PowerEdge R620

A hyper-dense, two-socket, 1U rack server, the Dell PowerEdge R620 has a large memory footprint and impressive I/O options that make it an exceptional platform for space-sensitive environments.

Designed for exceptional performance on a wide range of applications, the Dell PowerEdge R620 rack server is an impressive general purpose platform that is perfect for data centers with space constraints. With its hyper-dense memory (up to 768GB in a 1U form factor) and the Intel® Xeon® processor E5-2600 or E5-2600 v2 product families, the R620 is perfect for virtualization, high-performance computing (HPC), and workgroup collaboration applications.

Accomplish more

With an exceptionally large memory footprint combined with balanced, scalable I/O capabilities, including integrated PCI Express® (PCIe) 3.0-capable expansion slots, the R620 packs more computing power into your space-challenged data center. With reliability, availability and serviceability (RAS) features like hot-pluggable fans, disks, power-supply units and even redundant failsafe hypervisors, the R620 keeps your data center running with rock-steady reliability.

Dense design for demanding workloads

Virtualization environments demand high memory capacity to maximize the number of virtual machines per server; the R620 was designed specifically with these environments in mind. It also offers outstanding computational density for HPC application clusters by providing powerful processing capabilities in a compact form factor.

Tailor your network fabric

Tailor your network throughput to match your application needs. Dell Select Network Adapters, our flexible NIC technology, let you choose the right network fabric without using up a valuable PCI slot. You can pick speed, technology, vendor and other options, like switch independent partitioning, which lets you share and manage bandwidth on 10GbE connections.

Enterprise-wide systems management

PowerEdge embedded management technology, Integrated Dell Remote Access Controller 7 (iDRAC7) with Lifecycle Controller, helps IT administrators manage Dell servers in physical, virtual, local and remote environments — agent-free or with a systems management software agent installed. **iDRAC7 Enterprise** features include a multi-administrator virtual console, virtual media and remote file share that enable IT administrators to operate servers "as if they were there," ensuring secure access to servers from anywhere in the world.

OpenManage™ Essentials, a comprehensive monitoring and management console available as a no-charge software download, simplifies and automates basic hardware management tasks while Dell SupportAssist helps you maintain a healthy and productive environment.

PowerEdge R620

- Compute density in a 1U form factor

- Optional hot-plug, front-access PCIe SSDs

- Choice of network fabric technologies

- PCIe 3.0-enabled expansion slots

Feature	PowerEdge R620 technical specification	
Form factor	1U rack	
Processors	Intel® Xeon® processor E5-2600 or E5-2600 v2 product family	
Processor sockets	2	
Internal interconnect	2 x Intel QuickPath Interconnect (QPI) links: 6.4GT/s, 7.2GT/s, 8.0GT/s	
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12	
Chipset	Intel C602	
Memory[1]	Up to 768GB (24 DIMM slots): 2GB/4GB/8GB/16GB/32GB/64GB DDR3 up to 1866MT/s	
I/O slots	**3 PCIe slots: (10-drive-bay configuration is available only with the 3 PCIe slot option)** Two x16 slots with x16 bandwidth, half-height, half-length One x16 slot with x8 bandwidth, half-height, half-length or **2 PCIe slots:** One x16 slot with x16 bandwidth, full-height, 3/4 length One x16 slot with x16 bandwidth (or x8 with one processor only), half-height, half-length	
RAID controller	**Internal controllers:** PERC S110 (SW RAID) PERC H310 PERC H710 PERC H710P	**External HBAs (RAID):** PERC H810 **External HBAs (non-RAID):** 6Gbps SAS HBA LSI SAS 9207-8i 6Gb/s SAS
Drive bays	Up to ten 2.5" hot-plug SAS, SATA, or SSD or up to four hot-plug 2.5" SAS, SATA, or SSD + two PCIe SSD	
Hard drives	Hard drive options: 2.5" SSD, SAS HDD	3.5" SAS HDD, Nearline SAS HDD, SATA HDD Self-encrypting drives available
Embedded NIC	Broadcom® 5720 quad-port 1GbE Base-T (no TOE or iSCSI offload) Broadcom 57800S dual-port 10GbE Base-T with 2 x 1GbE (TOE and iSCSI offload available on 10GbE ports Broadcom 57800S dual-port 10GbE SFP+ with 2 x 1GbE (TOE and iSCSI offload available on 10GbE ports Broadcom 57840S quad-port 10GbE SFP+ Rack NDC (NPAR1.0, SRIOV, DCB, iSCSI and FCoE offloads and CEM) Intel I350 quad-port 1GbE Base-T (no TOE or iSCSI offload) Intel X540 dual-port 10GbE Bse-T with 2 x 1GbE (FCoE capability enabled on the 10GbE ports)	
Power supplies	Titanium efficiency, hot-plug redundant 750W AC power supply; auto-ranging Platinum efficiency, hot-plug redundant 495W, 750W or 1100W AC power supply; 1100W DC power supply	
Availability	High-efficiency, hot-plug, redundant power supplies; hot-plug hard drives; TPM; dual internal SD support; hot-plug, redundant fans; optional bezel; information tag; ECC memory; interactive LCD screen; extended thermal support; ENERGY STAR® compliant; switch independent partitioning	
Remote management	iDRAC7 with Lifecycle Controller iDRAC7 Express (default), iDRAC7 Enterprise (upgrade option), 8GB vFlash media (upgrade option), 16GB vFlash media (upgrade option)	
Systems management	IPMI 2.0 compliant Dell OpenManage Essentials Dell OpenManage Mobile Dell OpenManage Power Center	Dell OpenManage Integrations: • Dell OpenManage Integration Suite for Microsoft System Center • Dell OpenManage Integration for VMware® vCenter Dell OpenManage Connections: • HP Operations Manager, IBM Tivoli® Netcool®, and CA Network and Systems Management • Dell OpenManage Plug-in for Oracle® Database Manager
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm. ReadyRails static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded and 2-post (Telco) racks.	
Operating systems	Microsoft Windows® Server® 2012 R2 (includes Hyper-V®) Microsoft Windows Server 2012 (includes Hyper-V) Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V) Microsoft Windows Small Business Server 2011 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux®	**Virtualization options:** Citrix® XenServer® VMware vSphere® ESXi™ Red Hat Enterprise Virtualization® For more information on the specific versions and additions, visit Dell.com/OSsupport.
OEM-ready version	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.	

Global services and support

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.

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