

Dell Technologies ISG Portfolio Overview

Cao Thuy - Solution Architect
Dell Technologies

The next generation PowerEdge server portfolio

Purpose-built to address evolving customer needs

Data Center

Optimized



R470



R570



R6715



R7715

Performance



R670



R770



R6725



R7725

Modular



PowerEdge Dense Server

AI/ML



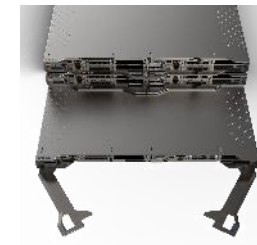
XE9680/XE9680L/XE9685L



XE7740/XE7745
PCIe GPUs



XE9712*
GB200 NVL72



XE8712*
GB200 NVL4 Dense

*subject to change

Dell PowerEdge Next Gen Servers Side by Side

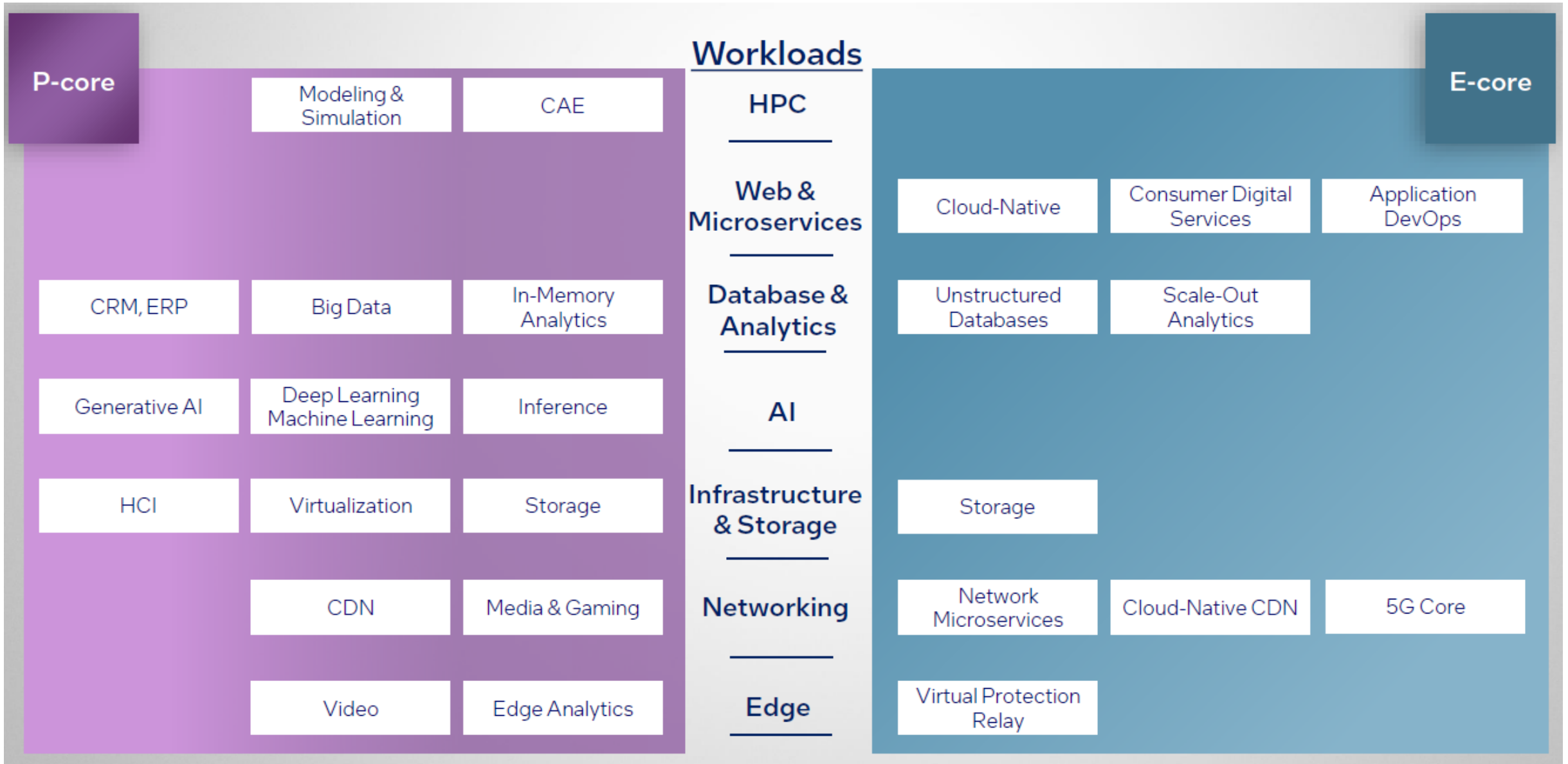
Performance

Optimized



R670	R770	R470	R570
<ul style="list-style-type: none"> • 2 Sockets / 2DPC / 1U • 32 DIMMs • 22 E3 drives • 10 2.5" Drives • I/O: <ul style="list-style-type: none"> • 3x PCIe Gen5 • 2x OCP 3.0 slots • iDRAC 	<ul style="list-style-type: none"> • 2 Sockets / 2DPC / 2U • 32 DIMMs • 44 E3 drives • 20 2.5" Drives • I/O: <ul style="list-style-type: none"> • 8x PCIe Gen5 • 2x OCP 3.0 slots • iDRAC 	<ul style="list-style-type: none"> • 1 Socket / 2DPC / 1U • 16 DIMMs • 16 E3 drives • 3.5" HDD support • I/O: <ul style="list-style-type: none"> • 2xFHHL/LP PCIe Gen5 • 2x OCP 3.0 slots • iDRAC 	<ul style="list-style-type: none"> • 1 Socket / 2DPC / 2U • 16 DIMMs • 32 E3 drives • 3.5" HDD support • I/O: <ul style="list-style-type: none"> • 4 x FHHL PCIe Gen5 + DW GPU • 2x OCP 3.0 slots • iDRAC
<ul style="list-style-type: none"> • High density virtualization & Cloud-Native • Scale-Out Database • Software-Defined Storage • Dense GPU support 	<ul style="list-style-type: none"> • Max virtualization, Hyper-converged, & Cloud-Native • Big Data & Analytics • Software-Defined Storage • Dense GPU support 	<ul style="list-style-type: none"> • Medium-density virtualization & Cloud-Native • Scale-out Database • Software-Defined Storage • GPU support 	<ul style="list-style-type: none"> • Software Virtualization • Medium VM density and VDI • Software-Defined Storage • GPU support
2TB (on SRF) 8TB (on GNR)	2TB (on SRF) 8TB (on GNR)	1TB (on SRF) 4TB (on GNR)	1TB (on SRF) 4TB (on GNR)

E-Core vs P-Core Workloads



PowerEdge XE-Series Family

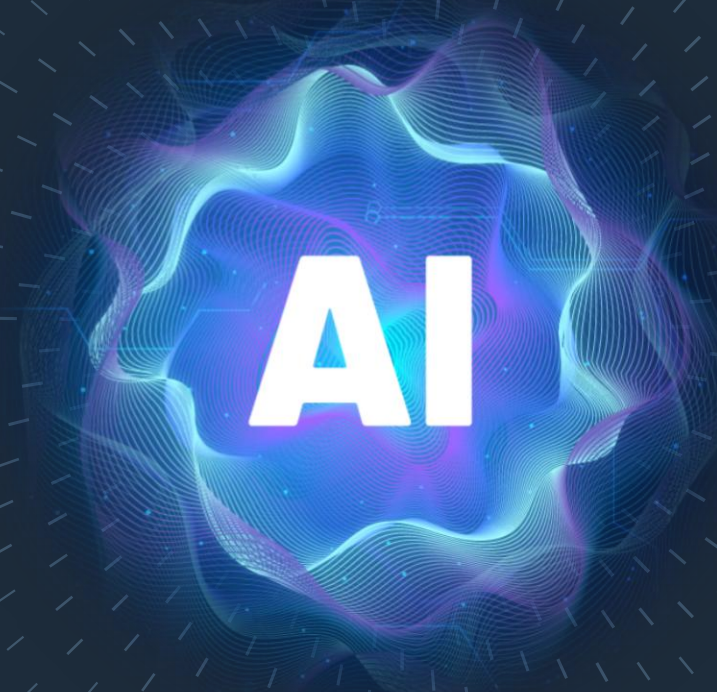
XE-SERIES

Latest AI Servers

Capability	Specification
Processor	AMD, Intel, or NVIDIA CPUs
GPU	Multiple form factors from AMD, Intel, and NVIDIA
Memory	Up to DDR5 system and HBM3e GPU RAM
Storage	Multiple NVMe and SAS/SATA SSD drive options
Networking	High-speed Ethernet and InfiniBand optimized networking options
Power Supply	Redundant, high-efficiency power supplies
Cooling	Advanced air and liquid cooling options
Expansion Slots	PCIe Gen5 slots for additional cards
Management	Dell iDRAC and OpenManage systems management suite
Form Factor	Both traditional and sled-based rack-mounted server form factors

Ideal for

- Accelerated AI, ML, and data-intensive tasks.
- Seamless handling of large datasets and memory-intensive applications
- Scalable and fast data access
- Faster data transfer and reduced latency
- Simplified and efficient system monitoring and management.
- High-performance computing



XE7740 / XE7745



XE9780 / XE9785



XE9780L / XE9785L

For more detailed specifications visit [Dell.com](https://www.dell.com)



Latest generation PowerEdge XE-Series servers



XE7740
XE7745

XE9680

XE9780¹
XE9785¹

XE9680L
XE9685L

XE9780L¹
XE9785L¹

XE8712¹

XE9712¹

Replaces	R760xa, XE8640	XE8545	XE9680	N/A	XE9680L, XE9685L	XE9640	N/A
CPU	Up to 86 core Xeon 6 AP Up to 192 core EPYC 900x	Up to 64C core Xeon 5	Up to 84C Xeon 6 AP Up to 192C EPYC 900x	Up to 64C Xeon 6 SP Up to 192C EPYC 900x	Up to 84C Xeon 6 SP Up to 192C EPYC 900x	Nvidia Grace (ARM)	Nvidia Grace (ARM)
GPU	Up to 8x DW or 16x SW PCIe GPUs: H200 NVL, RTX Pro™ 6000, etc.	8x SXM/OAM GPUs: H100, H200, MI300X, Gaudi 3	8x SXM/OAM GPUs: HGX™ B300, MI350X	8x SXM GPUs: H200³, B200	8x SXM/OAM GPUs: HGX B300, MI355X²	GB200 NVL4 GPUs	GB200 NVL72, GB300 NVL72
Rack	EIA 19" and IR5000 rack compatible				Requires 21" ORv3-inspired IR7000 rack		
Cooling	Air	Air	Air	DLC	DLC		
U Height	4 U	6U	10 U	4 U	3 OU per sled	1 OU per sled	
Architecture	Monolithic Server: compute and power in a single chassis				Rack-Scale System: compute node sleds and disaggregated power-shelves with power distributed via rear shared power bus bars		
Power Supply	In-server PSUs				Disaggregated rack power		
Deployment offer	Stand-alone server with optional rack integration				Integrated rack only		

¹RTS coming - 2H CY25

²XE9785 and XE9785L Only

³XE9680L

PowerEdge XE9780

Air-cooled AI large model training, fine-tuning and large-scale inferencing...

2 socket capable

- Intel Xeon 6 Processors

Systems management

- iDRAC
- OpenManage Enterprise

Support for up to 16 drives

- 16x E3.s or 10x U.2 direct attach
- BOSS capable



GPU optimized

- 8x NVIDIA B200* SXM GPUs or 8x NVIDIA B300 GPUs
- Full 8-way GPU to GPU interconnectivity
- 1:1+ GPU:NIC ratio
- GPU Direct RDMA capable

*limited to 2 fixed configurations

Support for high-speed and memory capacity

- 32 DDR5 DIMMs

Flexible I/O

- 8x GPU connected ConnectX-8 OSPF network interfaces
- 4x PCIe Gen 5 network interfaces
- 12x PCIe Gen5x16 FH network interfaces (B200)
- OCP 3.0 networking slot



Recommended connectivity for AI fabrics

- Ultra-fast, high-density 64 port, 800GbE Ethernet switches
- PowerSwitch Z-Series with Intel Gaudi for an open and standards-based AI fabric option
- PowerSwitch SN-Series for customers looking for end-to-end NVIDIA Reference Designs

PowerEdge XE9785

Air-cooled AI large model training, fine-tuning and large-scale inferencing...

2 socket capable

- AMD EPYC 5 processors

Systems management

- iDRAC
- OpenManage Enterprise

Support for up to 16 drives

- 16x E3.s or 10x U.2 direct attach
- BOSS capable



GPU optimized

- 8x NVIDIA B300 SXM GPUs or
- 8x AMD Instinct MI350 Series GPUs
- Full 8-way GPU to GPU interconnectivity
- 1:1+ GPU:NIC ratio
- GPU Direct RDMA capable

*limited to 2 fixed configurations

Support for high-speed and memory capacity

- 24 DDR5 DIMMs

Flexible I/O

- 8x GPU connected ConnectX-8 OSPF and 4x PCIe Gen 5x16 FH network interfaces (B300)
- 12x PCIe Gen5x16 FH network interfaces (MI350X series)
- One OCP 3.0 slot



Recommended connectivity for AI fabrics

- Ultra-fast, high-density 64 port, 800GbE Ethernet switches
- PowerSwitch Z-Series with Intel Gaudi for an open and standards-based AI fabric option
- PowerSwitch SN-Series for customers looking for end-to-end NVIDIA Reference Designs

PowerEdge XE7740

Air-cooled AI Inferencing
and model fine-tuning for
the enterprise

2 socket capable

- Intel Xeon 6 processors

GPU optimized

- Up to 8x 600W Double Width PCIe GPUs
- Up to 16x 75W Single Width PCIe GPUs
- PCIe GPU vendor and type flexibility

Support for up to 8 drives

- NVMe direct attach only

System management

- iDRAC
- OpenManage Enterprise

Support for high-speed and memory capacity

- 32 DDR5 DIMMs

Flexible I/O

- Up to 8 x PCIe Gen5x16 FH slots
- One OCP 3.0 slot



Recommended connectivity for AI fabrics

- Ultra-fast, high-density 64 port, 800GbE Ethernet switches
- PowerSwitch Z-Series with Intel Gaudi for an open and standards-based AI fabric option
- PowerSwitch SN-Series for customers looking for end-to-end NVIDIA Reference Designs

PowerEdge XE7745

Air-cooled AI Inferencing
and model fine-tuning for
the enterprise

2 socket capable

- AMD EPYC 5 processors

GPU optimized

- Up to 8x 600W Double Width PCIe GPUs
- Up to 16x 75W Single Width PCIe GPUs
- PCIe GPU vendor and type flexibility

Support for up to 8 drives

- NVMe direct attach only

System management

- iDRAC
- OpenManage Enterprise

Support for high-speed and memory capacity

- 24 DDR5 DIMMs

Flexible I/O

- Up to 8 x PCIe Gen5x16 FH slots
- One OCP 3.0 slot



Recommended connectivity for AI fabrics

- Ultra-fast, high-density 64 port, 800GbE Ethernet switches
- PowerSwitch Z-Series with Intel Gaudi for an open and standards-based AI fabric option
- PowerSwitch SN-Series for customers looking for end-to-end NVIDIA Reference Designs