

HP 9000 Series 800 Models 825CHX & 835CHX Graphics Superworkstations



Interactive zoom . . . bringing you closer to the power to see as you think.

In today's competitive environment there is increasing pressure to bring products to market faster. You constantly face impossible schedules and critical deadlines.

The Models 825CHX and 835CHX graphics superworkstations help you meet demands by dramatically increasing user productivity through enhanced interactivity.

HP has made near real time interactivity possible by combining unequalled SPU performance, complimentary system software and powerful graphics applications.

Improved vector performance and bit addressability make screen updates virtually instantaneous. Zooming into or panning across specific image areas is fast and easy. User attention and concentration is kept high as the CHX rapidly processes changes or additions to the work.

Performance doesn't stop with interactivity. Both CHX models offer high screen resolution to display informative, detailed images.

Display quality, SPU power and the latest in 2D graphics technology add up to an outstanding choice of superworkstations that offer computing power that keeps up with the user's natural, real time thought processes.



HP Models 825CHX and 835CHX superworkstations are designed to increase your productivity through enhanced graphics interactivity. These benefits are achieved through a near-perfect balance of outstanding SPU performance, graphics technology, and powerful, industry recognized software such as Starbase, HP-GKS and X Window System.

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HP Precision Architecture means high performance and low cost of ownership

The HP 9000 Series 800 graphics superworkstations offer computing power where superior performance and high quality meet low cost . . . where simpler means better, faster and more reliable. Reduced Instruction Set Computing (RISC) architecture where a simplified instruction set wired directly to hardware delivers superior performance with less money. Hewlett-Packard has gone beyond RISC to create the powerful HP Precision Architecture family of superworkstations.

With reduced complexity design, our systems have fewer components which means higher reliability and lower cost of ownership. The HP Precision Architecture family is based on standard UNIX® operating system, and adheres to current, and plans for future industry standards in networking, languages, graphics and data bases. Through standards you can cut applications development costs while your investment remains secure and protected.

HP is the first major computer manufacturer to combine a 32-bit RISC architecture and the UNIX operating system with real time enhancements in a scalable family of compatible computers. The same applications software, peripherals and I/O cards may be used with all of the Series 800 systems.

Choose your level of performance

Today's demanding markets need powerful computing tools that offer strong SPU performance and interactive graphics for demanding applications.

Through engineering excellence, the Models 825CHX and 835CHX 2D graphics superworkstations are designed to balance SPU performance with interactive graphics subsystems.

For integer-based computational applications such as printed circuit board layouts, your right choice is the Model 825CHX, our low cost graphics superworkstation.

For more computationally demanding applications like integrated circuit simulation, weather mapping and other general scientific applications, HP offers the Model 835CHX graphics superworkstation.

The new SPU enhancement in the Model 835CHX gives 50% faster integer performance and more than 3X the floating point math performance of the Model 825CHX. Each model also features an integer-based graphics accelerator.

Regardless of the model you choose, you can be sure your investment is protected long-term. The Model 825 is field upgradable to the Model 835, and

A wide range of applications can benefit from the powerful Models 825CHX and 835CHX graphics superworkstations. Screen image supplied by DELTASYSTEMS.



HP Computer Museum
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Specifications

	(2D) 825CHX	(2D) 835CHX
CPU		
Type	HP Precision Architecture	HP Precision Architecture
Word Size	32 bits	32 bits
Virtual Memory		
Address Space	48 bits	48 bits
Physical Address Space	29 bits (512 Mbytes)	29 bits (512 Mbytes)
Cache Memory	16 Kbytes	128 Kbytes
Instruction Cycle Time	80 nsec	66.7 nsec
Average CPU Throughput	16,672 Dhrystones	23,430 Dhrystones
Floating Point Coprocessor		
Floating Point Performance	.65 MFLOPS (double precision Linpacks)	2 MFLOPS (double precision Linpacks)
Floating Point Format	ANSI/IEEE 1985 Standard	754-ANSI/IEEE 1985 Standard
Capacity		
Memory	8-96 MB ECC RAM	8-96 MB ECC RAM
I/O Slots	Seven	Seven
Power		
Line	48-66 Hz	48-66 Hz
Current	9.5A @ 100 Vac 8.0A @ 120 Vac 5.3A @ 240 Vac	9.5A @ 100 Vac 8.0A @ 120 Vac 5.3A @ 240 Vac
Power Consumption	600 Watts max.	600 Watts max.
Size And Weight Of SPU		
Size	234 mm x 325 mm x 500 mm 9.2" x 12.8" x 19.7"	234 mm x 325 mm x 500 mm 9.2" x 12.8" x 19.7"
Weight	23 kg (~50 lb.)	23 kg (~50 lb.)
GRAPHICS SUBSYSTEM:		
Monitor		
Type	Color	Color
Resolution	1280 x 1024	1280 x 1024
Size		
Standard	19 inch diagonal	19 inch diagonal
Optional	16 inch diagonal	16 inch diagonal
Frame Buffer		
Size	2048 x 1024 per plane	2048 x 1024 per plane
Planes	8	8
Overlay Planes	2	2
Z-Buffer	N/A	N/A
Displayable Colors	256	256
Color Palette	16.7 million	16.7 million
Graphics Accelerator	Integer-based	Integer-based

For more information, call your local HP sales office listed in your telephone directory or an HP regional office listed below for the location of your nearest sales office.

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X Window System™ is a trademark of Massachusetts Institute of Technology.

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HP-UX complies with the proven industry-standard UNIX System V Interface Definition, Issue 2, Volume 1.



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