sgi™

Silicon Graphics® 330 Visual Workstation with VPro™ Graphics

Silicon Graphics 330 Visual Workstation for Windows®

Silicon Graphics 330L Visual Workstation for Linux®

A Scalable Graphics Solution Designed for Maximum Flexibility

The Silicon Graphics 330 visual workstation provides a scalable graphics solution at affordable prices. Customers are afforded maximum flexibility in tailoring the amount of processing power to their exact needs. Offering the ultimate in technical, creative, and scientific tools for visualization, Silicon Graphics 330 incorporates a state-of-the-art Intel® architecture with Silicon Graphics visualization subsystems, setting a new standard for graphics performance on Windows and Linux operating systems. As the midrange system of the Silicon Graphics family of visual workstations, the 330 offers scalability, reliability, flexibility, and solid price/performance. High-quality graphics for digital content creation, CAD/CAE, scientific visualization, education, and government have never been more accessible.

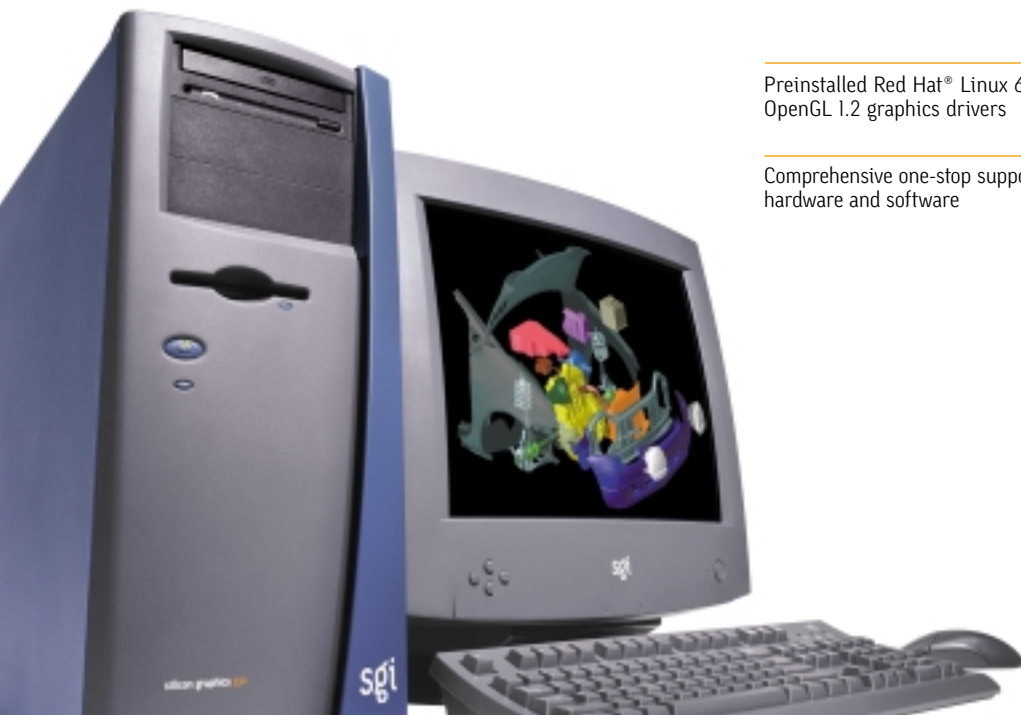| Features	Benefits
Silicon Graphics VPro graphics subsystem includes an OpenGL on a Chip™ implementation, an accelerated geometry pipeline, and professional texture mapping capabilities	Provides unprecedented application and system performance; fully OpenGL® 1.2 conformant and accelerated
Hardware-accelerated transform and lighting	Allows more realistic object behaviors and character animation, as well as significantly more complex 3D modeling; frees up CPU for intensive computations
Single or dual Intel Pentium® III processor (Via Apollo Pro 133A chipset)	Provides superior computing performance featuring fast on-die 256KB Level 2 Advanced Transfer Cache; the scalable design and flexible architecture allow the customer to add only the amount of processing power needed
Intel based system utilizing industry-standard architecture and components	Incorporates renowned SGI graphics capabilities in a cost-effective, reliable, and flexible system that is easy to upgrade, maintain, and support
Flexible, intelligently designed system	Easy, toolless access for upgrade, customization, and expansion to meet growing needs for storage, memory, and graphics
Preinstalled and certified Windows NT® 4.0 or Windows 2000 Professional	System is ready for business applications and software with Windows professionally installed and tested for system compliance
Preinstalled Red Hat® Linux 6.2 and OpenGL 1.2 graphics drivers	System is ready to power on with the industry's first fully hardware-accelerated OpenGL graphics
Comprehensive one-stop support for both hardware and software	Leverages SGI's enterprise experience in global services: 90-day software and 3-year hardware support, including first-year on-site warranty service for Linux and Windows

Silicon Graphics 330 Visual Workstation
Technical Specifications

Core Logic Chipset
· Via Apollo Pro133A

Processor Support (Single or Dual)
· 866 MHz Pentium III 256KB on-chip cache
· 933 MHz Pentium III 256KB on-chip cache
· 1 GHz Pentium III 256KB on-chip cache

Memory Capacity
· 128MB–1.5GB PC133 ECC registered SDRAM[1]

System Graphics
· 1280x1024 at 75 Hz
· Up to 2048x1536 at 60 Hz

Graphics Features
VPro V7 and VR7
· VPro V7 is a high-performance graphics solution equipped with a complete set of workstation capabilities for the mainstream professional. Based on NVIDIA second-generation GPU technology, the V7 board features a high-performance 256-bit graphics pipeline for 2D and 3D rendering, versatile TwinView™ dual monitor support, and Digital Vibrance Control (DVD) for enhanced on-screen image quality. The V7 includes multiple output options, including a standard VGA connector and DVI-1 for flat panel display and digital monitor compatibility. In addition, the V7 supports NVIDIA Unified Driver Architecture (UDA), which provides driver compatibility with past, present, and future NVIDIA graphics processors. The V7 supports AGP 4X/2X with Fast Writes. Additional features include integrated transform and lighting, 350 MHz RAMDAC, high-speed memory interface, 32-bit Z stencil buffer, and complete support for Microsoft® DirectX 7 and OpenGL features. The VR7 board incorporates all the features of the V7 except for TwinView support. In addition, the VR7 has twice the graphics memory (64MB DDR) and has support for anti-aliased points and lines, which is important for workstation applications in the MCAD and DCC market. Offers dual independent display as an option.

Storage and I/O
· Two external 5.25" drive bays
· One external 5.25" 48X CD-ROM (preinstalled)
· Three internal 3.5" hard drive bays
· One external 3.5" floppy drive (preinstalled)
· Integrated ATA66 controller

Communication
· Two 9-pin serial ports (16550 UART)
· One 25-pin parallel port
· Two Universal Serial Bus (USB) ports
· One PS/2 mouse port
· One PS/2 keyboard port
· On-board audio: Analog Devices AD1881 chip

Display and Media Options
Display
· 19" color monitor
· 21" color monitor
· Silicon Graphics® 1600SW flat panel display

Media
· 8x40x DVD
· 8x4x32x CD-RW

Expansion Options
· Five 32-bit PCI slots
· Dual-channel SCSI controller

Networking
· On-board NIC 10/100Base-T: Intel 82559

Storage Options
· 9.1GB Ultra160 SCSI drive (7,200 RPM)
· 18.2GB Ultra160 SCSI drive (7,200 RPM and 10,000 RPM)
· 36.4GB Ultra160 SCSI drive (10,000 RPM)

Bundled Software (Windows)
· Windows NT 4.0
· Windows 2000 Professional
· PC Doctor (Diagnostic Software)
· McAfee VirusScan
· Internet Explorer
· Adobe® Acrobat Reader®

Bundled Software (Linux)
· Red Hat Linux 6.2
· SGI ProPack for Linux™ 1.3 Visual Workstation Edition—includes support for Red Hat 6.2, TurboLinux 6.0, and SuSE 6.4
· SGI Visual Workstation Edition 3.0 for Linux—includes support for Red Hat 6.2 and TurboLinux 6.0

Physical Dimensions
· 8.25" W x 19.25" H x 19.25" D
· 31 lb
· 19" monitor: 18.4" H x 18" W x 18.8" D
· 21" monitor: 19.3" H x 19.6" W x 18.6" D
· 1600SW flat panel display: 18.3" H x 17.8" W x 7.3" D

Voltage and Frequency
· Japan: 100 VAC 6.10 A
· North America: 120 VAC 5.10 A
· Europe: 230 VAC 2.66 A

Heat Dissipation
· 1,460.7 BTUs/hour

Ambient Temperature
· +10 to +35°C (operating)
· -20 to +60°C (nonoperating)

Relative Humidity
· 10% to 90% (operating and nonoperating)

Altitude
· 10,000 ft (operating)
· 40,000 ft (nonoperating)

Vibration
Operating
· 5–16.2 Hz 0.38 mm (peak to peak)
· 16.2–250 Hz 0.2G
· Direction: X, Y, Z axis

Nonoperating (Packaged)
· 5–27.1 Hz 0.6G
· 27.1–50 Hz 0.4 mm (peak to peak)
· 50–500 Hz 2.0G
· Direction: X, Y, Z axis

Regulatory Agencies
· USA: UL, FCC (CFR 47 Part 15 Subpart B), FCC Telecomm. CFR 47 Part 68
· Canada: CSA, CSA/NRTL, DOC
· Japan: VCCI
· Europe: CE Mark, CB, TUV
· Australia: C-Tick
· Korea: EMC
· Mexico: NOM
· Taiwan: BCIQ

[1]Linux configurations support up to 968MB of main memory