



hp visualize
pl-class
Linux
workstations



data sheet

Designed for your engineering desktop

The **hp** visualize pl733, pl800 and pl866 Linux® workstations are ideal for work with locally executed IC design tasks. They power your software applications with single or dual 733, 800 or 866MHz Intel® Pentium® III processors with Advanced Transfer Cache. HP also supports the **hp** pl-class Linux workstations with the preloaded Red Hat® Linux 6.2 operating system for a reliable, cost-effective Linux solution.

The power of an **hp** visualize personal workstation combined with the flexibility and stability of UNIX® makes for one incredible solution to your toughest high-end computation tasks. The **hp** visualize Linux workstations give you the power to design, the power to invent and the power to deliver your designs completely.

**hp visualize pl-class
Linux workstation**

feature	benefit	advantage
Single or Dual Intel Pentium III 733, 800 or 866MHz Processor(s)	Advanced transfer cache boosts power and efficiency behind demanding applications.	Provides superior computing performance with Intel's latest on-die 256K level 2 cache.
hp visualize memory architecture	Provides up to 20% performance gain over RDRAM based systems.	Utilizes affordable 133MHz SDRAM for more cost-effective large memory implementations.
Mass storage expandability: up to 36GB internal disk	Provides hard disk space and performance needed to work on large models and multiple designs.	Ultra Wide SCSI 3's high data throughput and up to 36GB of storage mean greater productivity.
Red Hat Linux 6.2	Preloaded Red Hat Linux 6.2 assures easy startup.	Enjoy all the benefits of this widely implemented open source operating system.
hp technical support	Expert assistance for your Linux needs from one accessible, convenient source.	HP bundles full support for faster problem resolution. HP also offers extended technical support packages.
Up to 2GB Capacity SDRAM	Larger capacity for more demanding applications and complex designs.	High memory capacity at low density memory prices.
hp instant network connection tool	Simple, intuitive site-specific networking configuration allows users of all skill levels to connect to their networks.	Advanced administration and management of system components and settings.
hp maxilife II	Integrated with hp toptools for remote administration and monitoring.	Increases reliability and provides hardware self-diagnosis.
professional graphics		
hp visualize fx ⁶ & fx ¹⁰ graphics accelerators	Provides superior application performance for the largest, most complex visualization tasks.	HP visualize fx ¹⁰ delivers the fastest graphics performance on Windows NT with 6 PA-RISC geometry engines. HP visualize fx ⁵ delivers exceptional graphics performance with 3 PA-RISC geometry engines.
Occlusion culling; integrated texture mapping engine	These features deliver increased photo-realism, visual analysis, simulation and animation performance.	Eliminates drawing of hidden objects; allows added functionality of hardware shadow casting and accumulation buffer.
Full-scene anti-aliasing hardware accumulation buffer; hardware shadow casting	Eliminates jagged edges, allows for more accurate display of very small features; advanced features previously only available with UNIX graphics super-workstations.	Excellent for surface detail; provides soft shadows, motion blur and object processing creates photo-realistic shadows and allows object self-shadowing.
entry-level graphics		
ELSA Synergy II	Delivers excellent 2D and 3D graphics performance at an entry price point.	Provides excellent application performance for small visualization tasks.

hp pl-class technical specifications

central processor	
Type	Pentium III
Clock Frequency	733, 800 or 866MHz
Number of Processors	1-2
cache (on-chip)	
	256K L2
main memory	
Bus bandwidth	2.0GB/sec
RAM type	SDRAM PC 133
Capacity	2GB
Memory slots	4 DIMMs
operating system	
	Red Hat Linux 6.2 (HP-supported)
internal storage devices	
Up to 3 devices, 36GB max:	
Ultra 3/160 SCSI	9GB, 10K rpm 18GB, 10K rpm
PCI slots (4 total)	
PCI 1X	3 - 32b 33MHz 5V
PCI 4X	2 - 64b 66MHz 3.3V
SCSI device connectivity	
The integrated Ultra 160/m SCSI cards has 4 connectors:	
Connector 1	68-pin external connector for LVD SCSI devices
Connector 2	68-pin internal connector for LVD SCSI devices
Connector 3	68-pin internal connector for Wide SE SCSI devices
Connector 4	50-pin internal connector for Narrow SE SCSI devices
removable media	
Floppy Drive	Integrated 3.5" Floppy Drive
CD Drive(s) / up to 2 CD devices	48X CD-ROM
networking	
LAN Data Rate	RJ45 10/100Mbps



HP visualize personal workstations – helping you to invent, design and deliver. The latest information about **hp** visualize workstations, including Linux, Windows and UNIX systems, is available at <http://www.hp.com/visualize>

other I/O	
Serial interface 9-pin DIN	2 ports
Parallel interface 25-pin DIN	1 port
audio	
Type	18-bit stereo full-duplex
monitors	
	18.1" Flat Panel LCD 19" Flat Screen 21" Flat Screen 24" Wide Aspect
environmental specifications	
Altitude	
Operating	3100m (10000 ft.) max
Storage	3100m (10000 ft.) max
Temperature	
Operating	+5°C to +35°C (+41°F to +95°F)
Non-operating	+5°C to +35°C (+41°F to +95°F)
Humidity	
Operating	15% to 80% (relative)
physical dimensions	
Height	48.30cm (19.02 in)
Width	20.87cm (8.22 in)
Depth	47.30cm (18.62 in)
net weight	
Minimum configuration	15.93 kilograms (35.11 lbs)
power requirements	
Input current	9.0 A @ 100-127Vac 4.5A @ 200-250Vac
Line frequency	50Hz to 60Hz
Maximum power input	100-127 or 200-250Vac
hp visualize graphics	
Graphics Accelerators	hp visualize <i>fx⁶</i> or <i>fx¹⁰</i>
Texture Memory	up to 64MB max
Geometry Engines	3 PA-RISC (hp <i>fx⁶</i>) 6 PA-RISC (hp <i>fx¹⁰</i>)
<p>hp visualize <i>fx⁶</i> and <i>fx¹⁰</i> performance results can be found at: http://www.hp.com/visualize/products/performance.html</p>	
entry-level graphics	
Graphics Board	ELSA Synergy II

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