





# Dell PowerEdge R520

A powerful, 2-socket rack server, the Dell<sup>TM</sup> PowerEdge<sup>TM</sup> R520 delivers balanced performance and storage expandability for data-intensive applications.

The Dell PowerEdge R520 is a 2-socket, 2U rack-mount server offering an excellent balance of processing power, storage capacity, and redundancy. The R520's price per performance, configuration flexibility, and headroom for growth make it highly appealing for consolidation and virtualization, web hosting, for use as a medium-size mail server, or as a general-purpose server. The R520 is optimized for running a wide range of core applications, such as small-medium mail server, web server, small-scale hosting, and database server. Consistent worldwide support makes it highly appealing to larger businesses and organizations with distributed offices.

# Designed for demanding workloads

The extensive memory, storage, and I/O capacities of the R520 make it ideal for consolidation and virtualization. Delivering the performance of two Intel® Xeon® E5-2400 processors and complemented by up to twelve DIMMs, up to four PCIe Gen3-enabled slots and up to eight internal hard drives, the R520 delivers balanced performance. With built-in redundancy, the R520 is a trustworthy platform for your business-critical databases and applications. The dense form factor and innovative systems management of the R520 allow you to save space and to use your IT administrator's time efficiently.

# Manage and secure your data

Features that protect your business data and keep the server running are essential. The extensive storage capacity of the R520 can be protected with both hardware RAID controllers and software solutions to protect your data and ensure that it is readily available. Built-in reliability, availability, and serviceability (RAS) features such as hot-pluggable hard drives and power supplies minimize the need to disrupt production work to take a server offline in the event of a component failure. Redundant, failsafe hypervisors also add an additional layer of protection for virtualized environments.

### The PowerEdge server line

The PowerEdge family is engineered with the right combination of features and performance scalability to handle tough workloads for both large and small data center environments.

The Dell OpenManage™ systems management portfolio includes integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller. This embedded feature helps IT administrators manage Dell servers in physical, virtual, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent. OpenManage also integrates and connects to leading third-party systems management solutions you may already own, so you can maintain your single point of control and capitalize on your existing investment. OpenManage simplifies the lifecycle of deploying, updating, monitoring, and maintaining your Dell PowerEdge servers.

# PowerEdge R520

- Up to 12 DIMMs with RAS
- PCIe Gen3-enabled expansion slots
- 8 x 3.5-inch drive bays with LCD diagnostic
- Powered by Intel Xeon E5-2400 processors

PowerEdge R520 technical specification  2U rack  Intel® Xeon® processor E5-2400 product family	
2	
	/s: 8.0 GT/s
,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
'	
	R3 up to 1600MHz
4 PCle slots: With two processors: One x16 PCle slot with x16 bandwidth, half-length, One x16 PCle slot with x8 bandwidth, full-length, fu Two x16 PCle slots with x8 bandwidth, half-length, With one processor: One x8 PCle slot with x4 bandwidth, half-length, h. One x16 PCle slots with x8 bandwidth, full-length, fu Two x8 PCle slots with x4 bandwidth, half-length, fi	half-height ull-height full-height alf-height ull-height
Internal controllers: PERC 5110 (SW RAID) PERC H310 PERC H710 PERC H710P	External HBAs (RAID): PERC H810 External HBAs (non-RAID): 6Gbps SAS HBA
Up to eight 3.5" hot-plug SAS, SATA or SSD	
Up to 24TB	
Hot-plug hard drive options: 2.5" SAS SSD, SATA SSD, SAS (15K, 10K) 3.5" SAS (15K), nearline SAS (7.2K), SATA (15K) Self-encrypting drives available	
Broadcom® 5720 GbE Dual Port	
Platinum efficiency, hot-plug redundant 495W or 750W Silver efficiency, cabled 550W power supply Gold efficiency, 1100W DC power supply Auto-ranging power supplies	/ power supplies
	C power supply; hot-plug hard drives; TPM; dual internal SD g; ECC memory, interactive LCD screen; ENERGY STAR® compliant; g
Basic management (default) iDRAC7 with Lifecycle Controller iDRAC7 Express (upgrade), iDRAC7 Enterprise (upgrade 8GB vFlash (upgrade), 16GB vFlash (upgrade)	)
IPMI 2.0 compliant OpenManage™ Essentials and Dell Management Conse OpenManage Power Center Dell OpenManage Connections: • OpenManage Integration Suite for Microsoft® Syste • Dell plug-in for VMware® vCenter® • HP Operations Manager, IBM Tivoli® Netcool®, and	em Center
	ent arm for 4-post racks (optional adapter brackets required for
Microsoft Windows Server® 2008 R2 SP1, x64 (includes Microsoft Windows® Small Business Server 2011 SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux  Optional embedded hypervisors: Citrix® XenServer™	: Hyper-V™ v2)
	With two processors:  One x16 PCle slot with x16 bandwidth, full-length, Two x16 PCle slot with x8 bandwidth, full-length, Two x16 PCle slot with x8 bandwidth, half-length, With one processor: One x8 PCle slot with x4 bandwidth, half-length, Two x16 PCle slot with x4 bandwidth, half-length, One x16 PCle slot with x4 bandwidth, half-length, Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slots with x4 bandwidth, half-length, fi Two x8 PCle slots with x4 bandwidth, half-length, fi Two x8 PCle slots with x4 bandwidth, half-length, fi Two x8 PCle slots with x4 bandwidth, half-length, fi Two x8 PCle slots with x4 bandwidth, half-length, fi Two x8 PCle slots with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x8 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x8 PCle slot with x4 bandwidth, half-length, fi Two x9 PCle slot with x4 bandwidth, half-length, fi Two x9 PCle slot with x4 bandwidth, full-length, fi Two x16 PCle slot with x4 bandwid

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

### Global services and support

Dell Services can help reduce IT complexity, lower costs, and eliminate inefficiencies by making IT and business solutions work harder for you. The Dell Services team takes a holistic view of your needs and designs solutions for your environment and business objectives while leveraging proven delivery methods, local talent, and in-depth domain knowledge for the lowest total cost of ownership.

### 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/PowerEdge



