroSPARC	MicroSPARC
Max # Processors	1	1	1	1	1	1	1
CPU Clock Speed	60 MHz	80 MHz	50 MHz	33.3/66 MHz	100/150 MHz	50 MHz	50 MHz
# I/O Slots	2	2	2	1/2	0/2	2	2
Configuration							
RAM Min./Max	16/128 MB	16/128 MB	16/256 MB	16/64 MB 16/256 MB	32/256 MB	16/96 MB	16/96 MB
Disk Int. Max.	1 GB	1 GB	2 GB	0/2 GB	2.1 GB	1 GB	1 GB
Disk Total Max.	14 GB	14 GB	48 GB	7/30 GB	7.35/22 GB	22 GB	22 GB
Graphics							
X11 Vectors	1,100 K	1,400 K	1,000/1,400 K	179/1,620 K	579 K (Estimate)	48 K (Estimate)	480 K
Xmark	5.9	8.4	Not released	Not released/10.3	Not released	Not released	Not released
Displayable Colors	8 million	8 million	256 (Optionally expanded)	256	256	256	256

Answers to Some Commonly Asked Questions

Q. What's the difference between the 712/60 and 712/80i?

A. The 712/80i uses an integer-optimized design, coupled with a faster internal clock rate and added memory to boost the speed of integer calculations. This added performance increases graphics response and further improves the speed of many applications, particularly those run through PC emulation software. The two models are identical in all other ways.

Q. Does HP offer PC emulation software for the 712/60 and 712/80i?

A. Yes. HP WABI™ is a PC emulation package that vastly improves the performance of Windows applications over the previous generation of PC emulation software. HP Wabi lets 712/60 and 712/80i users run Windows applications right out of the box. It also provides an unprecedented level of integra-

tion of Windows programs into the HP VUE desktop.

We also recommend SoftWindows™ PC emulation software from Insignia Solutions for users who need access to:

- MS-DOS applications.
- More than the 13 "certified applications" supported by HP Wabi.
- PC servers, such as Novell Netware and LAN Manager.

Q. What is the advantage of using HP Ready-to-Wear with the 712/60 and 712/80i?

A. HP Ready-to-Wear (RTW) is a standards-based, easy-to-use interface that enables non-UNIX users to operate 712/60 and 712/80i desktop workstations. In addition to making end users more productive, RTW frees information technology managers to focus on core business issues.

712/60 and 712/80i Facts

Model:	712/60	712/80i
Performance Level:	56 SPECint92 78 SPECfp92	81 SPECint92 78 SPECfp92
Processor (PA7100LC):	60 MHz 64 KB + 1 KB On-chip Instruction and Data (shared)	80 MHz 256 KB + 1 KB On-chip Instruction and Data (shared)
Graphics:	Color, 8-plane 2D, Wireframe	Color, 8-plane 2D, Wireframe
Memory:	16-128 MB	16-128 MB
Internal Disk:	1 GB	1 GB

712/60 and 712/80i Workstations Configuration Worksheet

1 REQUIRED: Select the base system.

- ☐ 712/60 A4023A
☐ 712/80i A4027A

2 REQUIRED: Select ONE monitor.

- ☐ 11.8" Flat Panel* #AQ2
☐ 15" (1024x768)† #AQ3
☐ 17" (1024x768) #AQ4
☐ 17" (1280x1024) #AQ5
☐ 19" (1280x1024) #ADJ

* Available 2/94 † Only available on 712/60

3 REQUIRED: Select ONE memory configuration.

- ☐ 16 MB (2-8MB) #ANB
☐ 24 MB (2-8MB/2-4MB) #ANF
☐ 32 MB (4-8MB) #ANC
☐ 32 MB (2-16MB) #UFS
☐ 64 MB (2-32MB) #ANE

4 REQUIRED: Select ONE only internal disk.

- ☐ 260 MB Single-Ended SCSI II #ATK
☐ 525 MB Single-Ended SCSI II #AT9
☐ 1 GB Single-Ended SCSI II #AT7

5 OPTIONAL: Select ONE only factory integrated removable media.

- ☐ 1.4 MB 3.5" Floppy #AMB

6 OPTIONAL: Select ONE only networking options.

- ☐ Second Serial Interface Port #UGA
☐ Second LAN AUI Port/Second Serial Port #UGB
☐ X25 Port/Second Serial Port*(avail.2/94) #UGC
☐ HP Token Ring/9000* #AL4

* Software on DDS tape

7 OPTIONAL: Select ONE support option.

- ☐ 1 Year, Next Day #OS0
☐ 1 Year, 4 Hour #OS1
☐ 1 Year, Next Day Phone #OS2
☐ 1 Year, 4 Hour Phone #OS3
☐ Installation #OS4

8 REQUIRED: Workstation localization kit (keyboard, mouse, power cord & documentation).

- ☐ PC-101 Keyboard A4030A

9 REQUIRED: Localized options (see Nov.'92 price guide for complete list).

- ☐ North American Local Option #ABA
☐ Other _____

10 OPTIONAL: Select HP-UX documentation.

- ☐ HP-UX Documentation B2355B

11 OPTIONAL: HP-UX 9.0 Instant Ignition.

- ☐ English Desktop B3530AA
☐ Japanese Desktop* B3530AJ
☐ German Desktop B3530AD
☐ French Desktop B3530AF
☐ Spanish Desktop B3530AE
☐ Italian Desktop B3530AZ
☐ Korean Desktop* B3530AV
☐ English Run-Time* B2910A
☐ Japanese Run-Time* B2911A
☐ German Run-Time* B2912A
☐ French Run-Time* B3485A
☐ Spanish Run-Time* B3531AE
☐ Italian Run-Time* B3531AZ
☐ Korean Run-Time* B3531AV

* not available with 260 MB disk configurations

REQUIRED: Operating System for Instant Ignition.

- ☐ HP-UX 9.0 version APH

12 OPTIONAL: Add-ons.

Internal Storage Devices

- ☐ 260 MB Single-Ended SCSI II A4065A
☐ 525 MB Single-Ended SCSI II A4066A
☐ 1 GB Single-Ended SCSI II A4067A
☐ Floppy Disk kit A4068A

External Storage Devices

- ☐ 1 GB Disk A2657A
☐ CD-ROM Drive A2655A
☐ 2 GB DAT Drive A2656A

Other Options

- ☐ Second Monitor Port A2878A
☐ Second Serial Port A4013A
☐ Second LAN and Serial Port Card A4014A
☐ with Optional Software Driver DDD Tape #AAH
☐ X.25 and Second Serial Port Card A4015A
☐ with Optional Software Driver DDS Tape #AAH
☐ HP Token Ring/9000 Card A4011A

13 OPTIONAL: Select HP TeleShare, (orderable 2/94).

- ☐ TeleShare Card A4012A
☐ with Driver Software on DDS Tape #AAH
☐ Factory installation hardware/software #OD1
☐ U.S. TeleShare #ABA



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