

Silicon Graphics® 550 Visual Workstation with VPro™ Graphics

Silicon Graphics 550 Visual Workstation for Windows®

Silicon Graphics 550L Visual Workstation for Linux®

A Scalable Graphics Solution Designed for Maximum Performance

The Silicon Graphics 550 visual workstation is designed to accommodate the most demanding power users in the CAD, digital content creation, and scientific visualization markets. As the high end of the Silicon Graphics workstation family for Windows and Linux, the 550 features advanced graphics processing, lightning-quick processing power, and industry-leading expansion. Offering the ultimate in technical, creative, and scientific tools for visualization, Silicon Graphics 550 incorporates a state-of-the-art Intel® architecture with Silicon Graphics subsystems to set a new standard for graphics performance on Windows and Linux operating systems. With additional 32-bit and 64-bit expansion slots, complete AGP Pro 4X compliance, and the latest in large storage capacity and memory expansion, this high-performance system provides power and flexibility in a reliable, cost-effective package.



Features

Silicon Graphics VPro graphics subsystem includes an OpenGL on a Chip™ implementation, accelerated geometry pipeline, and professional texture mapping capabilities

Hardware-accelerated transform and lighting

Single or dual Intel® Pentium® III Xeon™ processor configuration (840 chipset)

High-bandwidth 64-bit PCI slots

High-performance memory subsystem featuring dual memory controllers and Rambus dynamic random access memory (RDRAM)

Flexible, intelligently designed system

Preinstalled Windows NT® 4.0 or Red Hat® Linux 6.2 with OpenGL 1.2 graphics drivers

Comprehensive one-stop support for both hardware and software

Benefits

Provides unprecedented application and system performance: fully OpenGL® 1.2 conformant and accelerated.

Allows more realistic object behaviors and character animation, as well as significantly more complex 3D modeling. Frees up CPU for intensive computations.

The Intel Pentium III Xeon processors provide advanced cache, advanced system buffering, and multiprocessing capabilities that provide significant performance and productivity gains to the customer. The processor's large advanced transfer cache allows large amounts of data to be stored locally and accessed quickly. The Intel 840 chipset also delivers high memory bandwidth. Its split-transaction system bus allows multiple processors to effectively share the system bus, increasing bus utilization and minimizing bus contention.

Provide a flexible expansion platform to accommodate the need for more specialized throughput-intensive peripherals and processes.

RDRAM offers faster memory speeds for applications that require high performance and powerful multitasking, as well as increased memory access and system performance. The dual memory controllers provide simultaneous access and increased bandwidth [3.2GB/sec].

Easy toolless access for upgrade, customization, and expansion to meet growing needs for storage, memory, and graphics.

System is ready to power on with the operating system software professionally installed and tested for system compliance. It offers the industry's first fully hardware-accelerated OpenGL graphics for Linux.

Leverages SGI's enterprise experience in global services: 90-day software and three-year hardware support including first-year on-site warranty service for Linux and Windows NT 4.0.



Silicon Graphics 550 Visual Workstation Technical Specifications

Core Logic Chipset <ul style="list-style-type: none">Intel 840	Storage Options Internal <ul style="list-style-type: none">9.1GB Ultra160 SCSI drive [7,200 RPM]18.2GB Ultra160 SCSI drive [7,200 RPM] External <ul style="list-style-type: none">8X/40X DVD [available fall 2000]8X4X32X CD-RW	Relative Humidity Operating <ul style="list-style-type: none">40°C, 20%40°C, 90%10°C, 10% Nonoperating <ul style="list-style-type: none">10% to 90% relative humidity
Processor Support (Single or Dual) <ul style="list-style-type: none">733 MHz Pentium III Xeon 256K on-chip cache800 MHz Pentium III Xeon 256K on-chip cache	Bundled Software (Windows) <ul style="list-style-type: none">Windows NT 4.0Windows 2000 ProfessionalPC Doctor [diagnostic software]McAfee VirusScanInternet ExplorerAdobe® Acrobat Reader®	Altitude <ul style="list-style-type: none">10,000 ft operating40,000 ft nonoperating
Memory Capacity <ul style="list-style-type: none">128MB–2.0GB PC800 RDRAM	Bundled Software (Linux) <ul style="list-style-type: none">Red Hat Linux 6.2SGI ProPack for Linux™ 1.3 Visual Workstation	Vibration Operating <ul style="list-style-type: none">5–16.2 Hz 0.38 mm [peak to peak]16.2–250 Hz 0.2GX, Y, Z axis Nonoperating [packed] <ul style="list-style-type: none">5–27.1 Hz 0.6G27.1–50 Hz 0.4 mm [peak to peak]50–500 Hz 2.0GX, Y, Z axis
System Graphics <ul style="list-style-type: none">1280x1024 at 75 HzUp to 2048x1536 at 60 Hz	Physical Environment System <ul style="list-style-type: none">8.25" W x 19.25" H x 19.25" D32 lb19" monitor: 18.4" H x 18" W x 18.8" D21" monitor: 19.3" H x 19.6" W x 18.6" D	Regulatory Agency <ul style="list-style-type: none">USA: UL, FCC (CFR 47 Part 15 Subpart B), FCC Telecomm. CFR 47 Part 68Canada: CSA, CSA/NRTL, DOCJapan: VCCIEurope: CE Mark, CB, TUVAustralia: C-TickKorea: EMCMexico: NOMTaiwan: BCIQ
Graphics Features <p>Integrated transform and lighting, independent pipelined QuadEngine, 256-bit QuadPipe Rendering Engine, AGP 4X with Fast Writes, 350 MHz RAMDAC, high-speed memory interface, 256-bit 2D Rendering Engine, complete support for Microsoft® DirectX 7 and OpenGL features</p>	Voltage and Frequency <ul style="list-style-type: none">Japan: 100 VAC 6.10 ANorth America: 120 VAC 5.10 AEurope: 230 VAC 2.66 A	
Storage and I/O <ul style="list-style-type: none">Two external 5.25" drive baysOne external 5.25" 48X CD-ROM [preinstalled]Three internal 3.5" hard drive baysOne external 3.5" floppy drive [preinstalled]Integrated ATA66 controller	Heat Dissipation <ul style="list-style-type: none">1,460.7 BTUs/hour	
Communication <ul style="list-style-type: none">Two 9-pin serial ports [16550 UART]One 25-pin parallel portTwo Universal Serial Bus [USB] portsOne PS/2 mouse portOne PS/2 keyboard portOn-board audio: Analog Devices AD1881 chip	Ambient Temperature <ul style="list-style-type: none">+10 to +35°C [operating]-20 to +60°C [nonoperating]	
Display Options <ul style="list-style-type: none">19" color monitor21" color monitorSilicon Graphics® 1600SW flat panel display		
Expansion Options PCI <ul style="list-style-type: none">Four 32-bit PCI slotsTwo 64-bit PCI slotsDual channel SCSI controller Networking <ul style="list-style-type: none">On-board NIC 10/100Base-T: Intel 82559		



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