



POWEREDGE M630

An ultra-efficient blade server with up to 44 cores of Intel processing power and 24 DIMMs of DDR4 memory in a dense, easy-to-manage platform ideal for data center workloads.

Easily scale your workload capacity

Deliver the compute power your demanding applications require with the PowerEdge M630 blade server. Designed for use with the PowerEdge M1000e blade enclosure and PowerEdge VRTX converged infrastructure, the M630 offers exceptional scalability in environments ranging from IT as a service (XaaS) providers and private clouds to remote and branch offices.

The Intel® Xeon® processor E5-2600 v4 product family offers the processing cycles and threads to help increase virtualization performance, allowing the M630 to deliver more, larger and higher-performing virtual machines with help from more cores and up to 15 percent greater memory bandwidth.

Drive peak performance

Unleash the workload capabilities of your converged infrastructure with the ample memory capacity of the M630's 24 DDR4 DIMM slots and up to four 1.8" SSDs — twice the number of flash drives per server than previous generations. This extreme memory density and high-bandwidth memory makes the M630 ideal for workloads like high-performance computing (HPC).

Tailor your blades to your business

The M630 provides flexibility to optimize in-server storage and I/O performance, allowing you to tailor your servers to your workloads today and tomorrow. With drive options from 2 x 2.5" HDDs or Express Flash PCIe SSDs to up to 4 x 1.8" SSDs, it's easy to configure in-server storage to meet your needs. For network flexibility, the M630 features Dell Select Network Adapters. These modular integrated NICs offer you a choice of fabric, speed and vendor, allowing you to precisely address workload bandwidth requirements and enable rapid access to the storage resources your server or cloud requires — NAS or SAN.

Innovative management with intelligent automation

The Dell OpenManage systems management portfolio simplifies and automates server lifecycle management — making IT operations more efficient and Dell servers the most productive, reliable and cost effective. The capabilities of Dell's agent-free integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller make server deployment, configuration and updates more automated and efficient than ever. Dell M630 servers also benefit from the Chassis Management Controller (CMC), an embedded component that provides management of the converged infrastructure in every chassis and monitors multiple chassis at once via a web browser.

Both iDRAC and CMC technologies are leveraged by the rest of the OpenManage portfolio. OpenManage Essentials provides enterprise-level monitoring and control of Dell and third-party data center hardware, and works with OpenManage Mobile to provide similar information on smart phones. OpenManage Essentials also delivers server configuration management capabilities that automate bare-metal server and OS deployments, replication of configurations and ensures ongoing compliance with set system configurations.

PowerEdge M630

- Up to 44 cores with the latest Intel Xeon processor E5-2600 v4 product family
- 24 DIMMs of DDR4 memory
- Up to four 1.8" SSDs with double the storage bandwidth

Feature	Technical specification	
Form factor	Half-height blade with up to 16 nodes in a 10U M1000e chassis; up to four nodes in a VRTX chassis	
Dimensions	H: 197.9 mm (7.79 in), W: 50.35 mm (1.98 in), D: 564.9 mm (22.2 in)	
Processor	Intel® Xeon® processor E5-2600 v4 product family	
Processor sockets	2	
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 14, 16, 18, 20, 22	
Chipset	Intel C610 series chipset	
Memory¹	Up to 1.5TB (24 DIMM slots): 4GB/8GB/16GB/32GB/64GB DDR4 up to 2400MT/s	
I/O mezzanine cards	2 x PCIe 3.0 (x8) mezzanine cards	
RAID controllers	Internal controllers: PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P	
Primary storage	Hot-plug hard drive options: PowerEdge Express Flash NVMe PCIe SSD, SATA HDD/SSD or SAS HDD/SSD 4 x 1.8" SSD. 2 x 2.5" PCIe SSDs	
Optional adapters	Broadcom 5719 Quad port 1GBE Mezz Card for M-Series Blades Broadcom 5720 1GB Quad Port KR Blade Network Daughter Card Emulex LPE1205-M 8GBps Dual Port Fibre Channel I/O Mezz Card for M-Series Blades Emulex LPM16002 16GBps Dual Port Fibre Channel I/O Mezz Card Emulex OCm14102-U5-D, Dual Port 10GBE, KR Mezzanine, Converged Network Adapter for M-Series Blades Emulex OCm14104-U3-D, Dual Port 10GBE, KR Mezz Converged Network Adapter for M-Series Blades Emulex OneConnect OCm14102B-N5-D 2-port 10GBE Mezz NIC Emulex OneConnect OCm14102B-N6-D 2-port 10GBE bNDC NIC Emulex OneConnect OCm14102B-U4-D 2-port 10GBE bNDC CNA Emulex OneConnect OCm14102B-U5-D 2-port 10GBE Mezz CNA Emulex OneConnect OCm14102-N5-D 2-port 10GBE Mezzanine NIC Emulex OneConnect OCm14102-N6-D 2-port 10GBE KR NIC, Blade Network Daughter Card	Emulex OneConnect OCm14102-U4-D, Dual Port 10GBE, KR CNA Network Daughter Card Intel i350 Quad Port 1 Gigabit, KR Blade Network Daughter Card Intel i350 Quad Port 1GB Serdes Mezz Card for M-Series Blades Intel x520-k Dual Port 10GB KR Blade Network Daughter Card Intel X710 Dual Port, 10GB KR Blade Network Daughter Card Intel X710 Quad Port, 10GB KR Blade Network Daughter Card Intel® X520-x/k 10GB Dual Port I/O Mezz Card for M-Series Blades Mellanox Connect X3 FDR IB / 56GB Mezz Card for M-Series Blades Mellanox Connect X3 FDR10 IB Mezz Card for M-Series Blades Mellanox ConnectX-3 Dual Port 10GB KR Mezz Card for M-Series Blades Mellanox ConnectX-3 Pro Dual Port 10 GBE KR Mezzanine Card QLogic 57810-k Dual port 10GB KR CNA Blade Network Daughter Card QLogic 57810-k Dual port 10GB KR CNA Mezz Card for M-Series Blades QLogic 57840S 10GB Quad Port KR CNA Blade Network Daughter Card QLogic QME2572 8GBps Fibre Channel I/O Mezz Card for M-Series Blades QLogic QME2662 16Gbps Fibre Channel I/O Mezz Card
Power supplies	Chassis level – PowerEdge M1000e 2700W Platinum and 3000W Titanium PSU options	
Video card	Video type Matrox® G200 (integrated with iDRAC8) Video memory: 16MB shared with iDRAC8 application memory	
Systems management	Systems management: IPMI 2.0 compliant; Dell OpenManage Essentials; Dell OpenManage Mobile; Dell OpenManage Power Center Remote management: iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)	Dell OpenManage Integrations: <ul style="list-style-type: none"> • Dell OpenManage Integration Suite for Microsoft® System Center • Dell OpenManage Integration for VMware® vCenter™ Dell OpenManage Connections: <ul style="list-style-type: none"> • HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management • Dell OpenManage Plug-in for Oracle® Database Manager
Operating systems	Microsoft® Windows Server® 2016 Microsoft Windows Server 2012 R2 SUSE® Linux Enterprise Server	Red Hat® Enterprise Linux VMware® ESXi™

¹ GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

Recommended services

ProSupport Plus with SupportAssist provides proactive and predictive support for critical systems. ProSupport provides comprehensive hardware and software support. Get more from your technology starting on day one with ProDeploy Enterprise Suite deployment offers. For more information, visit Dell.com/itlifecycleservices.

End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell EMC for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell EMC Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.*

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