

DELL POWEREDGE 1955 SERVER



For space-constrained environments where high processing capability is needed, the Dell™ PowerEdge™ 1955 modular blade server helps make the most of floor space without sacrificing high performance. It is ideal for edge of network, infrastructure and other applications that demand performance and I/O throughput.

Dell's Innovative 9th Generation PowerEdge Servers

Through ground-breaking hardware design and continued focus on fewer system updates, Dell's 9th generation PowerEdge servers help reduce the complexity involved in managing data, whether you are a large enterprise or a small business. The servers are designed to a Dell-developed Behavioral Specification that defines consistent hardware layout and user interaction across all server models in this and future PowerEdge generations. Featuring the latest Intel® Xeon® processors, the 9th generation PowerEdge servers offer the power and performance you expect from Dell.

The Dell PowerEdge 1955 Server Saves Valuable Data Center Resources

By sharing one chassis infrastructure across multiple servers, the Dell PowerEdge 1955 blade server offers exceptional rack density. As many as 10 blade servers fit in one 7U chassis and share components like power, cooling, server management and embedded I/O Pass-Through devices. The result can be reduced data center floor space usage, a 70 percent reduction in necessary cables and simpler installation and maintenance.

High Performance and Availability to Maximize Uptime

The Dell PowerEdge 1955 server delivers incredible processing power in an efficient, small form factor. Each blade features dual Intel® Xeon® dual-core processors that provide next generation performance. It also includes Fully Buffered DIMMs for advanced memory and performance benefits, low latency response and high throughput. Embedded I/O connectivity options include redundant Gigabit Ethernet Layer 2 switches and Pass-Throughs, and Fibre Channel switches and Pass-Throughs, as well as Infiniband™ Pass-Throughs.

High availability is another key benefit of the Dell PowerEdge 1955 server. All of its critical support modules including power, cooling and management features are hot-pluggable and redundant. Plus, each blade supports Single Device Data Correction (SDDC) memory technology that enables the system to withstand multi-bit errors.

Simplified Management to Reduce Complexity

Simplified management is critical in highly-populated data centers. The PowerEdge 1955 server is designed to help reduce deployment, management and maintenance complexity. Each PowerEdge system is shipped with Dell OpenManage™ IT Administrator and Server Assistant software that guides you through set-up and installation. The PowerEdge blade chassis also includes Dell Remote Access Card (DRAC)/MC management modules and embedded KVMs that enable management from a remote location. Furthermore, the Dell PowerEdge 1955 blade server fits into the current Dell modular server chassis to protect your technology investment and help reduce Total Cost of Ownership.



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DELL IT INFRASTRUCTURE SERVICES

Dell brings pure execution to IT Services. The planning, implementation and maintenance of your IT infrastructure deserves nothing less. Variability in execution can compromise user productivity, IT resources and ultimately, your reputation. By leveraging our heritage of process driven excellence, Dell Services can deliver a smarter way.

We don't claim to do everything. We focus on IT infrastructure services. And we take a customer led approach, grounded in the philosophy that you know your business better than anyone. That's why Dell does not try to take key business decisions out of your hands, or lock you into more than you need. Instead, we apply our world-class process management and "no excuses" culture to deliver what customers today most need – flexibility and repeatable quality. That's pure execution. That's Pure Dell.

Assessment, Design and Implementation Services

IT departments are continually challenged to evaluate and implement new technologies. Dell's assessment, design and implementation services can restructure your IT environment to enhance performance, scalability and efficiency while helping to maximize your return on investment and minimize disruption to your business.

Deployment Services

System deployment is a necessary evil that plagues nearly every organization. You must deploy new systems to help improve performance and meet user demand. With Dell's deployment services, we help simplify and speed up the deployment and utilization of new systems to maximize uptime throughout your IT environment.

Asset Recovery and Recycling Services

Proper disposal, reselling and donation of computer equipment is a time-consuming task that typically falls to the bottom of many IT to-do lists. Dell simplifies the end of life processes for IT equipment in a way that can maximize value for customers.

Training Services

Arm your employees with the knowledge and skills they need to be as productive as possible. Dell offers comprehensive training services which include hardware and software training, as well as PC skills and professional development classes. With Dell training you can help improve system reliability, maximize productivity and reduce end user requests and downtime.

Enterprise Support Services

With Dell, you can get maximum performance and availability of your Dell server and storage systems. Our Enterprise Support services offer proactive maintenance to help prevent problems as well as rapid response and resolution of problems when they do occur. We have built a robust global infrastructure that offers multiple levels of enterprise support for systems throughout your infrastructure.

To help you get the most from your Dell systems, visit www.dell.com/services.

Services vary by region.

FEATURES DELL™ POWEREDGE™ 1955 SERVER

CHASSIS

Form factor	7U enclosure holds up to ten blade servers
Dimensions (H x W x D)	30.67cm (12.07") H x 44.60cm (17.56") W x 73.50cm (28.94") D
Power Supplies	Hot pluggable, non-redundant or optional 2+2 redundant power
Input devices	Integrated Avocent® Analog or Digital Access keyboard, video and mouse (KVM) switch with seamless tying into an external Avocent or Dell switch environment
Enclosure I/O modules	PowerConnect™ 5316M Ethernet Switch, Ethernet Pass-Through, Fibre Channel Pass-Through, Brocade® SilkWorm® 4016 Fibre Channel Switch, McDATA® 4416 Fibre Channel Switch or Topspin® InfiniBand Pass-Through

BLADES

Processors	Two Dual-Core Intel® Xeon® 5000 sequence processors with up to 3.0GHz clock frequency or two Dual-Core Intel® Xeon® 5100 sequence processors with up to 3.0GHz clock frequency
Front side bus	5000: 667MHz or 1066MHz 5100: 1066MHz or 1333MHz
Cache	5000: 2x2MB L2 per processor 5100: 4MB L2 per processor
Chipset	Intel 5000P
Memory	256MB/512MB/1GB/2GB/4GB Fully Buffered Dimms (FBD) in matched pairs; 533MHz or 667MHz; 8 sockets for support up to 32GB
Dual port I/O cards	Optional Dell Integrated QLogic™ QME2462 and Emulex LPe1105-M Fibre Channel daughtercard, Intel Gigabit Ethernet daughtercard or Topspin 4X Infiniband HCA daughtercard
Integrated storage controller	SAS 5/ir (H/W based) with RAID 1 support
Drive bays	Two 2.5" SAS/SATA drives
Maximum internal storage	Up to 146GB ²
Hard drives²	SAS (10k rpm): 36GB or 73GB; SATA (5.4k rpm): 40GB
Internal storage	2 x 2.5" hot-plug SAS (10K rpm) or SATA (5400 rpm) drives
External storage	Dell PowerVault™ Storage; Dell/EMC products
Tape backup options	SAN-based or LAN-based backup
Network interface card	Dual port embedded Broadcom® NetXtreme II™ 5708 Gigabit ¹ Ethernet NIC
Power supply	2+2, 2100W, hot-pluggable redundant power
Availability	Optional hot-plug redundant power; redundant cooling; ECC memory; Single Device Data Correction (SDDC); dual port embedded NIC with failover and load balancing support; Spare Bank
Video	Embedded ATI ES1000 with 16MB memory
Remote management	Baseboard Management Controller with IMPI 2.0 support; DRAC/MC chassis management module; virtual media; dynamic DNS
Systems management	Dell OpenManage™
Rack support	24U or 42U Dell rack; non-sliding Versa & Rapid rails
Operating systems	Microsoft® Windows® Server 2003, Standard, Enterprise, Web Edition; Red Hat® Linux® Enterprise v4 (ES, AS and WS); SUSE Linux Enterprise Server 10

¹ This term does not connote an actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
² For hard drives, GB means 1 billion bytes, actual capacity varies with preloaded material and operating environment and will be less.

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