



POWEREDGE VRTX

Transform your business with a data center under your desk

Dell EMC PowerEdge VRTX integrates servers, storage, networking and management into a single office and edge-optimized chassis. Increase efficiency by eliminating disparate hardware and multiple management tools with the scalable and easy-to-manage VRTX platform.

Adapt and scale with an expandable, versatile platform

The PowerEdge VRTX was designed for remote-office and small-office environments with “under your desk” dimensions and quiet acoustics. The PowerEdge VRTX is built on a scalable business architecture so you can continually optimize your capacity and performance with future-proof compute, storage and networking options within a single chassis.

- Scale as you grow, with up to four PowerEdge blade servers as well as 12 x 3.5” or 25 x 2.5” HDD and GPU accelerators within its compact chassis.
- Mix and match the two-socket, half-height PowerEdge M640 server nodes and four-socket, full-height M830 based on your changing workload requirements.
- Easily add more storage by connecting to 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 1Gb Ethernet pass-through module.
- Take advantage of flexible, expandable I/O with eight PCIe slots.
- Keep operating expenses in check with energy efficient Fresh Air validated configurations and standard power requirements.

Safeguard data with integrated security

Every PowerEdge server is made with a cyber-resilient architecture, delivering security into all parts of a server’s life cycle. Dell EMC considers each part of system security, from design to end of life, to ensure trust and deliver worry-free systems.

- Maintain data safety with cryptographically signed firmware packages and Secure Boot.¹
- Prevent unauthorized or malicious change with Server Lockdown.¹
- Wipe all data from storage media including hard drives, SSDs and system memory quickly and securely with System Erase.¹
- Add another layer of protection with optional FIPS-certified self-encrypting drives (SED).

Enterprise-wide systems management

Dell EMC Chassis Management Controller (CMC) lets you manage server nodes, shared storage, networking and power in a single console. Access CMC through an easy-to-use web interface that works with a variety of Dell EMC OpenManage tools including iDRAC or extend management into a larger infrastructure with OpenManage Enterprise. Choose to manage your VRTX with embedded agent-free management or inband.

- Use the OpenManage Mobile app to receive and take action on hardware alerts at the server or from anywhere, at any time.
- Streamline management in virtualized environments with OpenManage Integrations for VMware vCenter or Microsoft System Center.
- Get rapid, at-a-glance identification of remote system locations and health status with Geoview.

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The VRTX makes an ideal alternative to a cloud solution with all your data safely stored on premise. In fact, if you are storing data and running applications in the cloud, VRTX can help lower your long-term TCO.

¹ These features are available via the PowerEdge server. Server Lockdown and System Erase is only available on M640.

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Features	Technical Specification
Chassis enclosure	<p>Form factors:</p> <ul style="list-style-type: none"> • Tower or 5U rack enclosure <p>Tower configuration:</p> <ul style="list-style-type: none"> • 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) <p>Rack configuration:</p> <ul style="list-style-type: none"> • 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	PowerEdge M640 and M830 server nodes
Power supplies	<p>Redundant power supply units support 2+2 (AC redundancy) and 3+1 (power supply redundancy) modes</p> <ul style="list-style-type: none"> • 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	<p>Front control panel with interactive graphical LCD that supports initial configuration wizard. It also supports local server blade, enclosure and module information and troubleshooting.</p> <p>Two USB keyboard/mouse connections and one video connection for local front “crash cart” console connections, optional DVD RW available.</p>
RAID controller	Single shared PERC8 with optional second redundant shared PERC8 available
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
GPU	Up to 2 single-wide actively cooled GPU accelerators (NVIDIA Quadro P4000). See Dell.com/GPU for latest information.
Integrated networking – ethernet	<p>Internal 1GbE 8-port pass-through module</p> <ul style="list-style-type: none"> • Internal 1GbE 24-port switch • Internal 10GbE switch
I/O slots	<p>8 flexible PCIe slots:</p> <ul style="list-style-type: none"> • 3 full-height/full-length slots (150W) with double-wide card support (225W) • 5 low-profile/half-length slots (25W)
Systems management	<p>Delivers comprehensive functionality yet simple and easy to use:</p> <ul style="list-style-type: none"> • 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 support and services	Choose ProSupport Plus for critical systems or ProSupport for automated proactive and predictive support. Choose ProDeploy to save set up time for PowerEdge VRTX and OpenManage tools. Availability and terms of Dell EMC Services vary by region. For more information, contact your Dell EMC representative or visit DellEMC.com/Services .
Dell Financial Services	<p>Deliver results with easy financing. Explore financial options that move at the speed of business.</p> <p>For more information, visit https://www.emc.com/products/how-to-buy/global-financial-services/index.htm.*</p>

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