

PowerEdge R740XD2 Information Update - Tech Sheet



View our **PowerEdge R740xd2**
inventory [here](#)

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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Overview

The information in this document supersedes the information in the pertinent sections of the Installation and Service Manual, BIOS and UEFI Reference Guide, and Technical Specifications.

For a complete list of information, see the documents available at <https://www.dell.com/poweredgemanuals>.

Topics:

- [Revision history](#)

Revision history

This section provides a description of document changes.

Table 1. Document Revision history

Document Revision	Date	Description of changes
1	November, 2022	1. Updated PSU Specifications 2. Product comparison

Information Update

Topics:

- [PSU specifications](#)
- [Product comparison](#)

PSU specifications

The Dell Technologies PowerEdge R740xd2 system supports up to two AC or DC power supply units (PSUs).

Table 2. PSU specifications

PSU	Class	Heat dissipation (maximum)	Frequency	Voltage	AC		DC	Current
					High line 200–240 V	Low line 100–120 V		
1600 W HLAC	Titanium	5970 BTU/hr	50/60 Hz	200-240VAC	1600W	NA	NA	10 A
1100 W AC	Platinum	4100 BTU/hr	50/60 Hz	100–240 V AC	1100 W	1050 W	NA	12 A–6.5 A
1100 W Mixed Mode HVDC (for China and Japan only)	Platinum	4100 BTU/hr	50/60 Hz	100–240 V AC	1100 W	1050 W	NA	12 A–6.5 A
	Platinum	4100 BTU/hr	NA	200–380 V DC	NA	NA	1100 W	6.4 A–3.2 A
750 W HLAC	Titanium	2843 BTU/hr	50/60 Hz	200-240VAC	750 W	NA	NA	5 A
750 W AC	Platinum	2891 BTU/hr	50/60 Hz	100–240 V AC, autoranging	750 W	750 W	NA	10 A–5 A
750 W Mixed Mode	Platinum	2891 BTU/hr/	50/60 Hz	100–240 V AC, autoranging	750 W	750 W	NA	10 A–5 A
	Platinum (For China only)	2891 BTU/hr/	NA	240 V DC	NA	NA	750 W	4.5A
750 W Mixed Mode HVDC (for China only)	Platinum	2891 BTU/hr	50/60 Hz	100–240 V AC, autoranging	750 W	750 W	NA	10 A–5 A
	Platinum	2891 BTU/hr	NA	240 V DC	NA	NA	750 W	4.5 A

NOTE: Heat dissipation is calculated using the PSU wattage rating.

NOTE: This system is also designed to connect to the IT power systems with a phase-to-phase voltage not exceeding 240 V.

Product comparison

Table 3. Feature comparison

Feature	PowerEdge R540	PowerEdge R740xd2
Processors	2 nd generation Intel Xeon Scalable processor	2 nd generation Intel Xeon Scalable processor
Chipset	Intel C621	Intel C620
Memory	16 x DDR4 RDIMM	16 x DDR4 RDIMM
Disk Drives	3.5-inch or 2.5-inch 12 Gb SAS or 6 Gb SATA drive in 3.5-inch carrier	3.5-inch or 2.5-inch 12 Gb SAS or 6 Gb SATA drive in 3.5-inch carrier
PCIe Slots	5 slots + LOM riser connectors 5 PCIe slots: Slot-6: PCIe Gen3 x4 from PCH Slot-5: PCIe Gen3 x4 from Processor 1 Slot-4: PCIe Gen3 x16 from Processor 2 (left riser: slot 3) Slot-3: PCIe Gen3 x8 from Processor 1 (right riser: riser 1 slot) Slot-2: PCIe Gen3 x8 (or x16) from Processor 1 (right riser: riser 1 slot) Slot-1: LOM riser connector A x8 from Processor 1. Internal PERC slot: PCIe Gen3 x8 from Processor 1	5 slots + LOM riser connectors 5 PCIe slots: Slot-6: PCIe Gen3 x4 from PCH Slot-5: PCIe Gen3 x4 from Processor 1 Slot-4: PCIe Gen3 x16 from Processor 2 (left riser: slot 3) Slot-3: PCIe Gen3 x8 from Processor 1 (right riser: riser 1 slot) Slot-2: PCIe Gen3 x8 (or x16) from Processor 1 (right riser: riser 1 slot) Slot-1: LOM riser connector A x8 from Processor 1. Internal PERC slot: PCIe Gen3 x8 from Processor 1
RAID Controller	• S140 • HBA330+ • H330+ • H730P+ • H740P • H840P(External) • 12 Gbps SAS HBA (External)	• S140 • HBA330 mini • H330+ • H730P mini • H840 (External) • 12 Gbps SAS HBA (External) • HBA355e (External)
Backplane	• 12 x 3.5-inch or 2.5-inch SATA/SAS • 8 x 3.5-inch SATA/SAS • 2 x 3.5-inch rear SATA/SAS	• 2 x 12 x 3.5-inch SATA/SAS • 2 x 3.5-inch rear SATA/SAS
Embedded NIC	2 x 1 Gb LOM and optional LAN on riser card: • 2 x 1 Gb • 2 x 10 Gb • 2 x 10 Gb SFP+	2 x 1 Gb LOM and optional LAN on riser card: • 2 x 1 Gb • 2 x 10 Gb • 2 x 10 Gb SFP+ • 2 x 25 Gb SFP+
Power Supplies	• 450 W AC cable PSU • 495 W AC • 750 W AC • 1100 W AC • 750 W mixed mode HVDC • 1100 W mixed mode HVDC	• 750 W AC • 1100 W AC • 1600 W AC • 750 W mixed mode HVDC • 1100 W mixed mode HVDC
Remote Management	iDRAC9	iDRAC9

Table 3. Feature comparison (continued)

Feature	PowerEdge R540	PowerEdge R740xd2
TPM	TPM2.0 China, TPM1.2, TPM2.0	TPM2.0 China, TPM1.2, TPM2.0
Rear USB 3.0 port	Two rear ports	Two rear ports
iDRAC Direct front port	Micro-AB USB	Micro-AB USB
Cooling Fan	Up to 6 fan support	Up to 6 fan support
IDSDM Module	Internal Dual SD Module (IDSDM) and vFlash	Internal Dual SD Module (IDSDM) and vFlash
BOSS Module	M.2 SSD interface	M.2 SSD interface
PERC	PCIe PERC 9 or PERC 10	PCIe PERC 9, PERC 10, PERC 11