

Dell PowerEdge 1655MC Blade Server



Packed with performance features, the Dell™ PowerEdge™ 1655MC blade server delivers flexible, robust computing capability for space-conscious environments.

Impressive Density, Uncompromising Performance

A key product in Dell's first phase of modular computing offerings, the Dell PowerEdge 1655MC blade server provides demanding, yet space-conscious environments with exceptional performance in a highly dense form factor. The enclosure houses as many as six blades in a 3U form factor (2X the density of today's 1U server), each PowerEdge 1655MC blade is equipped with up to two 1.4GHz Intel® Pentium® III processors with a 133MHz front side bus and 512KB full speed cache.

Each blade comes equipped with up to two high performance SCSI hard disk drives with an integrated hardware based Ultra 160 SCSI RAID controller. The PowerEdge 1655MC blade also features two DIMM slots supporting up to 2GB of memory capacity. For maximum I/O throughput, it includes two embedded Gigabit Ethernet network interface controllers (NICs). The NICs are connected internally to redundant, fully manageable Layer 2 Ethernet switches, providing significant reduction in cables without sacrificing performance or availability.

Designed to Maximize Data Center Efficiency

The PowerEdge 1655MC blade server is designed to bring a new level of efficiency to data center infrastructures, delivering exceptional customer value. Not only is its dense format designed to help save on spatial costs, you can also benefit from lower hardware expenses because the enclosure's redundant components are shared among multiple blades. The plug and play nature of the blade server is designed to keep your administrative costs low by keeping installation and service simple. Furthermore, the enclosure comes standard with several features, such as hot-plug, redundant power and cooling, an Ethernet switch, a keyboard, video and mouse (KVM) switch and a remote management card, many of which would have to be purchased as options on or with integrated servers.

Simplified Deployment and Expandability

The PowerEdge 1655MC blade server's enclosure fits easily into your current data center environment. It easily integrates into standard 19" racks and your current power infrastructure without modification, thus it can coexist seamlessly in the rack with existing servers. The enclosure arrives from the factory fully integrated and tested with components, ready to be installed in the rack. Plus, by leveraging redundant power supplies and providing consolidated management, networking, and KVM infrastructure over multiple blades, the PowerEdge 1655MC blade server needs only 20% of the cables required by an equal number of traditional servers.

The PowerEdge 1655MC blade server offers flexible software deployment and administration, making it simple to get your servers up and running quickly. Each blade can be attached to an external USB CD-ROM and/or floppy drive and the enclosure provides a KVM switch so you have full local control for local OS installation, configuration, and troubleshooting. The PowerEdge 1655MC blade server is also optimized for headless software deployment and administration using Dell's upcoming remote software deployment tool to easily bring your blades online over the network. This toolset gives you remote capabilities for initial deployment, re-tasking and recovery. Beyond simply deploying an OS image, it also allows you to remotely configure the RAID array and configure the OS settings.

Expandability is equally hassle-free. When you need more server capacity, slide an additional blade into your chassis and use the deployment tools to integrate the new server into your network. Instant capacity expansion is now a reality.

Easy Manageability

The PowerEdge 1655MC features several manageability tools which provide robust remote monitoring and administration capabilities. With OpenManage IT Assistant and Server Administrator, you can remotely monitor work from the chassis, blades and all components from a single consolidated point. Additionally, you can handle reporting and inventory functions with an easy-to-use interface.

The PowerEdge 1655MC blade server delivers uncompromising performance and flexibility, outstanding density, high availability, and exceptional value for your demanding computing environment.



PowerEdge 1655MC

Exceptional performance. Easy as **DELL™**

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Dell Professional Services enables Dell customers to optimize ROI by leveraging complex technology through the design, development and deployment of innovative, robust and scalable business-critical solutions. With each engagement, we utilize our proven methodology and project management expertise to understand your business objectives, design plans that are flexible to adapt to your current environment and then deliver the desired results.

Deployment Services

We bring you deployment assistance that delivers true value from beginning to end. Dell can tailor systems to our customers' specifications by customizing the hardware and software configuration during the initial system-build to reduce redundancy and time. We can manage the delivery, installation and disposal of your assets with the same eye for efficiency.

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Our approach to Training and Certification allows you to outsmart your competitors – not outspend them – with industry standard learning across Dell hardware and industry standard software. Dell can assist you wherever you need us, whether on-site, on-line or in a classroom setting, to help your organization take full advantage of information technology.

Enterprise Support Services

Technology is a significant investment, and it pays to have a partner who can help you minimize costly downtime. Through our Enterprise Support Services offerings, Dell provides tiered support service packages with the flexibility to customize the offering to meet your specific needs across a wide range of computing environments. With proactive and reactive support options which include hardware and software support with varied response levels, account management, and remote resolution, Dell provides support solutions that meet your needs, cost effectively.

FEATURES DESCRIPTION

ENCLOSURES

Form factor	The 3U enclosure holds up to six server blades
Dimensions (H x W x D)	5.25" x 19" x 28.9" (13.33cm x 48.26cm x 73.41cm)
Power supplies	Standard hot-plug, redundant (1 + 1) 1040 W
Input devices	Integrated keyboard, video and mouse (KVM) switch
Integrated Ethernet switches	One (standard) or two (second is optional) managed Layer 2 Ethernet switches

BLADES

Processor(s)	Up to two Intel® Pentium® III at 1.4GHz
Front side bus	133MHz
Cache	512KB full speed
Chipset	ServerWorks® ServerSet LE3.0
Memory	128MB - 2GB 133MHz ECC SDRAM
I/O channels	Two total: 64-bit/66MHz and 32-bit/33MHz
Drive controller	Embedded single channel Ultra 160 SCSI
RAID controller	PERC4/IM
Drive bays	Support for up to two SCSI drives
Maximum internal storage	292GB (2 x 146GB)
Hard drives	36GB, 73GB and 146GB (10,000 rpm) and 18GB, 36GB and 73 GB (15,000 rpm) Ultra 160 SCSI
External storage	PowerVault™ or Dell/EMC® NAS
Input devices	Each server blade has a USB port which supports an external USB CD or floppy drive. The CD can be used with Dell Server Assistant (DSA) to load an OS on a bare metal system and/or for application installation once the operating system is loaded. The floppy can be used for a network operating system install, offline diagnostics, or local BIOS/driver/agent updates.
Tape backup	No local or direct connect tape support. Backup via network to LAN-based backup server or NAS.
Network interface card	Dual integrated Broadcom® NetXtreme® GB NICs with load balancing and failover support
Availability	ECC memory Dual integrated NICs with failover and load balancing support Optional redundant Ethernet switches Standard hot-plug redundant power supplies Embedded Ultra 160 RAID (PERC4/IM) Standard hot-plug redundant cooling
Graphics	Integrated VGA-compatible, ATI-Rage XL controller
Optional software	Microsoft® Windows® 2000 Server, Microsoft Windows 2000 Advanced Server, Red Hat® Linux 7.3, 8.0, 9.0; Red Hat Enterprise Linux 3; Microsoft Windows Server 2003 Standard Edition, Enterprise Edition and Web Edition

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¹ This term indicates compliance with IEEE9 standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

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