

# HP Apollo Series 700 Model 735 Workstation



## Series 700 Model 735 Overview

The PA-RISC HP Apollo Series 700 Model 735 delivers the highest performance on a desktop. Integrated graphics include the industry's fastest X11, 2D/3D vector performance, and 48-plane solids performance on a desktop.

The well balanced Model 735 matches a high-performance CPU with a powerful I/O subsystem, providing high throughput to disks and networks and resulting in leading-edge application performance.

The Model 735 supports the HP-UX UNIX operating system. Exceptional ease of use is provided through the HP VUE user interface, based on OSF/Motif.

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Features		Benefits
<b>CPU Performance (99MHz PA-RISC 7100 Processor)</b>		
147 SPECint92	60 SPECint 92	• Industry's highest-performance desktop workstation
150 SPECfp 92	124 MIPS Integer	• Speeds technical computations
40 MFLOPS Floating Point (FP)	<b>Graphics Options</b>	
GRX (Grayscale, 19", 1280 x 1024, 72 Hz)	971,000 X11 vectors/sec	• Industry's fastest X11 windowing performance. Improved productivity in CASE, DTP, and commercial applications
1.16 million 2D/3D vec/sec	8-plane grayscale	• 256 shades for increased comprehension
CRX (8-plane color, 19", 1280 x 1024, 72 Hz)	971,000 X11 vectors/sec	• Leadership windowing and vector performance ideal for design, engineering, and scientific applications
1.16 million 2D/3D vec/sec	8-plane color	• Smooth manipulation of large models
88-plane double buffering	24-plane color + 8 overlay planes	• 256 colors from a palette of 16.7 million
CRX 24 (24-plane color, 2D/3D wireframe and visualization, 19", 1280 x 1024, 72 Hz)	12/12-plane double buffering	• Allows smooth movement of dynamic images
652,000 X11 vectors/sec	24-plane color + 8 overlay planes	• Leadership 24-plane windowing and vector performance
652,000 2D/3D vectors/sec	12/12-plane double buffering	• Ideal for scientific visualization applications
150,000 3D anti-aliased vectors/sec	24-bit hardware Z buffer	• 16.7 million colors, true-color; provides for text and graphics overlay
175,000 triangles/sec; 95,000 quads/sec	24-bit hardware Z buffer	• High-performance hidden line and surface removal
24-plane color + 8 overlay planes	Dual CRX	• Allows smooth movement of dynamic images
24-bit hardware Z buffer	CRX 482 (24-plane, accelerated, double-buffered color, 19", 1280 x 1024, 72 Hz)	• Support of two 19" 1280 x 1024 color monitors for increased screen space
24/24 plane double buffering	1.24 million X11 vectors/sec	• Leadership windowing performance
Graphics Software	1.2 million 3D anti-aliased vectors/sec	• Highest-performance rendering allows manipulation of the largest models
X11R5, PEX, PHIGS, Starbase, PowerShade	600,000 triangles/sec; 150,000 quads/sec	• Real-time rendering of large 3D models
Memory and Cache	24-plane color + 8 overlay planes	• Realism eliminates errors and reduces costly prototype cycles
32-400MB ECC RAM; 256KB Instr. Cache; 256KB Data Cache	24-bit hardware Z buffer	• High-performance hidden line and surface removal
Mass Storage and Removable media	24/24 plane double buffering	• Allows smooth movement of dynamic images
520MB - 3GB Internal Disk	Dual CRX	• Support of two 19" 1280 x 1024 color monitors for increased screen space
125-4GB max. Disk with Disk arrays	Graphics Software	• Speed and realism through standards enhance the capabilities of all applications
600MB CD ROM, 2GB 4mm DDS (DAT), up to 8GB DPs-DC (DAT), Floppy Drive, re-writable optical drive, 9 track 1/2" tape drive	X11R5, PEX, PHIGS, Starbase, PowerShade	• Low-cost access to dynamic shading and highly realistic renderings
Standard Interfaces	Memory and Cache	• Improves application performance
Integrated I/O Subsystem: IEEE 802.3 (Thick or Thin); single-ended SCSI-II, fast-wide SCSI-II, RS 232C(2); CD-quality audio, (optional) FDDI, Centronics, HP-III, Available EISA options: FDDI, x.25, IEEE 802.5 token ring, HP-IB, fast differential SCSI, SNA, Apollo Token Ring, ISDN, IEEE 802.3	Mass Storage and Removable media	• A wide range of mass storage options for easy access to large amounts of data
Cooperative Computing Products	520MB - 3GB Internal Disk	• Increased capacity, reliability, and performance
NCS, Passwd Etc., OpenView Network Node Manager TaskBroker, NetIs	125-4GB max. Disk with Disk arrays	• Low-cost, high-performance
User-friendly Features	600MB CD ROM, 2GB 4mm DDS (DAT), up to 8GB DPs-DC (DAT), Floppy Drive, re-writable optical drive, 9 track 1/2" tape drive	• Allows quick and easy integration in heterogeneous networks
HP VUE, OSF/Motif, X11 Window System	Standard Interfaces	• Simple connection of high-speed, low-cost disks and other peripherals
Instant Ignition	Integrated I/O Subsystem: IEEE 802.3 (Thick or Thin); single-ended SCSI-II, fast-wide SCSI-II, RS 232C(2); CD-quality audio, (optional) FDDI, Centronics, HP-III, Available EISA options: FDDI, x.25, IEEE 802.5 token ring, HP-IB, fast differential SCSI, SNA, Apollo Token Ring, ISDN, IEEE 802.3	• Supports distributed applications; provides users with access to all available power on the network
	Cooperative Computing Products	• Allows the licensing of applications based on actual usage; easy network administration
	NCS, Passwd Etc., OpenView Network Node Manager TaskBroker, NetIs	
	User-friendly Features	• Ease of use through standards
	HP VUE, OSF/Motif, X11 Window System	• Provides immediate productivity through a pre-installed and pre-configured environment
	Instant Ignition	

