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SGI™ 1400L Server

For Linux®

Features
- Scales to four Intel Pentium III Xeon processors
- Reliability and performance provided by the SGI Linux Environment with Red Hat Linux 6.0
- Backed by SGI's Enterprise-Ready Linux Service and Support

Driving Open Systems to Higher Performance and Improved Reliability, Scalability, and Serviceability

The SGI 1400L server for Linux combines SGI's commitment to high-performance, scalable servers with the reduced cost and high reliability of the Linux operating system. By tapping into the open source community, SGI 1400L leverages a broad base of innovation and is subject to the most rigorous testing possible. SGI's worldwide, enterprise-level support makes SGI 1400L for Linux suitable for enterprise applications.

Reliability and Flexibility from an Open Systems Platform

Recognizing the low-cost advantage of open systems, SGI collaborated with Intel to deliver a high-performance solution based on industry-standard architectures—at industry-leading price points. With Intel® Pentium® III Xeon™ processors, you get incredible price/performance for Web servers, database servers, and application servers. In fact, SGI 1400L offers the largest, fastest cache: up to 2MB full-speed L2 cache, tuned by SGI for maximum performance. SGI 1400L is available in either a rackmount or a deskside configuration.

Easy Integration into Existing Environments with Strong Interoperability Tools

SGI is a multiplatform company, striving to provide customers with a choice of solutions to best meet their needs. In today's heterogeneous environments, companies need to access, manage, and share resources across a variety of operating systems and hardware platforms. SGI 1400L solutions include a number of interoperability tools, such as Samba. Samba provides leading performance for heterogeneous file sharing, allowing your SGI 1400L system to seamlessly serve Microsoft® Windows® clients as well as other UNIX® and Linux clients.

Maximum Uptime with Reliability and Availability You Can Trust

When access to your server is core to your business, reliability of the server is key. More reliability translates to direct business benefits: higher productivity and faster "time to insight." SGI 1400L includes standard features such as hot-pluggable disk drives and redundant, hot-pluggable power supplies.

Robust Management and Monitoring Options

SGI 1400L includes an emergency management port for maintaining a system event log, capturing critical sensor data such as temperature changes, and remotely resetting power via a serial line. SNMP support ensures the server can be integrated with standard enterprise management tools.

SGI 1400L Server Technical Specifications

Processor Support

• Microprocessor	Intel Pentium III Xeon
• CPU capacity	1-4 CPUs
• Clock speed	500 MHz, 550 MHz
• Primary caches	32KB (16KB data/16KB instruction) nonblocking
• Secondary cache	512KB, 1MB, 2MB; unified, nonblocking, full-speed
• System bus speed	100 MHz

System Memory

• Memory capacity	4GB EDO DRAM, ECC protected
• Memory bandwidth	800MB/sec
• Interleaving	4-way interleaved

System Features

• Operating system	SGI Linux Environment with Red Hat Linux 6.0
• CD-ROM drive	32X maximum speed ATAPI CD-ROM drive preinstalled
• Floppy drive	3.5" x 1.0" 1.44MB floppy disk drive preinstalled

Networking and Storage Capacity

• I/O bandwidth	266MB/sec
• I/O channels	Two Peer 32-bit/33 MHz PCI channels
• I/O slots	7 PCI slots (1 shared with ISA)
• Internal storage channels	1 LVDS SCSI channel 1 Narrow SCSI channel
• External storage port	1 LVDS SCSI port
• Internal storage capacity	6 Ultra2 SCSI hot swap drive bays
• Keyboard/mouse port	2 PS/2, 8240A compatible
• Serial ports	2 synchronous, RS-232C
• Parallel port	1 IEEE 1284, 25-pin bidirectional

Reliability, Availability, and Serviceability

• Hot plug feature	Hot plug internal drives; Independent power control for electronics bay and disks; Hot swap redundant power supplies
• Redundant cooling	Three fans for the electronics plus three for redundancy; Two fans for hard drive bay; Three fans for power supplies
• Management feature	Emergency management port

Support and Warranty

• Warranty	One-year hardware warranty with next-business-day response
• Software support	90 days advisory support (business hours)

Dimensions and Weights

• Tower	12.25" W x 18.06" H x 25.25" D
• Rack-mount	7U (12.25") x 19" x 25.25"
• Weight	85 lb minimum configuration

Environmental and Regulatory

• Environmental (nonoperating)	-40°C to +70°C
• Environmental (operating)	+10°C to +35°C
• Electrical and power	Three 400 W hot-swap power supplies (2+1 redundancy); Independent power cords; 115 V/60 Hz; 230 V/50 Hz
• Regulatory	Meets or exceeds the following requirements:
U.S./Canada	UL 1950, 3rd Edition (UL and cUL)
Europe/CE Mark	EN 60 950, German GS Mark to EN 60 950
International	Certified by NEMKO to meet the requirements of EN 60 950 with amendments and Nordic deviations and IEC 950 with amendments
• Electromagnetic Compatibility (EMC)	
U.S.	FCC CFR 47 Part 15 Class A
Canada	Complies with limits for radio noise emissions for Class A digital apparatus as required by Industry Canada (IC)
Europe/CE Mark	EN55022 and EN50082-2 (CE Mark—complies with EU EMC Directive 89/336/EEC)
International	CISPR 22, Class A
Japan	VDDI, Class A (based on CISPR 22 requirements)

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