SGI® Rackable™ Half-Depth Servers

Reliable High Density AMD Opteron™ Rackmount Solutions

Key Features

Full range of 8- to 16- core AMD® Opteron™ 6200 configurations for up to 2,944 processing cores per cabinet

Open architecture, flexible component choices support specific business needs and budget

SGI's Rackable half-depth, rackmount servers incorporate a unique, industry-leading approach to thermal management and power efficiency to enable power savings and higher levels of reliability in any data center environment. Our half-depth servers are available in a broad range of configurations and are mounted back-to-back to achieve twice the density over competitors' solutions.

With processing performance of up to 2,944 cores in just one cabinet, Rackable half-depth, high density systems are ideal for IT environments where space and power are constrained. High efficiency SGI AC and DC power technologies reduce overall power consumption and heat output in any legacy data center, while increasing uptime and reliability.

Flexibility and Scalability

SGI Rackable servers are highly configurable and designed to order to address specific data center needs and eliminate unnecessary costs. Based on an open architecture approach using AMD Opteron™ processors, Rackable servers are available in a full range of customizable configurations.

High Efficiency

SGI's unique approach to thermal management begins with each component inside our servers. Leveraging high-efficiency power supplies, memory and AMD Opteron processors, our patented solutions draw the lowest possible wattage and reduce heat output. With innovative AC and DC power alternatives at the system, cabinet and data center level, our award-winning power reduction techniques enable any data center to immediately take advantage of reduced power costs.

Space Saving Density

Our unique half-depth form factor enables back-to-back mounting to achieve high density levels of up to 92 dual-processor compute servers or networking gear. With the ability to support next generation 16-core AMD® Opteron™ 6200 processors one cabinet can deliver the compute power of—and effectively cool —2,944 processing cores.

Improved Serviceability

Time-saving IPMI 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. Ports, connectors and cables are located in front for rapid service and maintenance.

AMD Opteron Processors

SGI servers leverage the AMD® Opteron™ 6200 processors, delivering high workload performance while keeping power draws to a minimum. With leading price/performance per watt, our AMD-based solutions provide a robust and reliable solution for any data center.

World-Class Service and Support

SGI 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.

SGI® Rackable™ Half-Depth Servers

Configuration Specifications

sgi.com/servers

Server	C1001		C2005	
Model Number(s)	C1001-C1	C1001-G13	C2005-C3	C2005-G11
Chassis Profile	1U half-depth	1U half-depth	2U half-depth	2U half-depth
Max. Processors	Two AMD® Opteron™ 4000 series processors	Two AMD® Opteron™ 6200 series processors	Two AMD® Opteron™ 4000 series processors	Two AMD® Opteron™ 6200 series processors
Max. Cores	12	32	12	32
Chipset	AMD SR5690 + SP5100	AMD SR5690 + SP5100	AMD SR5690 + SP5100	AMD SR5690 + SP5100
Max. Memory	192GB	256GB	128GB	256GB
Memory slots	12	16	8	16
Memory Type	1333/1066/800 MHz DDR3 ECC reg.	1600/1333/1066/800 MHz DDR3 ECC reg.	1333/1066/800 MHz DDR3 ECC reg.	1600/1333/1066/800 MHz DDR3 ECC reg.
Max. Hard Disk Drives & Max. Capacity	One 3.5" (max. 3TB) or two 2.5" (max. 2TB) 6 Gb/s SAS or SATA II hot-swap drives	One 3.5" (max. 3TB) or two 2.5" (max. 2TB) SAS, SATA II or SSD hot-swap drives	Five 3.5" (max. 15TB), ten 2.5" (max. 10TB) hot-swap SAS, SATA II or SSD drives or a combination of both	Five 3.5" (max. 15TB), ten 2.5" (max. 10TB) hot-swap SAS, SATA II or SSD drives or a combination of both
SAS RAID (Onboard, Optional)	LSI SAS2008: JBOD, 0, 1	LSI SAS2008: JBOD, 0, 1	LSI SAS2008: JBOD, 0, 1, 1E, 10	ASUS PIKE 1078 8-port SAS HW RAID card
SAS RAID (RAID card, Optional)	JBOD, 0, 1	JBOD, 0, 1	JBOD, 0, 1, 5, 6, 10, 50, 60	JBOD, 0, 1, 5, 6, 10, 50, 60
Expansion Slots, Riser-based	One PCI-E 2.0 x16	One PCI-E 2.0 x16	One PCI-E 2.0 x16	One PCI-E 2.0 x16
Expansion Slots, Low Profile (Optional)	N/A	N/A	Two PCIE-E 2.0 x 16, one PCI-E 2.0 x8, one PCI-E 2.0 x4 and one PCI-33	One PCI-E 2.0 x16 or two PCI-E 2.0 x8 (auto-selected), one PCI-E 2.0 x8, and one PCI-E 2.0 x4
Networking (Onboard)	Four GigE (2x Intel 82576EB)	Three GigE (Intel 82576EB + Intel 82574L)	Four GigE (Intel 82576EB + 2x Intel 82574L)	Two Intel 82574L
IPMI Remote Management (Onboard)	Integrated IPMI 2.0 + Keyboard, Video and Mouse (KVM)	Integrated IPMI 2.0 + Keyboard, Video and Mouse (KVM)	Integrated IPMI 2.0 + Keyboard, Video and Mouse (KVM)	Integrated IPMI 2.0 + Keyboard, Video and Mouse (KVM)
Power Supply	Auto-switching 100-240 VAC (50-60 Hz) or -48 VDC	Auto-switching 100-240 VAC (50-60 Hz) or -48 VDC	Auto-switching 100-240 VAC (50-60Hz), redundant 1+1, or -48VDC	Auto-switching 100-240 VAC (50-60Hz), redundant 1+1, or -48VDC
Chassis Mount	Rackable cabinets with back-to-back mounting for double density; standard 19" rack compatible	Rackable cabinets with back-to-back mounting for double density; standard 19" rack compatible	Rackable cabinets with back-to-back mounting for double density; standard 19" rack compatible	Rackable cabinets with back-to-back mounting for double density; standard 19" rack compatible
Dimensions (HxWxD)	1.75" x 17.6" x 15.5"	1.75" x 17.6" x 15.5"	3.5" x 17.6" x 15.5"	3.5" x 17.6" x 15.5"

Global Sales and Support: sgi.com/global