

SGI® Rackable Systems Quad-Socket Servers

Enterprise & High Performance Computing Solutions

Key Benefits

Enterprise Computing

- H3106, H4002 and H4108 models:
 - Up to six expansion slots
 - 1+1 redundant AC power supply option
 - Ideal for mission critical database applications
 - Easily attached to Rackable Systems OmniStor® external storage systems

High Performance Computing

- H2002 model:
 - Exceptional server density with up to 8 sockets per 2U with two servers mounted back-to-back
 - Supports 704 processing cores per cabinet
 - Highly efficient AC or DC power supply
 - Low-profile slots enable use of high speed interconnects (e.g. InfiniBand or 10GigE)

Impressive Performance

Rackable Systems quad-socket servers feature AMD Opteron™ or Intel Xeon™ Series processors that deliver the performance needed to satisfy the most demanding applications. A high performance bus transfers data between the processors and system memory via multiple independent memory controllers.

High Efficiency

Featuring high efficiency power supplies, memory and processors, our patented half-depth server solutions draw the lowest possible wattage and reduce heat output. Leveraging innovative AC and DC power solutions, our award-winning Eco-Logical™ designs enable any legacy data center to take advantage of reduced power costs.

Improved Serviceability

Time-saving in-band and out-of-band remote management technology helps reduce administrative resources and overhead. A single, highly intuitive interface provides effortless local or remote control with total lights-out management. Our half-depth servers locate ports, connectors and cables in front for rapid service and maintenance. Whereas our standard depth, four-way servers feature a traditional rear cabling configuration.

World-Class Service and Support





Rackable Systems products are fully backed by a range of warranty and support offerings, and our Professional Services team is available to help with solutions outside traditional support packages in areas ranging from HVAC, power and network design to customer-specific operating system solutions.



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Configuration Options

Model Number	H2002	H3106	H4002	H4108
				
Chassis Profile	2U half-depth	3U standard-depth	4U half-depth	4U standard-depth
Processor	Up to four dual-core AMD Opteron 8200 Series processors; or up to four quad-core AMD Opteron	Up to four dual-core AMD Opteron 8200 Series processors; or up to four quad-core AMD Opteron 8300 Series processors	Up to four dual-core AMD Opteron 8200 Series processors; or up to four quad-core AMD Opteron 8300 Series processors	Up to four dual-core Intel Xeon 7200 Series processors; up to four quad-core Intel Xeon 7300 Series processors, or up to four quad & six-core Intel Xeon 7400 Series processors
Max. Cores	16	16	16	Up to 24
Chipset	nVIDIA nForce Pro 2200 & 2050	AMD 8132 nForce4 Pro 2200/2050	nVIDIA nForce Pro 2200 & 2050	Intel Xeon 7300
Memory	Up to 128GB (16 1GB, 2GB, 4GB or 8GB 667MHz DDR2 DIMMs)	Up to 128GB (32 1GB, 2GB or 4GB 667MHz DDR2 DIMMs)	Up to 128GB (16 1GB, 2GB, 4GB or 8GB 667MHz DDR2 DIMMs)	Up to 256GB (32 1GB, 2GB, 4GB or 8GB 667MHz FB DIMMs) - Including both standard (1.8V) and low voltage (1.55V) versions
Hard Disk Drives & Max. Capacity	Up to two 3.5" hot-swap SAS or SATA II drives (max. 2TB)	Up to six 3.5" hot-swap SAS or SATA II drives (max. 6TB)	Up to two 3.5" hot-swap SAS or SATA II drives (max. 2TB)	Up to eight 2.5" hot-swap SAS or SATA II drives (max. 1.168TB)
RAID Card Levels (Optional)	JBOD, 0, 1	JBOD, 0, 1	JBOD, 0, 1	JBOD, 0, 1, 1A, 5, 6, 10, 50, 60
Expansion Cards	One low-profile PCI-E x16 slot and one low-profile PCI-E x4 slot	Two PCI-Express x16 slots, one PCI-E x4 slot, three PCI-X 64-bit 133 slots	Two PCI-E x16 slots, two PCI-E x4 slots and one PCI slot	Four PCI-E x8 slots (two are hot-plug) and three PCI-E x4 slots
Networking, Onboard	Three GigE	Dual GigE	Three GigE	Quad GigE and one optional GigE for remote management
Video, Onboard	XGI Volari Z7 (XG20)	XGI Volari Z9 VGA	XGI Volari Z7 (XG20)	ATI ES1000, 32MB
Roamer™ Remote Management Card/LCD (Optional)	Serial or IP + keyboard, video and mouse	N/A	Serial or IP + keyboard, video and mouse	Keyboard, video and mouse via optional Intel Remote Mgmt. Module 2 (RMM2)
Intelligent Platform Management Interface (IPMI) (Optional)	IPMI 2.0	SuperDome IPMI compliant	IPMI 2.0	IPMI 2.0
Power Supply	High efficiency auto-switching -48 VDC	2+1 redundant 1000W hot-swappable auto-switching 100-240 VAC	1+1 redundant auto-switching 100-240 VAC or -48 VDC	1+1 redundant 1570W auto-switching 110-240 VAC
Chassis Mount	Rackable Systems cabinets with back-to-back mounting for double density; standard 19" rack compatible	Standard 19" rack compatible with two front post, center mount or rails	Rackable Systems cabinets with back-to-back mounting for double density; standard 19" rack compatible	Standard 19" rack compatible with tool-free J-hook rails
Dimensions (HxWxD)	3.5" x 17.6" x 15.5"	5.15" x 16.92" x 27.48"	7.0" x 17.6" x 15.5"	6.8" x 17.6" x 27.8"

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