

Dell PowerEdge Rack Servers



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	R470	R570	R670	R770	R6715	R7715	R6725	R7725	R7725xd
									
Key attributes	Purpose-built to maximize efficiency and affordability with optimized single-socket servers, delivering power-packed performance for cloud scale web and app microservices, data services, virtualization, and scale-out database.	Purpose-built to maximize efficiency and affordability with optimized single-socket servers, delivering power-packed performance for cloud scale web and app microservices, data services, virtualization, and scale-out database.	Open ecosystem optimized for compute workloads and designed to optimize power and balance performance for high-density deployments, cloud-native applications, and all-flash SDS.	Open ecosystem optimized for compute workloads and provides maximum performance with optimized power for virtualization and microservices, cloud-native applications, and large-scale analytics.	Right-size memory and storage density	Enhanced performance and value	Breakthrough performance density	Breakthrough performance that scales	Designed to support Storage Dense workloads
Target workloads	Virtualization, Scale-out database, Big Data and Analytics, High Performance Compute, and Edge Compute	Medium-density Virtualization, Scale-out Databases, Big Data and Analytics, VDI, High Performance Compute, and Software-defined Storage.	Virtualization, Cloud-native applications, All-flash SDS, Hyperscale workloads, and Scale out Databases	Virtualization, Artificial Intelligence Inferencing, Cloud-native applications, Hyperscale workloads, and Scale out Databases	Data analytics, Dense virtualization, and Software defined storage	Data analytics, Dense virtualization, and Software defined storage	High Performance Computing (HPC), Virtual Desktop Infrastructure (VDI), and Virtualization	High Performance Computing (HPC), Virtual Desktop Infrastructure (VDI), and Virtualization	Object Storage
Type of processor	1 x Intel® Xeon® 6 E-core processor with up to 144 cores or 1 x Intel® Xeon® 6 P-core processor with up to 86 cores with R1S option	2 x Intel® Xeon® 6 E-core processor with up to 144 cores or 2 x Intel® Xeon® 6 P-core processor with up to 86 cores	2 x Intel® Xeon® 6 E-core processor with up to 144 cores or 2 x Intel® Xeon® 6 P-core processor with up to 86 cores	1 x AMD EPYC™ 5th Generation 9005 Series Processor, up to 160 cores	2 x AMD EPYC™ 5th Generation 9005 Series Processor, up to 192 cores	2 x AMD EPYC™ 5th Generation 9005 Series Processor, up to 192 cores	2 x AMD EPYC™ 5th Generation 9005 Series Processor, up to 192* cores	2 x AMD EPYC™ 5th Generation 9005 Series Processor, up to 192* cores	
DDR5 DIMM slots (max capacity)	16 (4 TB*)	16 (4 TB*)	32 (8 TB)	24 (6 TB*)	24 (6 TB)	24 (6 TB*)	24 (6 TB)	24 (6 TB)	24 (3 TB*)
Disk drives up to:	4 x 3.5" 4 x Universal 8 x 2.5" 10 x 2.5" 8 x E3.S / 16 x E3.S 2 x E3.S (Rear)	8 x 2.5" 12 x 3.5" 16 x 2.5" 24 x 2.5" 8 x E3.S / 16 x E3.S / 32 x E3.S 4 x E3.S (Rear)	8 x 2.5" 10 x 2.5" 8 x E3.S / 16 x E3.S / 20 x E3.S 2 x E3.S (Rear)	8 x 2.5" 16 x 2.5" 24 x 2.5" 8 x E3.S / 16 x E3.S (FIO Config) 32 x E3.S / 40 x E3.S 4 x E3.S (Rear)	4 x 3.5" 4 x Universal 8 x 2.5" / U.2 10 x 2.5" 16 x E3.S / 20 x E3.S 2 x E3.S (Rear)	2 x U.2 8 x 2.5" / U.2 12 x 3.5" 16 x 2.5" 24 x 2.5" 8 x E3.S / 16 x E3.S / 32 x E3.S / 40 x E3.S	4 x 3.5" 4 x U.2 8 x 2.5" 10 x 2.5" 8 x E3.S / 16 x E3.S / 20 x E3.S 2 x E3.S (Rear)	8 x 2.5" / U.2 12 x 3.5" 16 x 2.5" 24 x 2.5" 8 x E3.S / 16 x E3.S / 32 x E3.S / 40 x E3.S	8 x 2.5" U.2 Gen5
NVMe drives up to:	16	32	22	44	22	40	22	40	24
Gen5 PCIe slots up to:	4	4	3	8	3	8	3	8	5*
Gen4 PCIe slots up to:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Accelerator support up to:	4 x 75 W SW	3 x 400 W DW or 4 x 75 W SW	3 x 75 W SW	2 x 350 W DW or 6 x 75 W SW*	3 x 75 W SW	3 x 450 W DW* or 6 x 75 W SW	3 x 75 W SW	2 x 250/350/400/450 W DW* or 6 x 75 W SW	N/A
Rack height (U)	1	2	1	2	1	2	1	2	2
Integrated security	Cryptographically signed firmware, Data at Rest Encryption (SEDs with local or external key mgmt), Secure Boot, Secured Component Verification (Hardware integrity check), Silicon Root of Trust, Secure Erase, System Lockdown (requires iDRAC10 Enterprise or Datacenter), TPM 2.0 FIPS, CC-TCG certified, Chassis Intrusion Detection				Cryptographically Signed Firmware, Data at Rest Encryption (SED 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, AMD Secure Memory Encryption (SME), AMD Secure Encrypted Virtualization (SEV), Chassis Intrusion Detection				

Note: * Expected to be available during the future releases. Planned Offerings are subject to change and may not be released as originally designed.

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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 (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" 10 x 2.5" 14 x E3.S 16 x E3.S 2 x 2.5" (rear) 2 x E3.S (rear)	8 x 3.5" 12 x 3.5" 8 x 2.5" 16 x 2.5" 24 x 2.5" 2 x 2.5" (rear) 4 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 2 x 2.5" (rear) 2 x E3.S (rear)	8 x 3.5" 12 x 3.5" 8 x 2.5" 16 x 2.5" 24 x 2.5" 2 x 2.5" (rear) 4 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 2 x 2.5" (rear) 2 x E3.S (rear)	4 x 3.5" 8 x 2.5" 10 x 2.5" 2 x 2.5" (rear)	12 x 3.5" 8 x 3.5" 8 x 2.5" 16 x 2.5" + 8 x NVMe 2 x 2.5" (rear)	4 x 3.5" 8 x 2.5" 6 x NVMe 10 x 2.5" 2 x 2.5" (rear)	12 x 3.5" 8 x 3.5" 8 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.			

Note: * Expected to be available in the first half of 2025. Planned Offerings are subject to change and may not be released as originally designed.

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

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Rack Server	R960	R860	R760xa	R760xd2	R360	R260
						
Key attributes	Extreme acceleration for business continuity and scale out	Power business-critical, core workloads with high-density compute	High performance, scalable server for intensive GPU applications	Dense storage, faster retrieval and scalability	Streamlined productivity, high-enterprise GPU, and powerful compute to address common business applications.	Short-depth rack server with filter bezel for Near-Edge customers featuring the latest Intel Xeon-E 2400 series processors, DDR5 memory, NVMe BOSS, and Energy Star 4.0 PSU
Target workloads	Large in-memory databases, Data analytics, AI and virtualization, Virtual Desktop Infrastructure (VDI)	AI/ML/DL training and inferencing Digital Twins, render graphics Virtualization and VDI graphics	File and object storage, Video capturing & surveillance, Video streaming	Collaboration and Sharing, Mail and Messaging, Database	Collaboration and Sharing, Mail and Messaging, Near-Edge Applications	
Type of processor	4 x 4th Generation Intel® Xeon® Scalable processors; up to 60 cores per processor and with optional Intel® QuickAssist Technology	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 4th Generation Intel® Xeon® Scalable processors; up to 32 cores per processor or 2 x 5th Generation Intel® Xeon® Scalable processors; up to 28 cores per processor	1 x Intel® Xeon® E-2400 series processor with up to 8 cores, or 1 x Intel® Pentium processor with 2 cores, or 1 x Intel® Xeon® 6300 series processor with up to 8 cores	1 x Intel® Xeon® E-2400 series processor with up to 8 cores, or 1 x Intel® Pentium processor with 2 cores, or 1 x Intel® Xeon® 6300 series processor with up to 8 cores	
DDR5 DIMM slots (max capacity)	64 (16 TB)	32 (8 TB)	16 (1.5TB)	4 (128 GB)	4 (128 GB)	
Disk drives up to:	8 x 2.5" 16 x 2.5" 24 x 2.5" 32 x 2.5" 16 x E3.S 8 x 2.5" + 16 x E3.S	8 x 2.5" 16 x 2.5" 24 x 2.5" 8 x E3.S 2 x 2.5" (rear)	6 x 2.5" 8 x 2.5" 6 x E3.S	12 x 3.5" (Front bay) + 12 x 3.5" (Mid bay) 2 x 2.5" or 4 x 2.5" or 4 x 3.5" or 4 x E3.S (rear)	4 x 3.5" 8 x 2.5"	2 x 3.5" 6 x 2.5"
NVMe drives up to:	24	24	8	4	N/A	N/A
Gen5 PCIe slots up to:	12	8	12	N/A	N/A	N/A
Gen4 PCIe slots up to:	N/A	4	N/A	5	2	2
Accelerator support up to:	4 x 400 W DW	N/A	4 x 400 W DW or 12 x 75 W SW	2 x 75 W SW , 1 x 75 W SW + 1 x 150 W SW or 1 x 180 W DW	1 x 60 W SW	N/A
Rack height (U)	4	2	2	2	1	1
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.					

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Rack Server	XE7745	XE7740	XE9680L	XE9685L
				
Key attributes	Purpose-built for AI inferencing, model fine-tuning, and high-performance computing, the internal GPU slots are paired with eight additional Gen 5.0 PCIe slots for network connectivity, creating dense, flexible configurations with twice the DW PCIe GPU capacity compared to the Dell PowerEdge R760xa	Purpose-built for AI inferencing, model fine-tuning, and high-performance computing, the internal GPU slots are paired with eight additional Gen 5.0 PCIe slots for network connectivity, creating dense, flexible configurations with twice the DW PCIe GPU capacity compared to the Dell PowerEdge R760xa	Unmatched AI training and HPC performance with direct liquid cooled CPUs and GPUs in a 4U form factor	Unmatched AI training and HPC performance with direct liquid cooled CPUs and GPUs in a 4U form factor
Target workloads	Gen AI fine-tuning, Gen AI inferencing, Natural language processing, digital twins, and agentic AI	Gen AI fine-tuning, Gen AI inferencing, Natural language processing, digital twins, and agentic AI	AI training, LLM training, Fine-Tuning, and large-scale LLM inferencing	AI training, LLM training, Fine-Tuning, and large-scale LLM inferencing
Type of processor	2 x 5th Generation AMD EPYC™ 9005 Series processors; up to 192 cores per processor	2 x 5th Generation Intel® Xeon® Scalable processors; up to 56 cores per processor	2 x 5th Generation Intel® Xeon® Scalable processors; up to 64 cores per processor	2 x 5th Generation AMD EPYC™ 9005 Series processors; up to 192 cores per processor
DDR5 DIMM slots (max capacity)	24 (3 TB)	24 (3 TB)	32 (4 TB)	24 (3 TB)
Disk drives up to:	8 x E3.S	8 x E3.S	8 x 2.5"	8 x 2.5"
NVMe drives up to:	NA	N/A	8	8
Gen5 PCIe slots up to:	8	8	12	12
Gen4 PCIe slots up to:	N/A	N/A	N/A	N/A
Accelerator support up to:	8 x 600 W SW or 16 x 75 W SW	8 x 600 W SW or 16 x 75 W SW	8 x NVIDIA HGX B200 180GB 1000W SXM6 GPUs, fully interconnected with NVIDIA NVLink technology	8 x NVIDIA HGX B200 180GB 1000W SXM6 GPUs, fully interconnected with NVIDIA NVLink technology
Rack height (U)	4	4	4	4
Integrated Rack	N/A	N/A	IR5000 required	IR5000 required
Integrated 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 (requires iDRAC10 Enterprise or Datacenter)*, TPM 2.0 FIPS, CC-TCG certified, AMD Secure Memory Encryption (SME), AMD Secure Encrypted Virtualization (SEV)	Chassis Intrusion Detection, 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 (requires iDRAC10 Enterprise or Datacenter), TPM 2.0 FIPS, CC-TCG certified	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 (requires iDRAC9 Enterprise or Datacenter), TPM 2.0 FIPS, CC-TCG certified	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 (requires iDRAC9 Enterprise or Datacenter), TPM 2.0 FIPS, CC-TCG certified

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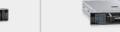
Rack Server	XE9680	XE9640	XE8640	XR7620	XR5610
					
Key attributes	No-compromise accelerated AI training performance, Flexibility to choose H100 GPUs, 6U 2-socket with support up to 35C ambient	Density optimized AI and HPC performance with direct liquid cooled CPUs and GPUs in a 2U form factor	Faster ML/DL training and HPC performance, 4U 2-socket server, up to 35C ambient, standard rack depth	Edge-optimized high-performance, high-capacity short-depth 2U 2-socket server	High-performance, short depth, rugged, reverse mounting, filtered bezel, -5C to 55C operating temperatures
Target workloads	Large model training, natural language processing, recommendation engines, conversational AI, translation, drug discovery	HPC Modeling and Simulation, seismic analysis, computational fluid dynamics, Oil & Gas, AI/ML training, object detection, image classification	HPC Modeling and Simulation, seismic analysis, computational fluid dynamics, Oil & Gas, AI/ML training, object detection, image classification	Industrial automation, video analytics, point of sale analytics, AI inferencing, edge asset data aggregation and analytics	vRAN, D-RAN, O-RAN, wIndustrial automation, video analytics, point of sale analytics, AI inferencing, edge asset data aggregation and analytics
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 56 cores per 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 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 5th Generation Intel® Xeon® Scalable processors; up to 16 cores per processor or 2 x 4th Generation Intel® Xeon® Scalable processors; up to 32 cores per processor	1 x 5th Generation Intel® Xeon® Scalable processors; up to 16 cores per processor or 1 x 4th Generation Intel® Xeon® Scalable processors; up to 32 cores per processor
DDR5 DIMM slots (max capacity)	32 (4 TB)	<ul style="list-style-type: none"> 16 (1 TB) Intel GPU 8, 16, 32 (2 TB) NVIDIA GPU 	32 (4 TB)	16 (1 TB)	8 (1 TB)
Disk drives up to:	8 x 2.5" 16 x E3.S	4 x 2.5"	8 x 2.5"	4 x 2.5" 8 x E3.S	4 x 2.5"
NVMe drives up to:	8	4	8	4	4
Gen5 PCIe slots up to:	10	4	4	2	2
Gen4 PCIe slots up to:	N/A	N/A	N/A	5	N/A
Accelerator support up to:	8 NVIDIA HGX H100 80 GB 700 W SXM5 GPUs or NVIDIA HGX H800 8-GPU SXM 80GB 700W GPUs, NVIDIA HGX H200 8-GPU SXM 141GB 700W GPUs, NVIDIA HGX H20 8-GPU SXM 96GB 500W GPUs or 8 AMD Instinct MI300X 192GB 750W OAM GPU or 8 Intel Gaudi3 128GB 900W OAM GPU	4 NVIDIA H100 SXM 7000W NVLINK GPUs or Intel Data Center Max GPU Series 1550 OAM 600W Xelink GPUs	4 NVIDIA HGX H100 80 GB 700 W SXM5 GPUs, fully interconnected with NVIDIA NVLink technology	4 x 150 W SW or 2 x 300 W DW	2 x 75 W SW
Rack height (U)	6	2	4	2	1
Integrated Rack	Optional: IR5000	N/A	N/A	N/A	N/A
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.				

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Rack Server	R750	R750xa	R650	R7525	R6525	R7515	R6515	R750xs	R650xs	R450	R550	XR11	XR12	R350	R250
															
Key attributes	Outstanding performance for the most demanding workloads	Highly intensive GPU workloads	High scalability, optimized workload performance	Powerful performance and flexibility	Dense virtualization	Powerful performance and scalability	High density compute	Purpose-built 2U server for growing scale-out solutions	Purpose-built, full performance 1U server for dense, fast growing scale-out solutions	Value and density-focused, built for general purpose IT	Versatile, value-optimized, virtualization-ready, built for general purpose IT	Edge-centric, short depth and rugged with reverse mounting options	Edge-centric, short depth and rugged with reverse mounting options	Powerful performance in 1U server for productivity and data intensive applications	Powerful compute for common business applications and streamlines productivity
Target workloads	Database and analytics, HPC, traditional corporate IT, VDI, AI, or ML environments	AI, ML or DL training or inferring, HPC, and virtualization environments	Mixed workload standardization, database and analytics, HFT, traditional corporate IT, VDI, HPC, AI, or ML environments	All flash SDS, VDI, and data analytics	HPC, Dense VDI, and Virtualization	SDS, Virtualization, and Data Analytics	Virtualization, HCI and NFV	Virtualization, medium VM density or VDI, and scale-out database workloads	Virtualization, cloud, scale-out database and highperformance compute workloads	Small IT infrastructure, light VM, small business specific workloads	Small IT infrastructure, light VM density, small business specific workloads	Telco/5G (MEC, CDN, vRAN), Military, Retail (Analytics - video surveillance/ POS/IOT aggregation)	Telco/5G (MEC, CDN, vRAN), Military, Retail (Analytics - video surveillance/ POS/IOT aggregation)	Small mid-sized businesses, remote office/branch office, collaboration and sharing, data analytics and virtualization workloads	Small mid-sized businesses, remote office/branch office, collaboration and sharing, mail/messaging and file/print workloads
Type of processor	2 x 3 rd Generation Intel® Xeon® Scalable processors; up to 40 cores per processor			2 x 2 nd or 3 rd Generation AMD EPYC™ processors; up to 64 cores per processor		1 x 2 nd or 3 rd Generation AMD EPYC™ processor; up to 64 cores per processor		2 x 3 rd Generation Intel® Xeon® Scalable processors; up to 32 cores per processor		2 x 3 rd Generation Intel® Xeon® Scalable processors; up to 24 cores per processor		1 x 3 rd Generation Intel® Xeon® Scalable processors; up to 36 cores per processor		1 x Intel Xeon E-2300 series processors with up to 8 cores or 1 x Intel Pentium processor with up to 2 cores	
DDR4 DIMM slots (max capacity)	32 (8 TB)		32 (4 TB)			16 (2 TB)		16 (1 TB)				8 (1 TB)		4 (128 GB)	
Disk drives up to:	12 x 3.5" 8 x 2.5" 16 x 2.5" 24 x 2.5" 2 x 2.5" or 4 x 2.5" (rear)	6 x 2.5" 8 x 2.5"	4 x 3.5" 8 x 2.5" 10 x 2.5" 2 x 2.5" (rear)	12 x 3.5" 26 x 2.5"	4 x 3.5" 12 x 2.5"	12 x 3.5" 24 x 2.5"	4 x 3.5" 8 x 2.5"	8 x 3.5" 12 x 3.5" 8 x 2.5" 16 x 2.5 + 8 x 2.5"	4 x 3.5" 8 x 2.5" 10 x 2.5" 2 x 2.5" (rear)	4 x 3.5" 8 x 2.5"	8 x 3.5" 8 x 2.5" 16 x 2.5"	4 x 2.5"	6 x 2.5"	4 x 3.5" 8 x 2.5"	4 x 3.5" 4 x 3.5" (cabled) 2 x 3.5" (cabled)
NVMe drives up to:	24	8	12	24	12	24	10	8	10	N/A		4	6	N/A	
Gen4 PCIe slots up to:	8	8	3	8	3	2	1	5	3	2	3	3	5	3	2
Gen3 PCIe slots up to:	N/A					2	1	1	N/A		1	N/A			
Accelerator support up to:	2 x 300 W DW or 4 x 150 W SW or 6 x 75 W SW	4 x 150 W SW or 4 x 300 W DW 2 x 75 W SW	3 x 75 W SW	3 x 300 W DW or 6 x 75 W SW	3 x SW	4 x SW; 1 x DW; 1 x FPGA	1 x SW	N/A				2 x 75 W SW	2 x 75 W or 150 W SW 2 x 300 W DW	N/A	
Rack height (U)	2	2	1	2	1	2	1	2	1	1	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														

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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 nd Generation Intel® Xeon® Scalable processors			2 x 2 nd 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" ²	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" ²
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	N/A	
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										

¹ Not all features are available on all platforms.

² 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. 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.

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.

Increase efficiency and accelerate operations with an autonomous infrastructure

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.

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