DELL Technologies

Specification Sheet

PowerEdge R570

Unprecedented Single-Socket Server with Optimized Power and Balanced Performance

Drive value and efficiencies in large datacenters

The Dell PowerEdge R570 is a powerful 2U, single-socket rack server designed to deliver high performance while maintaining exceptional energy efficiency. Its advanced design helps drive cost savings and improve data center productivity. With more cores in a single socket, the R570 delivers superior performance in a compact footprint, all while minimizing power consumption. This makes it perfect for workloads like virtualization, medium-density VMs, scale-out databases, VDI, and software-defined storage.

Purpose-built for enterprise and scalable infrastructures, the PowerEdge R570 seamlessly integrates into current environments. Designed for diverse performance and expandability needs, it is powered by an Intel® Xeon® 6 processor and offers advanced GPU support. This boosts computational capabilities and accelerates inferencing power, making it suitable for demanding business applications. The server is available in rear I/O hot aisle and front I/O cold aisle configurations. The front I/O cold aisle option enhances serviceability, reduces maintenance downtime, and improves overall system reliability. Additionally, Dell's Smart Power and Cooling Technology will enable your IT and datacenter requirements with air-cooled solution..

Cyber Resilient Architecture for Zero Trust IT environment & operations

Security is integrated into every phase of the PowerEdge lifecycle, including protected supply chain and factory-to-site integrity assurance. The Silicon-based root of trust anchors end-to-end boot resilience while Multi-Factor Authentication (MFA) and role-based access controls safeguard trusted operations.

Increase efficiency and accelerate operations with autonomous collaboration

The Dell OpenManage systems management portfolio tames the complexity of managing and securing IT infrastructure. Using Dell Technologies' intuitive end-to-end tools, IT can deliver a secure, integrated experience by reducing process and information silos in order to focus on growing the business. The Dell OpenManage portfolio is the key to your innovation engine, unlocking the tools and automation that help you scale, manage, and protect your technology environment.

Sustainability

From recycled materials in our products and packaging, to thoughtful, innovative options for energy efficiency, the PowerEdge portfolio is designed to make, deliver, and recycle products to help reduce the carbon footprint and lower your operation costs. We even make it easy to retire legacy systems responsibly with Dell Technologies.

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 R570

The Dell PowerEdge R570 offers power-packed performance in a purpose-built, cyber resilient, mainstream server.

Ideal for:

- Virtualization
- Scale-Out Database
- Medium VM Density or VDI
- Software-Defined Storage Node

Feature	Technical Specifications
Processor	• One Intel® Xeon® 6 E-core processor with up to 144 cores • One Intel® Xeon® 6 P-core processor with up to 86 cores with R1S option
Memory	• 16 DDR5 DIMM slots, speeds up to 6400 MT/s • One Intel® Xeon® 6 E-core processor - supports RDIMM 1 TB max • One Intel® Xeon® 6 P-core processor with up to 86 cores with R1S option - supports RDIMM 4 TB max • Supports registered ECC DDR5 DIMMs only Supports registered ECC DDR5 DIMMs only
Storage controllers	• Internal Controllers (RAID): PERC H365i DC-MHS, PERC H965i DC-MH, PERC H365i Adapter PERC H965i Adapter • Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1 DC-MHS), M.2 interposer with up to 2 x M.2 NVMe SSDs, USB • External Controllers: PERC H965e, HBA 465e
Drive Bays	Front bays: • Up to 12 x 3.5-inch SATA (HDD) RAID max 384 TB • Up to 8 x 2.5-inch NVMe RAID max 491.52 TB • Up to 8 x 2.5-inch NVMe max 491.52 TB • Up to 8 x 2.5-inch SATA max 30.72 TB • Up to 8 x 2.5-inch SATA/Universal max 491.52 TB • Up to 16 x 2.5-inch SATA RAID max 61.44 TB • Up to 24 x 2.5-inch SATA max 92.16 TB • Up to 8 x EDSFF E3.S (hot-aisle) Gen5 NVMe max 491.52 TB • Up to 8 x EDSFF E3.S (cold-aisle) Gen5 NVMe 491.52 TB • Up to 16 x EDSFF E3.S (cold-aisle) Gen5 NVMe max 983.04 TB • Up to 16 x EDSFF E3.S (hot-aisle) Gen5 NVMe max 983.04 TB • Up to 32 x EDSFF E3.S (hot-aisle) Gen5 NVMe max 1966.08 TB Rear bays: • Up to 4 x EDSFF E3.S Gen5 NVMe max 245.76 TB
Power Supplies	• 800 W Platinum/Titanium 100-240 VAC or 240 HVDC, hot swap redundant • 1100 W Platinum/Titanium 100-240 VAC or 240 HVDC, hot swap redundant • 1500 W Titanium 100-240 VAC or 240 HVDC, hot swap redundant • 1500 W 277 Vac and HVDC Titanium, hot swap redundant • 1400 W -48 VDC, hot swap redundant • 1800 W Titanium 100-240 VAC or 240 HVDC, hot swap redundant
Cooling Options	Air cooling
Fans	• Up to six hot plug fans
Dimensions	• Height – 86.8 mm (3.42 inches) • Width – 482.0 mm (18.98 inches) • Depth – 802.38 mm (31.59 inches) with bezel • Depth – 801.49 mm (31.55 inches) without bezel • Depth (Cold aisle/Front I/O Configuration) – 814.5 mm (32.06 inches) without bezel Note: Front I/O configuration will not have a bezel.
Form Factor	2U rack server
Embedded Management	• iDRAC • iDRAC Direct • iDRAC RESTful API with Redfish • RACADM CLI • iDRAC Service Module (iSM)
Bezel	Optional security bezel
Security	• 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 • TPM 2.0 FIPS, CC-TCG certified • Chassis Intrusion Detection
GPU Options	Up to 3 x 400W DW; Up to 4 x 75W SW
DPU Options	NVIDIA BlueField-3 2 x 200 GbE B3220
Ports	Front Ports • 1 x USB 2.0 Type-C (HOST/BMC Direct) • 1 x USB 2.0 Type-A (optional LCP - Secondary KVM) • 1 x Mini DisplayPort (optional LCP - Secondary KVM) • 1 x DB9 Serial (with front I/O configuration) • 1 x Dedicated BMC Ethernet port (with front I/O configuration) Rear Ports • 1 x Dedicated BMC Ethernet port • 2 x USB 3.1 Type-A • 1 x VGA Internal Port • 1 x USB 3.1 Type-A
PCIe	Up to six PCIe slots (x16 connector) • Slot 2: 1 x16 Gen5 Full Height, Half Length or 1 x16 Full Height, Full Length • Slot 3: 1 x16 Gen5 Full Height, Half Length • Slot 4: 1 x16 Gen5 Full Height, Half Length or 1 x16 Full Height, Full Length or 1 x16 OCP3.0 • Slot 6: 1 x4 Gen4 Boss (optional) • Slot 7: 1 x16 Gen5 Full Height, Half Length or 1 x16 Full Height, Full Length • Slot 9: 1 x16 Gen5 Full Height, Half Length • Slot 10: 1 x16 OCP3.0 • Slot 31: 1 x16 Gen5 Full Height, Half Length • Slot 34: 1 x16 OCP3.0 or 1 x4 Gen4 Boss (optional) • Slot 36: 1 x16 Gen5 Full Height, Half Length • Slot 38: 1 x16 OCP3.0
Gen5 PCIe slots	4

Feature	Technical Specifications
OCP Network options	• Up to two OCP NIC card 3.0: Two slots on the front or two slots on the rear (optional)
Embedded NIC	1 Gb dedicated BMC Ethernet port
Operating System and Hypervisors	• Canonical Ubuntu Server LTS • Microsoft Windows Server with Hyper-V • 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**.

Note: From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you with our OEMR platforms, while XL platforms provide extended transitions and stability for OEM Solutions customers. For more information, visit Dell.com -> Solutions -> OEM Solutions.

APEX on Demand

APEX Flex on Demand Acquire the technology you need to support your changing business with payments that scale to match actual usage. For more information, visit **www.delltechnologies.com/en-us/payment-solutions/flexible-consumption/flex-on-demand.htm**.

Note: This document provides a comprehensive list of product features. However, features marked with an asterisk (*) may not be available at launch but introduced in future updates. Please note that this document does not confirm the availability or release timeline of any feature. For the most accurate and up-to-date information on feature availability, please refer to the product configurator page on dell.com.

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