



Dell™ PowerEdge™ R420xr

Ruggedized Server

The PowerEdge R420xr is an enterprise-class, short-depth, 1U 2-socket rack rugged server built for military, telecom and other uses. R420xr is designed for harsh environments that are constrained by size, weight and power. Along with its small footprint, R420xr boasts powerful performance and scalability, hot-swappable power supplies and industry-leading management.

Manageable and expandable

- Integrated Dell Remote Access Controller (iDRAC) Express and enterprise remote management and lifecycle controller support
- Up to 2x16 Gen3 PCIe expandability
- Increased capacity with up to four front-accessible 2.5" hard drives
- Optional Dell PERC H810 RAID controller card

Versatile

- 20" rack depth and light weight to fit solution constraints
- Advanced manageability and scalability
- Reduced power and cooling requirements

Durable and reliable

- MIL-STD-810G and MIL-S-901D compliant
- Resistant to shock and vibration
- Continuous operation in temperatures up to 45°C
- Optional filtered bezel for improved dust ingress protection with machine-washable filters
- Optional rugged sliding rails for sturdy installation into standard 4 post racks or transit cases

World class experience

Let Dell's global fulfillment and service and the award winning remote management provide you with peace of mind for operating in even demanding environments.

- Global fulfillment and Service capabilities
- Award winning Manageability
- First Class Quality

Service and support

Bring your game-changing innovations to market fast with our services, including design, manufacture, fulfillment and global support. We'll help you refine a product or design new products with the right services, so you can focus on your IP. Choose from services that can help you:

- Conduct applications testing on our hardware.
- Integrate hardware, image, applications, peripheral and documents as your systems are built.
- Consolidate, stage, deliver and support your orders globally.
- Provide your customers with the support they need, anything, anywhere with more than 30,000 Dell employees in tech support, parts and field services in more than 100 countries.

PowerEdge R420xr

- MIL-STD 810G tested for temperature, shock, vibration and altitude. MIL-S-901D tested for shock
- Small for space constrained deployments and for easy transport
- Enterprise class hardware and robust management
- Global fulfillment, service and support

Feature	PowerEdge R420xr technical specification	
Form factor	1U rack, 20" rack depth	
Processor	Intel® Xeon® processor E5-2470 v2, E5-2450 v2, E5-2430L v2, E5-2430 v2 or E5-2407 v2	
Processor sockets	2	
Internal interconnect	Intel® QuickPath Interconnect (QPI) links: 6.4GT/s; 7.2GT/s; 8.0 GT/s	
Cache	2.5MB per core with core options of 4, 6, 8	
Chipset	Intel® C602	
Memory ¹	Up to 384GB (12 DIMM slots); 4GB/8GB/16/32GB DDR3 up to 1600MT/s	
I/O slots	2 PCIe slots With 2 processors: <ul style="list-style-type: none"> • 1 x16 slot with x16 bandwidth, 3.0, half-height, half-length • 1 x16 slot with x16 bandwidth, 3.0, full-height, half-length With 1 processor: <ul style="list-style-type: none"> • 1 x8 slot with x4 bandwidth, 2.0, half-height, half-length • 1 x16 slot with x16 bandwidth, 3.0, full-height, half-length 	
RAID controller	Internal: PERC H310 PERC H710 PERC H710p	External HBAs (RAID): PERC H810 External HBAs (non-RAID): 6Gbps SAS HBA
Drive bays	Up to four 2.5" hot-plug SSD (SAS or SATA)	
Maximum internal storage ¹	Up to 6.4TB	
Hard drives ¹	2.5" SATA SSD MLC up to 1.6TB 2.5" SATA SSD TLC up to 960GB 2.5" SAS SSD MLC up to 1.6TB 2.5" SAS SSD SLC up to 800GB	
Embedded NIC	Broadcom® 5720 Dual Port 1Gb LOM	
I/O adapter options	1Gb Ethernet: Broadcom 5720 Dual Port 1Gb NIC Broadcom 5719 Quad Port 1Gb NIC Intel Ethernet I350 Dual Port 1Gb server adapter Intel Ethernet I350 Quad Port 1Gb server adapter 10Gb Ethernet: Intel X520 Dual Port 10Gb DA/SFP+ server adaptor Intel X540 Dual Port 10Gb Base-T adaptor	10Gb Converged Ethernet: QLogic® QLE8262 Dual Port 10Gb DA/SFP+ FC8 HBA: QLogic QLE2562 8Gb Dual Port FC HBA
Power supply	Dual, redundant, hot-plug 550W AC power supplies	
Availability	High-efficiency, hot-plug, redundant power; hot-plug SSDs; TPM; dual internal SD support; fan fault tolerance; optional filtered bezel; luggage tag; ECC memory; interactive LCD screen	
Remote management	Basic management (default), iDRAC7 with Lifecycle Controller, iDRAC7 Express (upgrade), iDRAC7 Enterprise (upgrade), 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)	
Systems management	IPMI 2.0 compliant Dell OpenManage™	
Rack support options	Rugged sliding rails ReadyRails™ static rails	
Operating systems (embedded and standard options)	Microsoft® Windows Server® 2012 Microsoft Windows Server 2012 R2 Microsoft Windows Server 2008 R2 SP1 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux®	
Harsh Environment testing	Military Standard 810G for temperature, shock, vibration and altitude; Military Standard 901D for Shock.	

¹GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

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/OEM.

Learn More at Dell.com/R420xr

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