

# Rackable Systems Half-Depth Servers: 1000 Series

## Reliable High Density Intel® Xeon® Rack-Mount Solutions



### Key Benefits

- Patented half-depth, back-to-back mounted chassis achieves 2x density per cabinet
- Full range of dual- and quad-core configurations for up to 704 processing cores
- High drive count configurations ideal for bulk storage deployments—up to 336TB per cabinet
- Energy-efficient AC and DC power technologies reduce heat output and power costs
- Front-facing ports and clean cabling reduce service time up to 75%
- Open architecture, flexible component choices support specific business needs and budget
- Outstanding combination of price, capacity, and performance
- Integrated Roamer™ lights-out remote management
- Ships fully cabled and racked for quick, easy, plug-and-play deployment

Rackable Systems' half-depth, rack-mount 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 from 1U to 3U high, and are mounted back-to-back to achieve twice the density over competitors' solutions.

With processing performance of up to 704 cores in just one cabinet and storage capacity of up to 336TB per cabinet, Rackable Systems' half-depth, high density systems are ideal for IT environments where space and power are constrained. Our high-efficiency AC and DC power technologies reduce overall power consumption and heat output in any legacy data center, while increasing uptime and reliability.

### Flexible Configurations

Rackable Systems servers are highly configurable and built-to-order to address specific data center needs and eliminate unnecessary costs. Based on an open architecture approach using Intel Xeon processors, Rackable Systems rack-mount servers are available in a full range of customizable configurations.

### Leading Efficiency

Rackable Systems' unique approach to thermal management begins with each component inside our servers. Leveraging high-efficiency power supplies, memory, and Intel Xeon 5100, 5200, 5300 and 5400 series 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 legacy data center to immediately take advantage of reduced power costs.

### High Density

Our unique half-depth form factor enables back-to-back mounting to achieve high density levels of up to 88 single- or dual-processor compute servers or networking gear. With the ability to support today's fastest 65nm and 45nm quad-core Intel Xeon processors, one cabinet can generate the compute power—and effectively cool—704 processing cores. Alternatively, for bulk storage applications a 44U cabinet populated with our 12-drive S3012 storage servers mounted back-to-back delivers up to 336TB of bulk storage.

### Simplified Serviceability

Time-saving Roamer™ 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.

### Intel Xeon Processors

Rackable Systems servers leverage the newest dual- and quad-core processors from Intel, delivering low peak power draws combined with high workload performance. With leading price performance per watt, our Intel-based solutions provide a robust and reliable solution for any data center.

### World-Class Service and Support

Rackable Systems support professionals are committed to ensuring our customers' complete satisfaction. Our products are fully backed by a range of warranty and support offerings including full telephone, online and onsite support. The Rackable Systems 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.





[www.rackable.com](http://www.rackable.com)

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### Configuration Options

		
Model Number	C1001	C1002
Chassis Profile	1U half-depth	1U half-depth
Processors	Up to two dual-core Intel Xeon 5100 or 5200 Series processors; or up to two quad-core Intel Xeon 5300 or 5400 Series processors	Up to two dual-core Intel Xeon 5100 or 5200 Series processors; or up to two quad-core Intel Xeon 5300 or 5400 Series processors
Max. Cores	Eight	Eight
Chipset	Intel 5000p or 5100 or 5400	Intel 5100
Front Side Bus Speed	Up to 1600MHz	1333MHz
Memory	Up to 128GB (six, eight or sixteen 1GB, 2GB, 4GB or 8GB DIMMs; up to 800 MHz)	Up to 48GB (six DIMMs)
Hard Disk Drives & Max. Capacity	SAS or SATA II hot-swap drives one 3.5" (max. 1TB) or two 2.5" (max. 600GB)	SAS or SATA II hot-swap drives two 3.5" (max. 2TB) or four 2.5" (max. 1.2TB)
RAID Card Levels (Optional)	JBOD, 0, 1	JBOD, 0, 1
Expansion Cards	One PCI Express slot on riser	N/A
Networking, Onboard	Dual GigE	Dual GigE
Roamer™ Remote Management Card/LCD (Optional)	Serial or IP + Keyboard, Video and Mouse (KVM)	N/A (Integrated IPMI 2.0 + KVM)
IPMI Remote System Management (Optional)	IPMI 2.0	IPMI 2.0
Power Supply	Auto-switching 100-240 VAC (50-60 Hz) or -48 VDC	Auto-switching 100-240 VAC (50-60 Hz) or -48 VDC
Chassis Mount	Rackable Systems cabinets with back-to-back mounting for double density; standard 19" rack compatible	Rackable Systems 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 16.1"

Note: Contact Rackable Systems to discuss the full range of build-to-order configurations available

\*Dedicated to RAID controller

