POWEREDGE VRTX

Integrates servers, storage, networking and management into a single office-optimized chassis to deliver greater simplicity, efficiency and versatility.

The Dell PowerEdge VRTX brings order to chaos, redefines IT operations and allows you to deploy performance anywhere. PowerEdge VRTX is a powerful, scalable, easy-to-manage solutions platform, optimized specifically for office environments. Clear up the complexity of disparate hardware, multiple management tools and hardware sprawl with an optimized platform that integrates up to four PowerEdge M-series server nodes, storage, networking and management into a compact 5U chassis.

With extensive scalability available inside the chassis, additional servers and hard drives can be inserted without utilizing more floor space or rack space, or additional cables.

VRTX's feature-rich, two-socket, half-height PowerEdge M630 server nodes and four-socket, full-height M830 deliver exceptional flexibility and scalable performance. With a choice of up to twelve 3.5" or twenty-five 2.5" hot-plug hard drives delivering up to 120TB capacity, VRTX is equipped with massive internal shared storage, keeping you ahead of the pace of data growth.

Optional FIPS-certified self-encrypting drives (SED) add another layer of protection, helping you avoid data loss and physical security breaches.

In addition, chassis storage can be expanded even further by connecting up to four MD1200 (12 x 3.5" drives) or MD1220 (24 x 2.5" drives) disk arrays in redundant or capacity-based configurations.

Integrate networking through the 10GbE or 1GbE internal switch module or an optional Ethernet pass-through module. Take advantage of flexible, expandable I/O with eight PCI Express® (PCIe) slots — three full-height/full-length and five low-profile/half-length. Increase efficiency with redundant AC power supplies, fans, blower modules and chassis management controllers.

Enterprise-wide systems management

VRTX's Chassis Management Controller (CMC) resolves the problems of systems management tool proliferation and complexity with converged management of server nodes, shared storage, networking and power in a unified tool, all in a single console.

Access CMC through an intuitive, easy-to-use web interface that works with a variety of Dell OpenManage™ tools including the iDRAC with Lifecycle Controller embedded within each server node. Embedded management in the VRTX platform allows IT

administrators to manage Dell hardware in physical, virtual, local and remote environments, and gives the choice of managing the system out-of-band, completely agent-free, or inband with a systems management agent installed.

CMC's unified management console for VRTX server nodes, storage and networking can reduce complexity, enhance productivity and help to enable maximum uptime, which in turn can reduce administration time and the cost of ownership.

For remote management, **OpenManage Essentials**, a free software download from Dell.com/Support, monitors and manages multiple VRTX platforms in different locations. Exclusive to VRTX systems with Enterprise-licensed CMC, the geographical mapping feature of OpenManage Essentials can be configured to show each system's location and system and component health status.

OpenManage iDRAC with Lifecycle Controller integrates and connects to leading third-party systems management solutions (such as those from Microsoft, VMware, and BMC Software), so you can maintain a single point of control and capitalize on an existing systems management investment.

Flexibility within a stable platform

VRTX is both flexible and stable. Flexible in its extensive hardware configurability and scalability, while consistent and uniform in performing systems management operations. These characteristics give you confidence that VRTX can readily adapt to accommodate new workload requirements, while protecting existing investments in hardware, software, management tools and skills.

PowerEdge VRTX

- Integrated IT solution, optimized for office environments

- Simplified systems management

- Mix and match up to four server nodes, choosing from two-socket, half-height PowerEdge M630 server nodes and four-socket, full-height M830 server nodes

- Up to eight PCIe slots

Feature	PowerEdge VRTX technical specification
Chassis enclosure	Form factors: • Tower or 5U rack enclosure Tower configuration: • H: 48.4 cm (19.1 in) with system feet, W: 31.0 cm (12.2 in) with system feet opened, D: 73.0 cm (28.7in), Weight (empty) = 31.7 kg (69.7 lb), Weight (maximum) = 74.8 kg (164.9 lb) Rack configuration: • H: 21.9 cm (8.6 in), W: 48.2 cm (19.0 in), D: 73.0 cm (28.7 in), Weight (empty) = 24.7 kg (54.5 lb), Weight (maximum) = 68.7 kg (151.5 lb)
Server node options	Dell PowerEdge M630 and M830 server nodes
Power supplies	Redundant power supply units support 2+2 (AC redundancy) and 3+1 and 2+1 (power supply redundancy) modes • US/Canada: 110/220V (typical) • EU/China: 220-240V • Japan: 100V/220V • Other: Up to 240V
Cooling	PowerEdge VRTX comes standard with 6 hot-pluggable, redundant fan modules and 4 blower modules based on Dell Energy Smart Technologies. The fans and blowers deliver low-power consumption, but also use next-generation fan technologies to ensure the lowest possible amount of fresh air is consumed to cool the enclosure.
Input devices	Front control panel with interactive graphical LCD that supports initial configuration wizard. It also supports local server blade, enclosure and module information and troubleshooting. Two USB keyboard/mouse connections and one video connection for local front "crash cart" console connections, optional DVD RW available.
RAID controller	Single shared PERC8 with optional second redundant shared PERC8 available
Drive bays and hard drives	Up to 12 x 3.5" NLSAS, SAS or SAS SSD hot-plug drives or up to 25 x 2.5" NLSAS, SAS or SAS SSD hot-plug drives. Optional FIPS 140-2 certified self-encrypting drives (SED), up to 25 x 2.5 NLSAS, SAS or SAS SSD
JBOD expansion options	Chassis storage can be expanded even further by connecting up to four MD1200 (12 x 3.5" drives) or MD1220 (24 x 2.5" drives) disk arrays
Integrated networking – ethernet	• Internal 1GbE 8-port pass-through module • Internal 1GbE 24-port switch • Internal 10GbE switch
I/O slots	8 flexible PCIe slots: • 3 full-height/full-length slots (150W) with double-wide card support (225W) • 5 low-profile/half-length slots (25W)
Systems management	Delivers comprehensive functionality yet simple and easy to use: • Uses Chassis Management Controller to manage all resources (server nodes, storage, networking and power) with a unified management tool, presented in a single console • Monitors up to 9 VRTX chassis from a single, consolidated CMC console • Offers both local and remote management • Available with either Enterprise or Express CMC licensing • Redundant CMC available • Server nodes each contain proven iDRAC with Lifecycle Controller for agent-free systems management, fully supported in the OpenManage product portfolio
Rack support	ReadyRails™ II sliding rails for 4-post racks with square, round or threaded holes
For more information	For more information about VRTX, see the PowerEdge VRTX Technical Guide.

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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