



# POWEREDGE XE7100

## Extreme storage dense server to accelerate data insights

The Dell EMC PowerEdge XE7100 has the highest storage density in a standard rack depth 5U server<sup>1</sup>. It delivers outstanding scalability and density with up to 2 dual socket nodes.

### Transform data into actionable business insights

Data is the lifeblood of an enterprise. Transforming fast-growing data into actionable insights requires a highly scalable infrastructure. The PowerEdge XE7100 is a dense storage server purposely built for a scalable, reliable and secure environment.

- Excellent cost per GB with up to **100** toolless internal hard drives, max storage at **1.6PB**. Scale easily with **67%<sup>2</sup> more** high capacity drives per unit than a competitive system
- Optimized for emerging workloads with **2x 2nd Gen Intel® Xeon® Scalable Processors per node** and minimized memory I/O bottleneck
- Boost rich data analytics performance with up to **4x** accelerators and numerous flash memory options
- Maximized scalability in near edge environment with a standard rack depth

### Maximize uptime to drive business value

To meet real-time, data-intensive workload requirements, infrastructure and IT operations need to be highly reliable and simplified. The PowerEdge XE7100 maintains high efficiency with hot-plug architecture. The PowerEdge server lifecycle management experience is streamlined and automatable with iDRAC9.

- Ease of service without power-down interruptions with durable **hot-plug architectures** for drives, memory, PSU, and fans
- Simplified management with 2 hinged trap door type lids, rails, and cable management arm
- Reduced cable management complexity with up to **50%<sup>3</sup>** fewer power cables; enhanced power supply efficiency for lower carbon footprint with **25%<sup>4</sup>** less power provisioned
- Automate server life cycle management via the industry-leading iDRAC and Redfish APIs

### Protect your valuable data assets with a highly secure system

PowerEdge XE7100 server is designed with a cyber-resilient architecture, integrating security deeply into every phase in the lifecycle, from design to retirement.

- Operate your workloads on a secure platform anchored by cryptographically trusted booting and silicon root of trust
- Maintain server firmware safety with digitally signed firmware packages
- Prevent unauthorized configuration or firmware change with system lockdown
- Securely and quickly wipe all data from storage media, including hard drives, SSDs and system memory with System Erase

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- Object Storage
- Intelligent Video Analytics (IVA)
- Media Streaming

## PowerEdge XE7100

Features	Technical Specifications	
Chassis	XE7100 (5U X 100 drives)	
Nodes	Single node (XE7440) or Dual node (XE7420) options, HW HA (High Availability) not supported	
Processor	Two 2 <sup>nd</sup> Generation Intel® Xeon® Scalable processors per node	
Memory	Up to 16x per node DDR4 RDIMM(8GB/16GB/32GB/64GB) / LR-DIMM(128GB)*	
Controllers/ Hardware RAID	PERC H730P Mezzanine mini PERC – For Boot PERC H745P Adapter– For Primary Storage HBA 355 Adapter– For Primary Storage <sup>1</sup>	
Storage	<p><b>Up to 100x toolless drive carriers:</b></p> <p>Up to 100x 3.5" SATA/SAS (HDD), 12, 16TB SATA, 16TB NL SAS</p> <p>Up to 20 (out of 100) can be 2.5" SSD, Multiple RI and MU SSD options, RI: 480 to 3840G, MU: 800 to 1920G</p> <p><b>BOOT:</b></p> <p>Up to 4x 2.5" slim (7mm) SATA SSDs per node, Intel 480 &amp; 960G</p> <p>Up to 2 (out of 4) can be NVMe (2.5" slim 7mm), Micron 960 &amp; 1920G, WD 800* &amp; 1600G*</p>	
Accelerator/ GPU	1x PCIe x16, up to 250W passive FHFL cards (Nvidia V100S or T4), or 1x FE1 M.2 (up to 20x M.2 drives), M.2 drives Micron 960G & 1.92 TB, or Up to 4x Nvidia T4	
Ports	Dedicated/ shared iDRAC network port, 2 USB, VGA	
IO Expansion	1x OCP type 2 v2 Mezz card slot	
PCIe Card Expansion	1x PCIe x16 LP	
Power	2x 2400W hot-plug Power Supply Units	
Fan	3x hot-plug dual fans	
Embedded/At-Server	iDRAC9; iDRAC Direct; iDRAC REST API with Redfish	
Security	TPM: TRPM 2.0, CTPM 2.0 (optional) Cryptographically signed firmware, Silicon Root of Trust, Secure Boot, System Erase	
Dimensions	222.25mm (5U) H x 448mm W x 911mm D	
OS Support/Certified	Canonical® Ubuntu® VMware® ESXi® Microsoft® Windows Server®	Red Hat® Enterprise Linux SUSE® Linux Enterprise Server
Operating Temperature	5C to 35C (50F to 95F)	
Recommended support and services	Choose Dell ProSupport Plus for PowerEdge XE7100 or Dell ProSupport for premium hardware and software support for your PowerEdge XE7100. 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 <a href="http://www.delltechnologies.com/Services">www.delltechnologies.com/Services</a>	
Dell Technologies on Demand	Consume technology, infrastructure and services any way you want with Dell Technologies on Demand, the industry's broadest end-to-end portfolio of flexible consumption and as-a-Service solutions. For more information, visit: <a href="http://www.delltechnologies.com/ondemand">www.delltechnologies.com/ondemand</a>	

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Features	Technical Specifications
Networking	<p><b>OCP NIC:</b> BCM 57414 Dual Port 25Gbe SFP28 BCM 57416 Dual Port 10Gbe SFP+ Intel X710 Dual Port 10Gbe SFP+</p> <p><b>Additional NICs:</b></p> <p><b>PCIe Low Profile:</b> BCM 57414 Dual Port 25Gbe SFP28 BCM 57416 Dual Port 10Gbe Base T* Intel X550 Dual Port 10Gbe Base T Intel X710 Dual Port 10Gbe Base T* Intel XXV710 Dual Port 25Gbe SFP28 Intel E810-XXV Dual Port 25Gbe SFP28* Intel X710 Dual Port 10Gbe SFP+</p> <p>Mellanox Connect X5 Dual Port 100Gbe QSFP Mellanox Connect X5 Dual Port 25Gbe SFP28* Mellanox ConnectX-4 Lx Dual Port 25Gbe DA/ SFP Mellanox Connect X6 Dual Port 100Gbe QSFP*</p> <p><b>PCIe Full Height:</b> BCM 57414 Dual Port 25Gbe SFP28 BCM 57416 Dual Port 10Gbe Base T* Intel X550 Dual Port 10Gbe Base T* Intel X710 Dual Port 10Gbe Base T* Intel XXV710 Dual Port 25Gbe SFP28* Intel E810-XXV Dual Port 25Gbe SFP28* Intel X710 Dual Port 10Gbe SFP+*</p> <p>Mellanox Connect X5 Dual Port 100Gbe QSFP* Mellanox Connect X5 Dual Port 25Gbe SFP28* Mellanox ConnectX-4 Lx Dual Port 25Gbe DA/ SFP Mellanox Connect X6 Dual Port 100Gbe QSFP*</p>

\*Some configuration options will be supported post-RTS

<sup>1</sup> Based on Dell analysis, April 2020, The industry's first standard rack depth 5U Server with support for 100 internal hard drives. AD# G20000114

<sup>2</sup> Based on Dell Analysis, April 2020, comparing a Dell EMC PowerEdge XE7100 with 100 capacity drives to an HPE Apollo 4510 with 60 capacity drives. AD# G20000105

<sup>3</sup> Based on Dell Analysis, April 2020, comparing the 2-power supply solution in the Dell EMC PowerEdge XE7100 to the 4 power supply solution in the HPE Apollo 4510. AD# G20000107

<sup>4</sup> Based on Dell Analysis, April 2020, comparing a Dell EMC PowerEdge XE7100 with (2) 2400W power supplies to an HPE Apollo 4510 with (4) 1600W power supplies. AD# G20000111

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