

# Dell PowerEdge Rack Servers

**DELL** Technologies

## Quick Reference Guide

Dell PowerEdge rack servers help you build a modern infrastructure that minimizes IT challenges and drives business success. Our Quick Reference Guide (QRG) includes a condensed view of our entire rack server portfolio.

Rack Server	R760	R660	R7625	R6625	R7615	R6615	R660xs	R760xs	HS5610***	HS5620***
										
Key attributes	Provides performance and versatility for demanding applications	Provides performance and versatility for demanding applications	Breakthrough performance	Breakthrough performance	Powerful performance and scalability	Peak performance and excellent TCO	Right-sized for the most popular IT applications	Right-sized for the most popular IT applications	Open ecosystem optimized for compute workloads	Open ecosystem optimized for storage dense workloads
Target workloads	Mixed Workload Standardization Database and Analytics Virtual Desktop Infrastructure	High Density Virtualization, Dense Database Analytics, Mixed Workload Standardization	High Performance Computing (HPC), Virtual Desktop Infrastructure (VDI), Virtualization	High Performance Computing (HPC), Virtual Desktop Infrastructure (VDI), Virtualization	Software-Defined Storage (SDS), Virtualization, Data Analytics	Virtualization, Hyper-Converged Infrastructure (HCI), Network Functions Virtualization (NFV)	Virtualization, Cloud, Scale-Out Database, High Performance Compute (HPC)	Virtualization, Software-Defined Storage, Medium density VM or VDI	Virtualization, Scale-out database, Software-Defined Storage Node	Virtualization, Medium VM Density or VDI, Software-Defined Storage Node
Type of processor	2 x 4th Generation Intel® Xeon® Scalable processors; up to 56 cores per processor or 2 x 5th Generation Intel® Xeon® Scalable processors; up to 64 cores per processor	2 x AMD EPYC™ 4th Generation 9004 Series Processor, up to 128 cores per processor	1 x AMD EPYC™ 4th Generation 9004 series processor; up to 128 cores		2 x 5th generation Intel® Xeon® Scalable processors with up to 28 cores or 2 x 4th Generation Intel Xeon Scalable processors with up to 32 cores per processor		2 x 5th generation Intel® Xeon® Scalable processors with up to 32 cores or 2 x 4th Generation Intel Xeon Scalable processors with up to 32 cores per processor			
DDR5 DIMM slots (max capacity)	32 (8 TB)	24 (6 TB)		12 (3 TB)			16 (1.5 TB)	16 (1.5 TB)	16 (2 TB)	16 (2 TB)
Disk drives up to:	12 x 3.5" 8 x 2.5" 16 x 2.5" 24 x 2.5" 16 x E3.S 2 x 2.5" (rear) 4 x 2.5" (rear) 4 x E3.S (rear)	8 x 2.5" 10 x 2.5" 2 x 2.5" (rear) 10 x 2.5" 16 x 2.5" 14 x E3.S 14 x E3.S 2 x 2.5" (rear) 4 x 2.5" (rear) 2 x E3.S (rear)	8 x 3.5" 12 x 3.5" 8 x 2.5" 8 x 2.5" 10 x 2.5" 14 x E3.S 24 x 2.5" 2 x 2.5" (rear) 2 x 2.5" (rear) 2 x E3.S (rear)	4 x 3.5" 12 x 3.5" 8 x 2.5" 8 x 2.5" 10 x 2.5" 14 x E3.S 16 x E3.S 2 x 2.5" (rear) 2 x 2.5" (rear) 4 x E3.S (rear)	8 x 3.5" 8 x 2.5" 10 x 2.5" 14 x E3.S 16 x E3.S 24 x 2.5" 2 x 2.5" (rear) 2 x 2.5" (rear) 4 x E3.S (rear)	4 x 3.5" 8 x 2.5" 10 x 2.5" 14 x E3.S 16 x E3.S 24 x 2.5" 2 x 2.5" (rear)	12 x 3.5" 8 x 3.5" 8 x 2.5" 8 x 2.5" 16 x 2.5" + 8 x NVMe 16 x 2.5" (rear)	4 x 3.5" 8 x 2.5" 6 x NVMe 10 x 2.5" 16 x 2.5" + 8 x NVMe 2 x 2.5" (rear)	12 x 3.5" 8 x 3.5" 8 x 2.5" 6 x NVMe 10 x 2.5" 16 x 2.5" + 8 x NVMe 2 x 2.5" (rear)	12 x 3.5" 8 x 3.5" 8 x 2.5" 6 x NVMe 10 x 2.5" 16 x 2.5" + 8 x NVMe 2 x 2.5" (rear)
NVMe drives up to:	24	10	24	10	24	10	10	8	10	8
Gen5 PCIe slots up to:	4	2	4	2	4	2	2	2	2	2
Gen4 PCIe slots up to:	8	3	8	3	4	3	3	4	3	4
Accelerator support up to:	2 x 350 W DW or 6 x 75 W SW	3 x 75 W SW	2 x 300 W DW or 6 x 75 W SW	3 x 75 W SW	3 x 300 W DW or 6 x 75 W SW	3 x 75 W SW	N/A	2 x 75 W SW	N/A	2 x 75 W SW
Rack height (U)	2	1	2	1	2	1	1	2	1	2
Integrated security	TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ, Cryptographically Signed Firmware, Chassis Intrusion Alert, Secure Boot being standard security, Silicon Root of Trust, System Lockdown (requires iDRAC9 Enterprise or Datacenter), Data at Rest Encryption (SEDs with local or external key mgmt) Secured Component Verification (Hardware integrity check) and System Erase on all racks.		TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ, Cryptographically Signed Firmware, Secure Boot, Secure Erase, Silicon Root of Trust, System Lockdown (requires iDRAC9 Enterprise or Datacenter), AMD Secure Memory Encryption (SME) and AMD Secure Encrypted Virtualization (SEV)		TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ, Cryptographically Signed Firmware, Chassis Intrusion Alert, Secure Boot being standard security, Silicon Root of Trust, System Lockdown (requires iDRAC9 Enterprise or Datacenter), Data at Rest Encryption (SEDs with local or external key mgmt) Secured Component Verification (Hardware integrity check) and System Erase on all racks.					

\*\*\* HS560 and HS5620 are offered exclusively through the Hyperscale Next program for select customers

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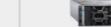
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Rack Server	R940	R940xa	R840	R740xd	R740	R740xd2	R640	R540	R440	R340	R240
											
Key attributes	Powerful performance	Extreme acceleration	Turbocharge data analytics	Scalable storage performance	Optimal application performance	Enterprise content server	Performance and density	Balanced and adaptable	Scale-out computing	Accelerate business growth	Compute made simple
Target workloads	In-memory databases	GPU database acceleration and machine learning	Data-intensive workloads, HFT, and dense virtualization	SDS, service providers, and big data servers	VDI and cloud workloads	Media streaming and SDS	Dense scale-out data center computing and storage	Mail messaging and virtualization	HPC, web tech, and scale-out infrastructure	ROBO productivity and data-intensive applications	Small business and service provider workloads
Type of processor	4 x 2 <sup>nd</sup> Generation Intel® Xeon® Scalable processors				2 x 2 <sup>nd</sup> Generation Intel® Xeon® Scalable processors						1 x Intel Xeon E-2200, Intel Core i3®, Intel Pentium®, or Intel Celeron® processor
DDR4 DIMM slots (max capacity)	48 (15.36 TB)			24 (7.68 TB)		16 (1 TB)	24 (7.68 TB)	16 (1 TB)			4 (64 GB)
Disk drives up to:	24 x 2.5"	32 x 2.5"	26 x 2.5"	18 x 3.5" 32 x 2.5"	8 x 3.5" 16 x 2.5"	26 x 3.5" 16 x 3.5" + 10 x 2.5" <sup>2</sup>	4 x 3.5" 12 x 2.5"	14 x 3.5"	4 x 3.5" 10 x 2.5"	4 x 3.5" 8 x 2.5"	4 x 3.5" 4 x 2.5" <sup>2</sup>
NVMe drives up to:	12	4	24			N/A	10	N/A	4		N/A
Gen4 PCIe slots up to:						N/A					
Gen3 PCIe slots up to:	13	12	6	8		5	3	5	2		2
Accelerator support up to:	N/A	4 x DW GPUs or 4 x DW or 8 x SW FPGAs	2 x DW GPUs or 2 x SW or DW FPGAs	3 x DW or 6 x SW GPUs or 3 x DW or 4 x SW FPGAs		N/A	1 x SW GPU or 1 x SW FPGA				N/A
Rack height (U)	3	4	2				1	2	1		1
Integrated security	TPM 1.2/2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ, Cryptographically Signed Firmware, Chassis Intrusion Alert, and Secure Boot being standard security on all racks. Integrated security features such as Silicon Root of Trust, System Lockdown (requires iDRAC9 Enterprise or Datacenter), and System Erase on all racks										

<sup>1</sup> Not all features are available on all platforms.

<sup>2</sup> Drives use hybrid carrier to fit in 3.5" drive bay. (For the R740xd2 - a hybrid configuration is available with up to 10 2.5" SSDs)

## 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. Silicon-based root of trust anchors end-to-end boot resilience while Multi-Factor Authentication (MFA) and role-based access controls ensure trusted operations.

## 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

## Increase efficiency and accelerate operations with an autonomous infrastructure

The Dell OpenManage™ systems management portfolio delivers a secure, efficient, and comprehensive solution for PowerEdge servers. Simplify, automate and centralize one-to-many management with the OpenManage Enterprise console and iDRAC. With OpenManage Enterprise with Power Manager, you can genuinely benefit from datacenter level cooling efficiency by monitoring power usage. When you can manage your server thermals you will reduce energy waste, reduce wear, tear on your equipment, and extend the life of your investment.

## 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.

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