



PowerEdge R670 CSP Edition

Open platform, cloud scale servers purpose-built for Cloud Service Providers

Optimal Power Efficiencies and Cost-Effective Solutions

Introducing the innovative Dell PowerEdge R670 1U, dual-socket cloud scale server designed to deploy high-performance computing for optimal power efficiency and cost effectiveness in large and diverse environments. Designed for high-density and scale-out workloads effectively while significantly reducing energy consumption. This reduction in energy use may also lead to lower operational costs without compromising on performance.

Tailored to Fit Complex Datacenters

Tailored for digital and hosting service providers who offer a range of services, including high-density virtualization and cloud-native applications, scale-out database, software-defined storage, and GPU support. The Dell Poweredge R670 CSP Edition servers offer front I/O configurations which facilitate faster deployment and easy serviceability along with flexible system management options including Open Server Manager built on OpenBMC™.

Cyber Resilient Architecture for Zero Trust IT environment & operations

Security is embedded throughout the entire lifecycle of PowerEdge servers, from a secure supply chain to ensuring integrity from the factory to the site. A silicon-based root of trust forms the foundation for comprehensive boot security, while role-based access controls help maintain the integrity of operations. This integrated approach ensures trusted and secure server operations from deployment to decommissioning, laying a robust foundation for a Zero Trust environment.

Increase efficiency and accelerate operations with autonomous collaboration

The Dell OpenManage™ systems management portfolio delivers a secure, efficient, and comprehensive solution for PowerEdge servers. Dell PowerEdge R670 CSP Edition servers offer [Dell Open Server Manager built on OpenBMC™](#) to provide open ecosystem systems management.

Look to the future with 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 Services.

Rest easier with Dell Technologies Services

Maximize your PowerEdge Servers with [comprehensive services](#) ranging from [Consulting](#), to [ProDeploy](#) and [ProSupport suites](#), [Data Migration](#) and more – available across 170 locations and backed by our 60K+employees and partners.

Cloud Scale Servers offered exclusively through the [Hyperscale Next program](#) for select customers

PowerEdge R670

The Dell PowerEdge R670 is powered by Intel Xeon 6 Processors, DDR5 Memory, NVMe BOSS, Energy Star compliant and advanced cooling. Ideal for:

- High density virtualization and cloud-native
- Scale-out Database
- Software-Defined Storage

Feature	Technical Specifications	
Processor	Two Intel Xeon 6 Processors with up to 144 cores per processor	
Memory	<ul style="list-style-type: none"> 32 DDR5 DIMM slots, supports RDIMM 2 TB max, speeds up to 6400 MT/s Supports registered ECC DDR5 DIMMs only 	
Storage controllers	<ul style="list-style-type: none"> Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1 Flatbread): HWRAID 1, 2 x M.2 NVMe SSDs or USB 	
Drive Bays	Front bays: <ul style="list-style-type: none"> Up to 8 x EDSFF E3.S Gen5 NVMe (SSD) max 122.4 TB 	
Hot swap Power Supplies	<ul style="list-style-type: none"> 1500 W Titanium 100—240 VAC or 240 VDC 1100 W Platinum 100—240 VAC or 240 VDC 800 W Platinum 100—240 VAC or 240 VDC 	
Cooling Options	<ul style="list-style-type: none"> Air cooling 	
Fans	<ul style="list-style-type: none"> High performance Silver (HPR SLVR) fans Up to 4 sets (dual fan module) hot swappable fans 	
Dimensions and Weight	<ul style="list-style-type: none"> Height – 42.8 mm (1.69 inches) Width – 482 mm (18.98 inches) Weight – 20.42 kg (45.02 pounds) 	Depth (for rear I/O configuration) <ul style="list-style-type: none"> 817.94 mm (32.20 inches) with bezel 815.14 mm (32.09 inches) without bezel
		Depth (for front I/O configuration) <ul style="list-style-type: none"> 829.44 mm (32.66 inches) without bezel Note: The front I/O configuration does not support the bezel.
Form Factor	1U rack server	
Embedded Management	<ul style="list-style-type: none"> Open Server Manager (OSM) built on OpenBMC 	
Security	<ul style="list-style-type: none"> Cryptographically signed firmware Secure Boot 	<ul style="list-style-type: none"> Silicon Root of Trust TPM 2.0 FIPS, CC-TCG certified (optional)
Network options	OCP NIC card 3.0: 2 slots on the front or 2 slots on the rear	
GPU options	Up to 2 x 75 W SW	
Ports	Front Ports: <ul style="list-style-type: none"> 1 x USB 2.0 Type C port 1 x USB 2.0 Type A port (optional) 1 x Mini-DisplayPort (optional) 1 x DB9 Serial (with front I/O configuration) 1 x Dedicated BMC Ethernet port (with front I/O configuration) 	Rear Ports: <ul style="list-style-type: none"> 1 x Dedicated BMC Ethernet port 1 x VGA 2 x USB 3.1 Type A ports
	Internal Ports: <ul style="list-style-type: none"> 1 x USB 3.1 Type A port (optional) 	
PCIe	<ul style="list-style-type: none"> Up to 2 x16 Gen5 PCIe slots 	
Operating System and Hypervisors	<ul style="list-style-type: none"> Canonical Ubuntu Server LTS RedHat Enterprise Linux SUSE Linux Enterprise Server 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 -> Solutions -> OEM Solutions.	

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 <https://www.delltechnologies.com/en-us/payment-solutions/flexible-consumption/flex-on-demand.htm>.

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