# **D&LL**Technologies

**Specification Sheet** 



PowerEdge R670

Elevate your datacenter efficiencies with optimized power and balanced performance.

# **Boost Datacenter Efficiencies and Performance**

The Dell PowerEdge R670 is a 1U, dual-socket rack server designed for high performance computing with optimal power efficiency and balanced performance to boost your data center productivity. It balances advanced computing power with innovative design efficiencies maximizing rack utilization and minimizes energy consumption. Ideal for high density deployments, virtualization, all-flash SDS, online transaction processing, and cloud-native applications.

Purpose-built for enterprise and scalable infrastructures, the PowerEdge R670 offers standardization that easily integrates into existing environments, equipped with two Intel® Xeon® 6 processors with E-cores, it offers up to 1.69x better performance per watt than previous models, improving power efficiency and increasing rack density. The addition of GPU support further amplifies computational power, ensuring high performance with lower energy use.

These servers are available in rear I/O hot aisle and front I/O cold aisle configurations. The front I/O cold aisle improves serviceability, reduces maintenance time, and enhances efficiency, reliability, and uptime, supporting your sustainability goals by optimizing cooling and energy use. It also features Dell's Smart Power and Cooling Technology, optimized for air cooling to significantly reduce energy consumption, contributing to long-term operational savings.

# Cyber Resilient Architecture for Zero Trust IT environment & operations

Security is integrated into every phase of the PowerEdge lifecycle, including protected supply chain and factoryto-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 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 deployments,
- Virtualization,
- · All-flash SDS,
- Online transaction processing,
- Cloud-native applications

Feature	Technical Specifications	
Processor	Two Intel Xeon 6 Processors with up to 144 cores per processor	
Memory	<ul> <li>32 DDR5 DIMM slots, supports RDIMM 2 TB max, speeds up to 6400 MT/s</li> <li>Supports registered ECC DDR5 DIMMs only</li> </ul>	
Storage controllers	<ul> <li>Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1 DC-MHS): HWRAID 1, 2 x M.2 NVMe SSDs or M.2 Interposer board (DC-MHS): 2 x M.2 NVMe SSDs or USB</li> <li>Internal controllers: Front PERC H965i</li> </ul>	
Front Bays	<ul> <li>Up to 8 x EDSFF E3.S Gen5 NVMe (SSD) max 122.4 TB</li> <li>Up to 8 x 2.5 inch SAS/SATA/NVMe (SSD) max 245.6 TB</li> </ul>	
Hot swap Power Supplies	<ul> <li>1500 W Titanium 100—240 VAC or 240 VDC</li> <li>1100 W Platinum 100—240 VAC or 240 VDC</li> </ul>	• 800 W Platinum 100—240 VAC or 240 VDC
Cooling Options	Air cooling	
Fans	<ul> <li>High performance Silver (HPR SLVR) or Standard (STD) fans</li> <li>Up to 4 sets (dual fan module) hot swappable fans</li> </ul>	
Dimensions and Weight	<ul> <li>Height – 42.8 mm (1.69 inches)</li> <li>Width – 482 mm (18.98 inches)</li> <li>Weight – 20.42 kg (45.02 pounds)</li> </ul>	<ul> <li>Depth (for rear I/O configuration)</li> <li>816.92 mm (32.20 inches) with bezel</li> <li>815.14 mm (32.09 inches) without bezel</li> <li>Depth (for front I/O configuration)</li> <li>829.44 mm (32.66 inches) without bezel</li> <li>Note: The front I/O configuration does not support the bezel.</li> </ul>
Form Factor	1U rack server	
Embedded Management	iDRAC10     iDRAC Direct	iDRAC RESTful API with Redfish
Bezel	Optional security bezel	
Security	<ul> <li>Cryptographically signed firmware</li> <li>Data at Rest Encryption (SEDs with local or external key mgmt)</li> <li>Secure Boot</li> <li>Secured Component Verification (Hardware integrity check)</li> </ul>	<ul> <li>Secure Erase</li> <li>Silicon Root of Trust</li> <li>System Lockdown (requires iDRAC10 Enterprise or Datacenter)</li> <li>TPM 2.0 FIPS, CC-TCG certified</li> </ul>
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	<ul> <li>Front Ports:</li> <li>1 x USB 2.0 Type C port</li> <li>1 x USB 2.0 Type A port (optional)</li> <li>1 x Mini-DisplayPort (optional)</li> <li>1 x DB9 Serial (with front I/O configuration)</li> <li>1 x Dedicated ethernet port for iDRAC management</li> </ul> Internal Ports: <ul> <li>1 x USB 3.1 Type A port</li> </ul>	<ul> <li>Rear Ports:</li> <li>1 x Dedicated ethernet port for iDRAC management</li> <li>1 x VGA</li> <li>2 x USB 3.1 Type A ports</li> </ul>
PCle	Up to 2 x16 Gen5 PCIe slots	
Operating System and Hypervisors	Canonical Ubuntu Server LTS     RedHat Enterprise Linux	SUSE Linux Enterprise Server For specifications and interoperability details, see Dell.com/OSsuppor
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**

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