

**Specification Sheet** 



# PowerEdge R770

Drive efficiency in your datacenter through maximum performance with optimized power.

#### **Boost Datacenter Efficiencies and Performance**

The Dell PowerEdge R770 is a 2U, 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 workloads like virtualization, cloud-native applications, large-scale analytics, and distributed inferencing.

Purpose-built for enterprise and scalable infrastructures, the PowerEdge R770 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 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 R770

The Dell PowerEdge R770 is powered by Intel Xeon 6 Processors, DDR5 Memory, NVMe BOSS, Energy Star compliant, advanced cooling for cloud environments. Ideal for:

- · Workloads like virtualization,
- Cloud-native applications,
- Large-scale analytics,
- Distributed inferencing

Feature	Technical Specifications		
Processor	Two Intel Xeon 6 Processor with up to 144 cores per processor		
Memory	32 DDR5 DIMM slots, supports RDIMM 2 TB max, speeds up to 6400 MT/s		
	Supports registered ECC DDR5 DIMMs only		
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> </ul>		
	Internal controllers: Front PERC H965i		
Front Bays	Up to 8 x EDSFF E3.S Gen5 NVMe (SSD) max 122.4 TB	<ul> <li>Up to 8 x 2.5 inch NVMe (SSD) max 245.6 TB</li> </ul>	
	Up to 16 x EDSFF E3.S Gen5 NVMe (SSD) max 244.8 TB	Up to 16 x 2.5 inch SAS/SATA (SSD) max 61.44 TB	
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	High performance Silver (HPR SLVR) fans/High performance Gold (HPR GOLD) fans     Up to 6 hot swappable fans		
Dimensions and	Height – 86.8 mm (3.42 inches)	Depth (for rear I/O configuration)	
Weight	• Width – 482 mm (18.97 inches)	802.40 mm (31.59 inches) with bezel	
	<ul> <li>Weight – 28.53 kg (62.89 pound)</li> </ul>	<ul> <li>801.51 mm (31.56 inches) without bezel</li> </ul>	
		Depth (for front I/O configuration)  • 814.52 mm (32.07 inches) without bezel	
		Note: The front I/O configuration does not support the bezel.	
Form Factor	2U rack server		
Embedded	• iDRAC10	iDRAC RESTful API with Redfish	
Management	iDRAC Direct		
Bezel	Optional security bezel		
Security	Cryptographically signed firmware	Secure Erase	
	Data at Rest Encryption (SEDs with local or external key mgmt)	Silicon Root of Trust	
	Secure Boot	System Lockdown (requires iDRAC10 Enterprise or Datacenter)	
	Secured Component Verification (Hardware integrity check)	TPM 2.0 FIPS, CC-TCG certified	
Network options	OCP NIC card 3.0 : 2 slots on the front or 2 slots on the rear		
GPU options	Up to 4 x 75 W SW	1	1
Ports	Front Ports:	Rear Ports:	Internal Ports:
	1 x USB 2.0 Type C port	1 x Dedicated ethernet port for	1 x USB 3.1 Type A port
	1 x USB 2.0 Type A port (optional)	iDRAC management  • 1 x VGA	
	1 x Mini-DisplayPort (optional)	• 1 x VGA • 2 x USB 3.1 Type A ports	
	1 x DB9 Serial (with front I/O configuration)	2 X OSB 3.1 Type A ports	
DOL	1 x Dedicated ethernet port for iDRAC management    United April 2015   DCI   Policy   DCI		
PCIe	Up to 4 x16 Gen5 PCle slots	CUCT Linux Enterprise Conter	
Operating System and Hypervisors	Canonical Ubuntu Server LTS  Pad LL & Fatarrille & Lieuw	SUSE Linux Enterprise Server     For specifications and interoperability details, see Dell.com/     OSsupport.	
J.	Red Hat Enterprise Linux		
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.		
avallable	VISIL DEII. DOI -> GOIDLIOTS -> OLIVI GUIDLIOTS.		

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