Dell PowerEdge VRTX

Converges servers, storage and networking into a single, office-optimized chassis to manage and consolidate business applications.

The Dell™ PowerEdge™ VRTX was designed to deliver IT simplicity, efficiency and agility to offices of all sizes, and specifically for remote offices and small and midsize businesses.

VRTX's compute power, shared storage capacity, and high availability capabilities, combined with VRTX's robust systems management, make it a highly attractive platform for a wide range of workloads in a broad spectrum of industries.

Eliminate integration problems

PowerEdge VRTX can help solve hardware disparity, sprawl and lack of space through the convergence of servers, storage and networking into a 5U rackable desk-side chassis with the capacity to support up to four server nodes.

Eliminate integration problems with this pre-integrated, pre-tested, certified server, shared storage, networking, operating systems/hypervisor, and management for confident deployment and smooth ongoing operation.

With vast scalability available inside the chassis, additional servers and/or hard drives can be inserted without the need for more floor space or rack space, and without any additional cables.

VRTX's feature-rich, 2-socket, half-height PowerEdge M520 and M620 server nodes are proven platforms and technologies that deliver exceptional flexibility and scalable performance.

With a choice of 12 3.5-inch or 25 2.5-inch hot-plug hard drives delivering up to 48TB, VRTX is equipped with massive shared storage options, keeping users ahead of the pace of data growth.

Integrate networking through the 1GbE internal switch module or an optional Ethernet pass-through module with 8 1GbE ports. Take advantage of flexible, expandable I/O with 8 PCIe slots—3 full-height/full-length and 5 low-profile/half-length. Capitalize with redundant 1100W AC power supplies, fans, blower modules, and chassis management controllers.

Full systems management capabilities

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.

The CMC's intuitive, easy-to-use GUI can be used from a central location and works together with the full suite of Dell OpenManage™ tools including iDRAC7 with Lifecycle Controller integrated within each server node. Embedded

management in each server and in the VRTX platform allows IT administrators to manage Dell hardware in physical, virtual, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent.

OpenManage integrates and connects to leading third-party systems management solutions (such as Microsoft®, VMWare®, and BMC Software®), so users can maintain a single point of control and capitalize on the existing investment.

For remote management, OpenManage Essentials monitors and manages multiple VRTX systems in different locations and with the new GeoView® feature, OpenManage Essentials can be configured to show each system's map location and health status.

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.

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 users confidence that VRTX can readily adapt to accommodate new workload requirements, while protecting existing investments in hardware, software, management tools and skills.

PowerEdge VRTX

- Optimized for office environments including acoustics

- Converged servers, storage and networking

- Supports up to four 2-socket, half-height M620 and M520 server nodes

- Up to 8 PCIe slots

- Up to 48TB storage capacity inside the chassis

- Simplified systems management

Feature	PowerEdge VRTX Technical Specifications
Chassis enclosure	Form factors: • Tower or 5U rack enclosure Tower configuration: • 48.4cm (19.1in) H with system feet x 31.0cm (12.2in) W with system feet opened x 73.0cm (28.7in) D • Weight (empty) = 31.7kg (69.7lb) • Weight (maximum) = 74.8kg (164.9lb) Rack configuration: • 21.9cm (8.6in) H x 48.2cm (19.0in) W x 73.0cm (28.7in) D • Weight (empty) = 24.7kg (54.5lb) • Weight (maximum) = 68.7kg (151.5lb)
Server node options	Dell PowerEdge M620 and M520 servers
Power supplies	Redundant power supply units: • 110/220V auto-sensing • Redundant power supplies support 2+2 (AC redundancy), and 3+1, 2+1, and 1+1 (power supply redundancy) modes
Cooling	VRTX comes standard with 6 hot-pluggable, redundant fan modules and 4 blower modules: • Based on Dell Energy Smart Technologies, VRTX fans and blowers are a breakthrough in power and cooling efficiency • 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: • Supports initial configuration wizard • 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
Raid controller	Shared PERC8
Drive bays and hard drives	Up to 12 x 3.5in NLSAS, SAS, or SAS SSD hot-plug drives or Up to 25 x 2.5in NLSAS, SAS, or SAS SSD hot-plug drives
Embedded NIC	1GbE internal switch module (standard) with 16 internal 1GbE ports and 8 external ports Ethernet pass-through module with 8 external ports (optional)
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 (CMC) to manage all resources (server nodes, storage, networking, and power) with a unified management tool, presented in a single console • Monitors up to nine VRTX chassis from a single, consolidated CMC console • Offers both Local and Remote management • Is available with either Enterprise or Express CMC licensing for CMC • Redundant Chassis Management Controller is available • Server nodes each contain proven iDRAC7 with Lifecycle Controller for agent-free systems management that are fully supported within 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 on Dell.com.

Global services and support

Dell is dedicated to simplifying IT, and Dell Services can help you manage the complexities of growing and maintaining your scale-out environments. Dell's broad portfolio of planning, implementation and maintenance services can help accelerate your IT initiatives and grow your business. Dell services can be tailored to complement how you manage your environment. Options include, but are not limited to consulting services to help you optimize your data center, custom rack integration, and expert-level support to ensure maximum system uptime.

Learn more at Dell.com/PowerEdge