

Rackable Systems Standard-Depth Servers

Reliable 19" Rack-Mount Solutions



Key Benefits

- Optimized for hot aisle/cold aisle environments and industry-standard 19" racks
- Full range of dual- and quad-core configurations, up to 352 processing cores per rack
- High drive count configurations are ideal for bulk storage deployments—up to 252TB per cabinet
- Energy-efficient AC and DC power technologies reduce heat output and power costs
- Open architecture, flexible component choices support specific business needs and budget
- Integrated Roamer™ lights-out remote management
- Ships fully cabled and racked for quick, easy, plug-and-play deployment

Rackable Systems' standard-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 standard-depth servers are available in a broad range of configurations from 1U to 3U high, and are mounted in Rackable Systems' extensive line of cabinets and 3rd party standard 19" racks.

With processing performance of up to 352 cores in just one cabinet and storage capacity of up to 252TB per cabinet, Rackable Systems' standard-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.

Flexibility and Scalability

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 industry standard AMD Opteron® and Intel® Xeon® processors, Rackable Systems rack-mount servers are available in a full range of customizable configurations.

High Efficiency

Rackable Systems' unique approach to thermal management begins with each component inside our servers. Leveraging high-efficiency power supplies, memory, and AMD Opteron and Intel Xeon 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.

Standard Rack Compatibility

Our unique standard-depth form factor enables industry standard mounting to achieve density levels of up to 44 single- or dual-processor compute servers in a Rackable Systems cabinet, or the maximum possible density in a 3rd party rack. With the ability to support today's fastest quad-core processors, one Rackable Systems cabinet can generate the compute power—and effectively cool—352 processing cores. Alternatively, for bulk storage applications, a 44U cabinet populated with our 18-drive S3118 storage servers delivers up to 252TB of bulk storage.

Improved 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.

High Performance Processors

Rackable Systems servers leverage the newest AMD Opteron and Intel Xeon quad-core processors, delivering low peak power draws combined with high workload performance. With leading price performance per watt, our standard-depth servers are available with DDR2 and fully buffered memory for a robust and reliable solution.

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

				
Server Series	1100	2100		3100
Model Numbers	C1104	C2104	S2108	S3118
Chassis Profiles	1U standard-depth	2U standard-depth	2U standard-depth	3U standard-depth
Processors	Up to two dual- or quad-core AMD Opteron or Intel Xeon processors	Up to two dual- or quad-core AMD Opteron or Intel Xeon processors	Up to two dual- or quad-core AMD Opteron or Intel Xeon processors	Up to two dual- or quad-core AMD Opteron or Intel Xeon processors
Max. Cores	Eight	Eight	Eight	Eight
Chipset	Opteron: nVidia nForce 2200 Pro Xeon: Intel 5000p or 5100	Opteron: nVidia nForce 2200 Pro or nVidia nForce Pro 3600 MCP Xeon: Intel 5000p or 5100	Opteron: nVidia nForce 2200 Pro or nVidia nForce Pro 3600 MCP Xeon: Intel 5000p or 5100	Opteron: nVidia nForce Pro 3600 MCP Xeon: Intel 5000p or 5100 or 5400
Front Side Bus Speed (Intel Only)	Up to 1333MHz	Up to 1333MHz	Up to 1333MHz	Up to 1600MHz
Max. Memory	Up to 128GB (six, eight or sixteen 1GB, 2GB, 4GB or 8GB DIMMs; up to 667 MHz)	Up to 128GB (six, eight or sixteen 1GB, 2GB, 4GB or 8GB DIMMs; up to 667 MHz)	Up to 128GB (six, eight or sixteen 1GB, 2GB, 4GB or 8GB DIMMs; up to 667 MHz)	Up to 128GB (six, eight or sixteen 1GB, 2GB, 4GB or 8GB DIMMs; up to 800 MHz)
Hard Disk Drives & Max. Capacity	Up to four 3.5" hot-swap SAS or SATA II drives (max. 4TB)	Up to four 3.5" hot-swap SAS or SATA II drives (max. 4TB)	Up to eight 3.5" hot-swap SAS or SATA II drives (max. 8TB)	Front: 16 3.5" hot-swap SAS or SATA II drives (max. 16TB) Back: Two 3.5" hot-swap SAS or SATA II drives (max. 2TB)
RAID Card Levels (Optional)	JBOD, 0, 1, 5, 6, 10	JBOD, 0, 1, 5, 6, 10	JBOD, 0, 1, 5, 6, 10, 50, 60	JBOD, 0, 1, 5, 6, 10, 50, 60
Expansion Cards	One PCI Express slot on riser	Up to five low-profile slots or up to two slots on risers	Up to five low-profile slots or up to two slots on risers	Up to six slots
Networking, Onboard	Dual GigE	Dual GigE	Dual GigE	Dual GigE
Roamer™ Remote Management Card/LCD (Optional)	Serial or IP + Keyboard, Video and Mouse (KVM)	Serial or IP + Keyboard, Video and Mouse (KVM)	Serial or IP + Keyboard, Video and Mouse (KVM)	Serial or IP + Keyboard, Video and Mouse (KVM)
IPMI Remote Management (Optional)	IPMI 2.0	IPMI 2.0	IPMI 2.0	IPMI 2.0
Power Supply	450W auto-switching 100-240 VAC or -48 VDC	550W or 750W 1+1 redundant auto-switching VAC, or 450W auto-switching 100-240 VAC or -48 VDC	550W or 750W 1+1 redundant auto-switching VAC, or 450W auto-switching 100-240 VAC or -48 VDC	550W or 750W 1+1 redundant auto-switching VAC, or 450W auto-switching 100-240 VAC or -48 VDC
Chassis Mount	Rail mount	Rail mount	Rail mount	Standard 19" rack compatible with two front posts, center mount, or rails
Dimensions (HxWxD)	1.75" x 17.3" x 28.5"	3.47" x 17.3" x 28.5"	3.47" x 17.3" x 28.5"	5.25"x17.6"x27.3"

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