

POWEREDGE XE2420

Ideal edge servers for harsh computing environments



The Dell EMC PowerEdge XE2420 is a specialty edge server that is specifically engineered to deliver powerful performance for harsh environments. It is a dual-socket, 2U, short-depth, front accessible server that is designed to support demanding edge applications such as streaming analytics, manufacturing logistics, 5G cell processing applications, etc.

Rapidly respond to demanding data growth at the edge

The new Dell EMC PowerEdge XE2420 is a highly configurable, dual-socket 2U rack server that delivers powerful 2S performance in a short-depth form-factor. With a scalable rack option, it is ideal for low-latency, large storage edge applications. Its performance can be further boosted by its support of up to 4 accelerators. A wide and flexible range of storage options (SSD, NVMe) and large capacity of up to 132 TB* gives it the flexibility to tackle a diverse set of demanding workloads at the edge.

Secure and simplified management at the edge

The PowerEdge XE2420 has features to effortlessly manage key server functions with its support of iDRAC9. Additionally, every PowerEdge server is designed with a cyber resilient architecture to protect the server robustly and integrating security deeply into every phase in the server lifecycle, from design to retirement. With the iDRAC9 Datacenter option, the PowerEdge XE2420 provides streaming telemetry capability with enhanced integrated security for emerging edge applications. Since easy serviceability is critical in harsh environments, the PowerEdge XE2420 has a cold aisle, front-accessible I/O & Power to enable quick and serviceability. With Five OS certifications and vSAN AF-4 ready, it makes it simple for PowerEdge XE2420 to seamlessly work in and with any IT environment.

Ensure reliability in harsh edge environments

Edge and non-data center environments can be harsh and can place great environmental stresses on the electrical and physical operation of the servers. The PowerEdge XE2420 is purpose-built to operate under extended system operating temperatures from 5C to 45C¹ (41F to 113F). Since these environments can be dusty, there is an optional filter built into the Bezel that is designed to remove particulate matter. It is designed to seamlessly pair with Dell EMC Modular Data Center Micro 4-series for Reliable scalability.

PowerEdge XE2420

The PowerEdge XE2420 provides a short-depth, dense, Dual-socket, 2U server to address:

- Demanding applications at the edge
- Retail applications and analytics
- Manufacturing and logistics applications
- Telco / 5G (MEC, CDN, VRAN)

PowerEdge XE2420

Features	Technical Specifications
Processor	Two 2 nd Generation Intel® Xeon® Scalable processors (max 150W Gold)
Storage	Up to 2x 2.5" SATA/NVMe (no PERC/HBA) with Config 1A, Max 15.36TB or Up to 4x 2.5" universal SAS/SATA/NVME with PERC/HBA with Config 2C, Max 61.44 TB or Up to 6x EDSFF E1.L SSD with Config 3A, Max 92.16TB
Chipset	Intel® C620 Series chipset
Memory	16x DDR4 RDIMM/LR-DIMM (12 DIMMs are balanced) up to 2993 MT/s
Boot OS Drive	HW RAID BOSS w/ 2x M.2 drives, 240GB and 480GB
Embedded / At-Server	iDRAC9; iDRAC Direct; iDRAC REST API with Redfish
GPU/Flash PCI Cards	Up to 2x PCIe x16, Up to 300W passive FHFL cards (e.g. NVIDIA V100/s or NVIDIA RTX6000), or Up to 4x PCIe x8; 75W passive (e.g. NVIDIA T4), or Up to 2x FE1 storage expansion cards (up to 20x M.2 drives on each)
Ports	2 x 1GE LOM + OCP 2.0 Mezz (2 x 1GE or 2x 10GE SFP+ or 2 x 10GE BaseT), Video, 2 x USB 3.0, iDRAC Direct USB, serial, dedicated iDRAC network port
Other IO Expansion	1xOCP2 Type 1 x8 mezzanine card slot 1x LP PCIe x8 Up to 2x PCIe x16 FHFL* or up to 4xPCIe x8 FHFL*
Security	TPM 1.2/2.0, TCM 2.0 (optional), Cryptographically signed firmware, Silicon Root of Trust, Secure Boot, System Erase
Dimensions	483.95mm x 444mm x 86.92mm (DxWxH)
Mounting	Static rails
Operating Temp	5C to 45C ¹
Chassis	Cold aisle service. All cables and connectors are accessible from the cold aisle. Optional bezel with filtration and cable management
Power	N or N+1 2000W AC reverse flow power supply N or N+1 1100W DC reverse flow power supply
OS Support/Certified	ESXi, RHEL, Windows, Ubuntu, and Suse
Telco Tested	NEBS1
Recommended support and services	Choose Dell ProSupport Plus for PowerEdge XE2420 or Dell ProSupport for premium hardware and software support for your PowerEdge XE2420. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit dell.com/itlifecycleservices
Dell Financial Services	Deliver results with easy financing. Explore financial options that move at the speed of business. For more information, visit https://dfs.dell.com .*

¹45C is the maximum temperature in limited configurations

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