



PowerEdge XE7740

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

Extreme AI acceleration flexibility

The Dell PowerEdge XE7740 delivers the GPU diversity demanded by fast-moving AI-powered companies in industries such as finance, healthcare, manufacturing, and retail. The XE7740 empowers enterprises with AI model fine-tuning and inferencing insights with up to 16 single-wide 75W or 8 double-wide 600W PCIe AI accelerators such as Intel® Gaudi® 3* and NVIDIA H200 NVL. 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 XE7740's air-cooled 4U chassis ensures maximum PCIe GPU density per rack and frictionless deployment. With 8 additional front-serviceable PCIe slots for high-performance, low-latency AI cluster backend network interfaces and integrated OCP 3.0 ethernet module, the XE7740 can scale data throughput to meet your growing AI demands.

Secure from the start

Simplify and streamline operations with the intuitive automation of the OpenManage management portfolio. PowerEdge servers are designed with security as a foundational principle, incorporating cryptographic verification, system lockdown, and robust boot and firmware safeguards anchored by a silicon Root of Trust. These technologies help fortify IT defenses while supporting the adoption of a zero-trust security strategy.

Ease of management

The OpenManage management portfolio simplifies IT operations by streamlining processes with intuitive automation. From discovery and deployment to monitoring, securing, and updating PowerEdge servers, these tools reduce downtime and complexity. Proactive power and cooling management also deliver optimal performance and energy conservation.

Sustainability made simple

Dell PowerEdge servers excel in energy efficiency through innovative product designs and advanced management tools. Validated by leading eco-labels, they're an ideal choice for forward-thinking IT organizations striving for sustainability.

Rest easier with Dell Technologies Services

Maximize your PowerEdge Servers with comprehensive services designed to meet your needs. Accelerate time to value with **Professional Services for AI**, choose from tailored deployment options with the **ProDeploy Suite**, and receive proactive and predictive support with our **ProSupport Suite**. Dell Technologies services, available across 170 locations and supported by over 60K employees and partners, help ensure success at every step.

PowerEdge XE7740

The Dell PowerEdge XE7740 is powered by dual Intel XEON™ 6 CPUs and a diverse array of PCIe AI accelerators. Ideal for:

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

For more information, contact Dell Technologies Expert or view our full specs online.

| Feature | Technical Specifications | |
|----------------------------------|--|---|
| Processor | Two Intel® Xeon® 6 series processors with up to 86 cores per processor | |
| Memory | <ul style="list-style-type: none"> 32 DDR5 DIMM slots, supports RDIMM 3 TB max, speeds up to 6400 MT/s Supports unregistered ECC DDR5 DIMMs only Note: Future releases will support 128GB DIMMs, increasing the maximum capacity to 4TB | |
| GPU options | <ul style="list-style-type: none"> 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 | |
| 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Height – 174.3 mm (6.86 inches) Width – 482 mm (18.98 inches) | <ul style="list-style-type: none"> Depth – 899.56 mm (35.42 inches) with bezel 886.73 mm (34.91 inches) without bezel |
| Form Factor | 4U rack server | |
| Embedded Management | <ul style="list-style-type: none"> iDRAC10 iDRAC Direct* iDRAC RESTful API with Redfish | <ul style="list-style-type: none"> iDRAC Service Module (iSM)* RACADM CLI |
| OpenManage console | <ul style="list-style-type: none"> OpenManage Enterprise (OME)* OME Power Manager* OME Services* | <ul style="list-style-type: none"> OME Update Manager* OME APEX AIOps Observability* OME Integration for VMware vCenter (with VMware Aria Operations)* |
| Bezel | Optional security bezel | |
| Tools | <ul style="list-style-type: none"> IPMI | |
| Change Management | <ul style="list-style-type: none"> Enterprise Catalogs / Linux Repositories | |
| OpenManage Integrations | <ul style="list-style-type: none"> RedHat Ansible Collections* | <ul style="list-style-type: none"> Terraform Providers* |
| Security | <ul style="list-style-type: none"> Chassis Intrusion Detection Cryptographically signed firmware Data at Rest Encryption (SEDs with local or external key mgmt)* Secure Boot | <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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) Internal Port: <ul style="list-style-type: none"> 1 x USB 3.1 Type-A | Rear Ports on DC-SCM: <ul style="list-style-type: none"> 1 x Dedicated iDRAC/BMC Direct Ethernet port 2 x USB 3.1 Type A port 1 x VGA |
| PCIe | Up to 8 PCIe Gen5 x16 SW-FHHL cards, each up to 150W | |
| OCN Network options | 1 x OCP NIC card 3.0 (optional) | |
| Operating System and Hypervisors | <ul style="list-style-type: none"> Canonical Ubuntu Server LTS RedHat Enterprise Linux* SUSE Linux Enterprise Server* | <ul style="list-style-type: none"> 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.

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