DELL Technologies

Specification Sheet

PowerEdge XE7745

Purpose-built for evolving AI-powered enterprise performance and scalability needs

Extreme AI acceleration flexibility

The Dell PowerEdge XE7745 delivers the GPU diversity demanded by fast-moving AI-powered companies in industries such as finance, healthcare, manufacturing, and retail. The XE7745 empowers enterprises with AI model fine-tuning and inferencing insights with up to 8 double-wide 600W PCIe AI accelerators such as the NVIDIA H200 NVL Tensor Core GPU. The XE7745 supports up to 16 single-wide 75W PCIe AI accelerators such as the NVIDIA L4* for inferencing use cases with lower power requirements. Dell's open ecosystem of PCIe AI acceleration options allows you right-size your configuration for today's demands while future-proofing your infrastructure for evolving AI workflows.

Ease of integration

The XE7745's air-cooled 4U chassis ensures maximum PCIe GPU density per rack and frictionless deployment. With 8 additional rear-serviceable PCIe slots for high-performance, low-latency AI cluster backend network interfaces and integrated OCP 3.0 ethernet module, the XE7745 can scale data throughput to meet your growing AI demands.

Secure from the start

Simplify and streamline operations: discovery, deployment, monitoring, securing, and updating of PowerEdge servers with intuitive automation of the OpenManage management portfolio. PowerEdge servers are designed with security as a foundational principle. Harnessing cryptographic verification, system lockdown, and robust boot and firmware safeguards - anchored by a silicon Root of Trust. PowerEdge security technologies help fortify IT defenses, instilling confidence while helping accelerate the adoption of a zero-trust security strategy.

Ease of management

The OpenManage management portfolio simplifies IT operations by streamlining processes with intuitive automation. Its tools facilitate effortless discovery, deployment, monitoring, securing, and updating of PowerEdge servers, reducing downtime and complexity. By proactively managing power and cooling, OpenManage also helps deliver optimal performance and energy conservation.

Sustainability made simple

Dell PowerEdge servers offer cutting-edge energy efficiency with innovative product design. Benefit from advanced management tools for optimal energy consumption. Validated by leading eco-labels, they are a leading choice for forward-thinking IT.

Rest easier with Dell Technologies Services

Maximize your PowerEdge Servers with comprehensive services designed to meet you wherever you are. Accelerate time to value in achieving high AI use cases with **Professional Services for AI**, choose from tailored deployment options with the **ProDeploy Suite**, receive proactive and predictive support with our **ProSupport Suite**, and so much more with our services available across 170 locations and backed by our 60K+ employees and partners.

PowerEdge XE7745

The Dell PowerEdge XE7745 is powered by dual AMD 5th Generation EPYC CPUs and a diverse array of PCIe AI accelerators. Ideal for:

- AI Inferencing
- AI model fine-tuning
- AI-powered HPC applications

Feature	Technical Specifications	
Processor	Two 5th Generation AMD EPYC 9005 Series processors with up to 192 cores per processor	
Memory	• 24 DDR5 DIMM slots, supports RDIMM 2.3 TB max, speeds up to 6000 MT/s • Supports unregistered ECC DDR5 DIMMs only Note: Future releases will support 128GB DIMMs, increasing the maximum capacity to 3TB and speeds of up to 6400 MT/s	
GPU options	• 8x PCIe Gen 5 x16 DW-FHFL up to 600W or • 16x PCIe Gen 5 x16 SW-FHFL up to 75W	
Storage controllers	Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1 DC-MHS): HWRAID 1, 2 x M.2 NVMe SSDs or USB	
Front Bays	• Up to 8 x EDSFF E3.S Gen5 NVMe (SSD) max 122.88 TB	
Power Supplies	• 3200W Titanium 200-240 V AC or 240 V DC, hot swap redundant Multi capacity for 3200W PSU:3200W for 220.1-240 V AC or 2900W for 200-220 V AC	
Cooling Options	Air cooling	
Fans	• Up to four sets of high performance (HPR) platinum grade fans (dual fan module) installed in mid tray • Up to twelve high performance (HPR) platinum grade fans installed on the front of the system • All are hot swap fans	
Dimensions	• Height – 174.3 mm (6.86 inches) • Width – 482 mm (18.98 inches)	• Depth – 899.56 mm (35.42 inches) with bezel 886.73 mm (34.91 inches) without bezel
Form Factor	4U rack server	
Embedded Management	• iDRAC10 • iDRAC Direct* • iDRAC RESTful API with Redfish	• iDRAC Service Module (iSM)* • RACADM CLI
OpenManage console	• OpenManage Enterprise (OME)* • OME Power Manager* • OME Services*	• OME Update Manager* • OME APEX AIOps Observability* • OME Integration for VMware vCenter (with VMware Aria Operations)*
Bezel	Optional security bezel	
Tools	• IPMI	
Change Management	• Enterprise Catalogs / Linux Repositories	
OpenManage Integrations	• RedHat Ansible Collections*	• Terraform Providers*
Security	• AMD Secure Memory Encryption (SME) • AMD Secure Encrypted Virtualization (SEV) • Chassis Intrusion Detection • Cryptographically signed firmware • Data at Rest Encryption (SEDs with local or external key mgmt)*	• Secure Boot • Secured Component Verification (Hardware integrity check) • Secure Erase • Silicon Root of Trust • System Lockdown (requires iDRAC10 Enterprise or Datacenter) • TPM 2.0 FIPS, CC-TCG certified
Ports	Front Ports: • 1 x USB 2.0 Type-A (optional) • 1 x Mini-Display port (optional) • 1 x USB 2.0 Type-C dual mode (Host/iDRAC Direct port)	Rear Ports on DC-SCM: • 1 x Dedicated iDRAC/BMC Direct Ethernet port • 2 x USB 3.1 Type A port • 1 x VGA
	Internal Port: • 1 x USB 3.1 Type-A	
PCIe	Up to 8 PCIe Gen5 x16 SW-FHHL cards, each up to 150W	
OCP Network options	1 x OCP NIC card 3.0 (optional)	
Operating System and Hypervisors	• Canonical Ubuntu Server LTS • RedHat Enterprise Linux* • SUSE Linux Enterprise Server*	• VMware ESXi* For specifications and interoperability details, see **Dell.com/OSsupport**.
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit **Dell.com/OEM**.	

*Expected to be available in the first half of 2025. Planned Offerings are subject to change and may not be released as originally designed.

APEX on Demand

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