



# Dell EMC PowerEdge R640 Servers Datasheet



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Leading Network Hardware Supplier

## CONTENT

Content .....	1
Overview .....	2
Features .....	2
The Configuration .....	4
Configuration 1 - Intel® Xeon® Bronze 3204 .....	4
Configuration 2 - Intel® Xeon® Silver 4208 .....	9
Configuration 3 - Intel® Xeon® Gold 5217 .....	13
Configuration 4 - Intel® Xeon® Silver 4214 .....	18
Configuration 5 - Intel® Xeon® Silver 4210 .....	22
Specification .....	27
Ordering information.....	30
Where to Buy .....	32
Sources.....	32

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## OVERVIEW

The [Dell PowerEdge R640](#) is the ideal dual-socket platform for dense scale-out data center computing and storage. Benefit from the flexibility of 2.5" or 3.5" drives, the performance of NVMe and embedded intelligence to ensure optimized application performance in a secure platform. With embedded diagnostics and SupportAssist, the R640 delivers maximum uptime in a worry-free environment.

The Dell EMC PowerEdge R640 system is a 1U rack server that supports up to:

- Two Intel Xeon Scalable Processors
- 24 DIMM slots
- 8 x 2.5-inch hard drives or 4 x 3.5-inch hard drives on the front panel, or 10 x 2.5-inch hard drives on the front panel with optional support for 2 X 2.5-inch hard drives on the back panel
- Two AC or DC redundant power supply units

## FEATURES

### **Uncompromising performance and density for data center productivity and scale**

The PowerEdge R640 is the ideal dual-socket platform for dense scale-out data center computing and storage. Benefit from the flexibility of 2.5" or 3.5" drives, the performance of NVMe and embedded intelligence to ensure optimized application performance in a secure platform. With embedded diagnostics and SupportAssist, the R640 delivers maximum uptime in a worry-free environment.

Ideal workloads:

- Dense software-defined storage
- Service providers: application tier
- Dense private cloud
- Virtualization
- HPC



### **Drive transformation with the Dell EMC PowerEdge portfolio**

Data center evolution starts with modern platforms that easily scale and are optimized for application performance. The PowerEdge R640 is built upon a scalable system architecture and provides the choice and flexibility to easily meet performance demands.

- Simplify deployment and easily scale from 3 to 1000+ nodes for software-defined storage with Dell EMC Ready Nodes.
- Maximize performance with up to 10 NVMe drives and 24 DIMMs, 12 of which can be DCPMMs or NVDIMMs
- Scale compute resources with 2nd Generation Intel® Xeon® Scalable processors, and tailor performance based on your unique workload requirements.



### **Automate productivity with intelligent, embedded management**

Dell EMC automation and intelligent management mean you spend less time on routine maintenance so you can focus on bigger priorities.

- Help maximize uptime and reduce the IT effort to resolve issues by up to 72%\* with ProSupport Plus and SupportAssist.
- Leverage existing management consoles with easy integrations for VMware® vSphere®, Microsoft® System Center and Nagios®.

- Improve productivity with agent-free Dell EMC iDRAC9 for automated, efficient management.
- Simplify deployment with OpenManage next-generation console and server profiles to fully configure and prep servers in rapid, scalable fashion.

### **Fortify your data center with comprehensive protection**

Dell EMC provides a comprehensive, cyber-resilient architecture with security embedded into every server to protect your data.

- Protect server configuration and firmware from malicious changes with new Configuration Lock-down.
- Use system erase of local storage to help ensure data privacy when you repurpose or retire servers.
- Automate updates that check file dependencies and proper update sequence, before deploying them independently from the OS/hypervisor.
- Take control of your firmware consoles with embedded authentication that is designed to allow only properly designed updates to run.

## THE CONFIGURATION

Dell R640 series provides 5 based configurations.

### **Configuration 1 - Intel® Xeon® Bronze 3204**

<b>Price Match Guarantee</b>	<b>Fully customizable: Intel® Xeon® Bronze 3204, Optional Operating System, 8GB Memory, 480GB Solid State Drive and a 3 Year Warranty</b>
<b>Processor</b>	Intel Xeon Bronze 3204 1.9G, 6C/6T, 9.6GT/s, 8.25M Cache, No Turbo, No HT (85W) DDR4-2133
<b>Operating System</b>	No Operating System
<b>Base</b>	PowerEdge R640 Server
<b>Accelerators</b>	Up to one single-width FPGA  Up to three single-width GPU (NVIDIA T4)

<b>Memory</b>	8GB RDIMM, 2666MT/s, Single Rank
<b>RAID</b>	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)
<b>Hard Drive</b>	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 876 TBW
<b>Warranty</b>	Basic Next Business Day 36 Months, 36 Month(s)
<b>Extend Services</b>	None
<b>Chassis</b>	2.5" Chassis with up to 8 Hard Drives and 3PCIe slots
<b>Storage Controllers</b>	Internal Controllers: PERC H330, H730P, H740P, HBA330 External Controllers: 12Gbps SAS HBA Software RAID: S140 Internal Boot: Boot Optimized Storage Subsystem (BOSS): HWRAID 2 x M.2 SSDs 240GB, 480 GB Internal Dual SD Module
<b>Power Supplies</b>	495W Platinum 750W Platinum 750W 240HVDC Platinumi 1100W 48VDC 1100W Platinum 1100W 380HVDC Platinumi 1600W Platinum 750W Titanium

	<p>Hot plug power supplies with full redundancy option</p> <p>Up to 8 hot plugs fans with full redundancy</p>
<b>Dimension (H×W×D)</b>	42.8mm (1.69") × 482.0mm (18.98") × 808.5mm (31.8")
<b>Weight</b>	21.9kg (48.3 lbs.)
<b>Bezel</b>	Optional LCD bezel or security bezel
<b>Security</b>	<p>Cryptographically signed firmware</p> <p>Secure Boot</p> <p>Secure Erase</p> <p>Silicon Root of Trust</p> <p>System Lockdown (requires OpenManage Enterprise)</p> <p>TPM 1.2/2.0, TCM 2.0 optional</p>
<b>Ports</b>	<p><b>Network Options</b></p> <p>4 x 1GbE</p> <p>2 x 10GbE + 2 x 1GbE</p> <p>4 x 10GbE</p> <p>2 x 25GbE</p> <p><b>Front Ports</b></p> <p>1 x Dedicated iDRAC direct USB</p> <p>1 x USB 2.0</p> <p>1 x USB 3.0 (optional)</p> <p>1 x Video</p> <p><b>Rear Ports</b></p>

	<p>1 x Dedicated iDRAC network port</p> <p>1 x Serial</p> <p>2 x USB 3.0</p> <p>1 x Video</p>
<b>Storage</b>	<p><b>Front Bays</b></p> <p>Up to 10 x 2.5" with up to 8 NVMe, SAS/SATA/SSD/NVMe, max 76.8TB</p> <p>Up to 10 NVMe, max 64TB</p> <p>Up to 4 x 3.5" SAS/SATA, max 56TB</p> <p><b>Rear Bays</b></p> <p>Up to 2 x 2.5" SAS/SATA/SSD/NVMe, max 15.36TB</p>
<b>Slots</b>	<p><b>PCIe</b></p> <p>3 x Gen3 slots (all x16)</p> <p><b>Video Card</b></p> <p>1 x VGA</p>
<b>Management</b>	<p><b>Embedded / At-the-Server</b></p> <p>iDRAC9</p> <p>iDRAC RESTful API with Redfish</p> <p>iDRAC Direct</p> <p>Quick Sync 2 BLE/wireless module</p> <p><b>Consoles</b></p> <p>OpenManage Enterprise</p>



OpenManage Power Center

**Mobility**

OpenManage Mobile

**Tools**

Dell EMC RACADM CLI

Dell EMC Repository Manager

Dell EMC System Update

Dell EMC Server Update Utility

Dell EMC Update Catalogs

iDRAC Service Module

IPMI Tool

OpenManage Server Administrator

OpenManage Storage Services

**OpenManage Integrations**

BMC Truesight

Microsoft® System Center

RedHat® Ansible® Modules

VMware® vCenter

**OpenManage Connections**

IBM Tivoli® Netcool/OMNIbus

IBM Tivoli® Network Manager IP Edition

Micro Focus® Operations Manager I

Nagios® Core

	Nagios® XI
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## Configuration 2 - Intel® Xeon® Silver 4208

<b>Price Match Guarantee</b>	<b>Storage Optimized: Intel® Xeon® Silver 4208, Optional Operating System, 16GB Memory, 1.2TB SAS Hard Drive and a 3 Year Warranty</b>
<b>Processor</b>	Intel Xeon Silver 4208 2.1G, 8C/16T, 9.6GT/s, 11M Cache, Turbo, HT (85W) DDR4-2400
<b>Operating System</b>	No Operating System
<b>Base</b>	PowerEdge R640 Server
<b>Accelerators</b>	Up to one single-width FPGA  Up to three single-width GPU (NVIDIA T4)
<b>Memory</b>	16GB RDIMM, 2933MT/s, Dual Rank
<b>RAID</b>	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)
<b>Hard Drive</b>	1.2TB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive
<b>Warranty</b>	Basic Next Business Day 36 Months, 36 Month(s)
<b>Extend Services</b>	None
<b>Chassis</b>	2.5" Chassis with up to 8 Hard Drives and 3PCIe slots
<b>Storage Controllers</b>	Internal Controllers: PERC H330, H730P, H740P, HBA330  External Controllers: 12Gbps SAS HBA  Software RAID: S140

	<p>Internal Boot: Boot Optimized Storage Subsystem (BOSS):</p> <p>HWRAID 2 x M.2 SSDs 240GB, 480 GB</p> <p>Internal Dual SD Module</p>
<b>Power Supplies</b>	<p>495W Platinum</p> <p>750W Platinum</p> <p>750W 240HVDC Platinumi</p> <p>1100W 48VDC</p> <p>1100W Platinum</p> <p>1100W 380HVDC Platinumi</p> <p>1600W Platinum</p> <p>750W Titanium</p> <p>Hot plug power supplies with full redundancy option</p> <p>Up to 8 hot plugs fans with full redundancy</p>
<b>Dimension (H×W×D)</b>	42.8mm (1.69") × 482.0mm (18.98") × 808.5mm (31.8")
<b>Weight</b>	21.9kg (48.3 lbs.)
<b>Bezel</b>	Optional LCD bezel or security bezel
<b>Security</b>	<p>Cryptographically signed firmware</p> <p>Secure Boot</p> <p>Secure Erase</p> <p>Silicon Root of Trust</p> <p>System Lockdown (requires OpenManage Enterprise)</p> <p>TPM 1.2/2.0, TCM 2.0 optional</p>

<p><b>Ports</b></p>	<p><b>Network Options</b></p> <p>4 x 1GbE</p> <p>2 x 10GbE + 2 x 1GbE</p> <p>4 x 10GbE</p> <p>2 x 25GbE</p> <p><b>Front Ports</b></p> <p>1 x Dedicated iDRAC direct USB</p> <p>1 x USB 2.0</p> <p>1 x USB 3.0 (optional)</p> <p>1 x Video</p> <p><b>Rear Ports</b></p> <p>1 x Dedicated iDRAC network port</p> <p>1 x Serial</p> <p>2 x USB 3.0</p> <p>1 x Video</p>
<p><b>Storage</b></p>	<p><b>Front Bays</b></p> <p>Up to 10 x 2.5" with up to 8 NVMe, SAS/SATA/SSD/NVMe, max 76.8TB</p> <p>Up to 10 NVMe, max 64TB</p> <p>Up to 4 x 3.5" SAS/SATA, max 56TB</p> <p><b>Rear Bays</b></p> <p>Up to 2 x 2.5" SAS/SATA/SSD/NVMe, max 15.36TB</p>

<p><b>Slots</b></p>	<p><b>PCIe</b></p> <p>3 x Gen3 slots (all x16)</p> <p><b>Video Card</b></p> <p>1 x VGA</p>
<p><b>Management</b></p>	<p><b>Embedded / At-the-Server</b></p> <p>iDRAC9</p> <p>iDRAC RESTful API with Redfish</p> <p>iDRAC Direct</p> <p>Quick Sync 2 BLE/wireless module</p> <p><b>Consoles</b></p> <p>OpenManage Enterprise</p> <p>OpenManage Power Center</p> <p><b>Mobility</b></p> <p>OpenManage Mobile</p> <p><b>Tools</b></p> <p>Dell EMC RACADM CLI</p> <p>Dell EMC Repository Manager</p> <p>Dell EMC System Update</p> <p>Dell EMC Server Update Utility</p> <p>Dell EMC Update Catalogs</p> <p>iDRAC Service Module</p> <p>IPMI Tool</p>

	<p>OpenManage Server Administrator</p> <p>OpenManage Storage Services</p> <p><b>OpenManage Integrations</b></p> <p>BMC Truesight</p> <p>Microsoft® System Center</p> <p>RedHat® Ansible® Modules</p> <p>VMware® vCenter</p> <p><b>OpenManage Connections</b></p> <p>IBM Tivoli® Netcool/OMNIBus</p> <p>IBM Tivoli® Network Manager IP Edition</p> <p>Micro Focus® Operations Manager I</p> <p>Nagios® Core</p> <p>Nagios® XI</p>
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### Configuration 3 - Intel® Xeon® Gold 5217

<b>Price Match Guarantee</b>	<b>Top Seller: Intel® Xeon® Gold 5217, Optional Operating System, 32GB Memory, 480GB Solid State Drive and a 3 Year Warranty</b>
<b>Processor</b>	Intel® Xeon® Gold 5217 3.0G, 8C/16T, 10.4GT/s, 11M Cache, Turbo, HT (115W) DDR4-2666
<b>Operating System</b>	No Operating System
<b>Base</b>	PowerEdge R640 Server
<b>Accelerators</b>	Up to one single-width FPGA

	Up to three single-width GPU (NVIDIA T4)
<b>Memory</b>	32GB RDIMM, 2933MT/s, Dual Rank
<b>RAID</b>	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)
<b>Hard Drive</b>	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 876 TBW
<b>Warranty</b>	Basic Next Business Day 36 Months, 36 Month(s)
<b>Extend Services</b>	None
<b>Chassis</b>	2.5" Chassis with up to 8 Hard Drives and 3PCIe slots
<b>Storage Controllers</b>	<p>Internal Controllers: PERC H330, H730P, H740P, HBA330</p> <p>External Controllers: 12Gbps SAS HBA</p> <p>Software RAID: S140</p> <p>Internal Boot: Boot Optimized Storage Subsystem (BOSS):</p> <p>HWRAID 2 x M.2 SSDs 240GB, 480 GB</p> <p>Internal Dual SD Module</p>
<b>Power Supplies</b>	<p>495W Platinum</p> <p>750W Platinum</p> <p>750W 240HVDC Platinumi</p> <p>1100W 48VDC</p> <p>1100W Platinum</p> <p>1100W 380HVDC Platinumi</p> <p>1600W Platinum</p>

	<p>750W Titanium</p> <p>Hot plug power supplies with full redundancy option</p> <p>Up to 8 hot plugs fans with full redundancy</p>
<b>Dimension (H×W×D)</b>	42.8mm (1.69") × 482.0mm (18.98") × 808.5mm (31.8")
<b>Weight</b>	21.9kg (48.3 lbs.)
<b>Bezel</b>	Optional LCD bezel or security bezel
<b>Security</b>	<p>Cryptographically signed firmware</p> <p>Secure Boot</p> <p>Secure Erase</p> <p>Silicon Root of Trust</p> <p>System Lockdown (requires OpenManage Enterprise)</p> <p>TPM 1.2/2.0, TCM 2.0 optional</p>
<b>Ports</b>	<p><b>Network Options</b></p> <p>4 x 1GbE</p> <p>2 x 10GbE + 2 x 1GbE</p> <p>4 x 10GbE</p> <p>2 x 25GbE</p> <p><b>Front Ports</b></p> <p>1 x Dedicated iDRAC direct USB</p> <p>1 x USB 2.0</p> <p>1 x USB 3.0 (optional)</p> <p>1 x Video</p>



	<p><b>Rear Ports</b></p> <p>1 x Dedicated iDRAC network port</p> <p>1 x Serial</p> <p>2 x USB 3.0</p> <p>1 x Video</p>
<p><b>Storage</b></p>	<p><b>Front Bays</b></p> <p>Up to 10 x 2.5" with up to 8 NVMe, SAS/SATA/SSD/NVMe, max 76.8TB</p> <p>Up to 10 NVMe, max 64TB</p> <p>Up to 4 x 3.5" SAS/SATA, max 56TB</p> <p><b>Rear Bays</b></p> <p>Up to 2 x 2.5" SAS/SATA/SSD/NVMe, max 15.36TB</p>
<p><b>Slots</b></p>	<p><b>PCIe</b></p> <p>3 x Gen3 slots (all x16)</p> <p><b>Video Card</b></p> <p>1 x VGA</p>
<p><b>Management</b></p>	<p><b>Embedded / At-the-Server</b></p> <p>iDRAC9</p> <p>iDRAC RESTful API with Redfish</p> <p>iDRAC Direct</p> <p>Quick Sync 2 BLE/wireless module</p> <p><b>Consoles</b></p>

	OpenManage Enterprise
	OpenManage Power Center
	<b>Mobility</b>
	OpenManage Mobile
	<b>Tools</b>
	Dell EMC RACADM CLI
	Dell EMC Repository Manager
	Dell EMC System Update
	Dell EMC Server Update Utility
	Dell EMC Update Catalogs
	iDRAC Service Module
	IPMI Tool
	OpenManage Server Administrator
	OpenManage Storage Services
	<b>OpenManage Integrations</b>
	BMC Truesight
	Microsoft® System Center
	RedHat® Ansible® Modules
	VMware® vCenter
	<b>OpenManage Connections</b>
	IBM Tivoli® Netcool/OMNIBus
	IBM Tivoli® Network Manager IP Edition
	Micro Focus® Operations Manager I

	Nagios® Core
	Nagios® XI

#### Configuration 4 - Intel® Xeon® Silver 4214

<b>Price Match Guarantee</b>	<b>SSD Optimized: Intel® Xeon® Silver 4214, Optional Operating System, 32GB Memory, 1.92TB Solid State Drive and a 3 Year ProSupport Warranty</b>
<b>Processor</b>	Intel Xeon Silver 4214 2.2G, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (85W) DDR4-2400
<b>Operating System</b>	No Operating System
<b>Base</b>	PowerEdge R640 Server
<b>Accelerators</b>	Up to one single-width FPGA  Up to three single-width GPU (NVIDIA T4)
<b>Memory</b>	32GB RDIMM, 2933MT/s, Dual Rank
<b>RAID</b>	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)
<b>Hard Drive</b>	1.92TB SSD SATA Mix Use 6Gbps 512 2.5in Hot-plug AG Drive, 3 DWPD, 10512 TBW
<b>Warranty</b>	Basic Next Business Day 36 Months, 36 Month(s)
<b>Extend Services</b>	None
<b>Chassis</b>	2.5" Chassis with up to 8 Hard Drives and 3PCIe slots
<b>Storage Controllers</b>	Internal Controllers: PERC H330, H730P, H740P, HBA330  External Controllers: 12Gbps SAS HBA

	<p>Software RAID: S140</p> <p>Internal Boot: Boot Optimized Storage Subsystem (BOSS):</p> <p>HWRAID 2 x M.2 SSDs 240GB, 480 GB</p> <p>Internal Dual SD Module</p>
<b>Power Supplies</b>	<p>495W Platinum</p> <p>750W Platinum</p> <p>750W 240HVDC Platinumi</p> <p>1100W 48VDC</p> <p>1100W Platinum</p> <p>1100W 380HVDC Platinumi</p> <p>1600W Platinum</p> <p>750W Titanium</p> <p>Hot plug power supplies with full redundancy option</p> <p>Up to 8 hot plugs fans with full redundancy</p>
<b>Dimension (H×W×D)</b>	42.8mm (1.69") × 482.0mm (18.98") × 808.5mm (31.8")
<b>Weight</b>	21.9kg (48.3 lbs.)
<b>Bezel</b>	Optional LCD bezel or security bezel
<b>Security</b>	<p>Cryptographically signed firmware</p> <p>Secure Boot</p> <p>Secure Erase</p> <p>Silicon Root of Trust</p> <p>System Lockdown (requires OpenManage Enterprise)</p>

	TPM 1.2/2.0, TCM 2.0 optional
<b>Ports</b>	<p><b>Network Options</b></p> <p>4 x 1GbE</p> <p>2 x 10GbE + 2 x 1GbE</p> <p>4 x 10GbE</p> <p>2 x 25GbE</p> <p><b>Front Ports</b></p> <p>1 x Dedicated iDRAC direct USB</p> <p>1 x USB 2.0</p> <p>1 x USB 3.0 (optional)</p> <p>1 x Video</p> <p><b>Rear Ports</b></p> <p>1 x Dedicated iDRAC network port</p> <p>1 x Serial</p> <p>2 x USB 3.0</p> <p>1 x Video</p>
<b>Storage</b>	<p><b>Front Bays</b></p> <p>Up to 10 x 2.5" with up to 8 NVMe, SAS/SATA/SSD/NVMe, max 76.8TB</p> <p>Up to 10 NVMe, max 64TB</p> <p>Up to 4 x 3.5" SAS/SATA, max 56TB</p> <p><b>Rear Bays</b></p> <p>Up to 2 x 2.5" SAS/SATA/SSD/NVMe, max 15.36TB</p>

<p><b>Slots</b></p>	<p><b>PCIe</b></p> <p>3 x Gen3 slots (all x16)</p> <p><b>Video Card</b></p> <p>1 x VGA</p>
<p><b>Management</b></p>	<p><b>Embedded / At-the-Server</b></p> <p>iDRAC9</p> <p>iDRAC RESTful API with Redfish</p> <p>iDRAC Direct</p> <p>Quick Sync 2 BLE/wireless module</p> <p><b>Consoles</b></p> <p>OpenManage Enterprise</p> <p>OpenManage Power Center</p> <p><b>Mobility</b></p> <p>OpenManage Mobile</p> <p><b>Tools</b></p> <p>Dell EMC RACADM CLI</p> <p>Dell EMC Repository Manager</p> <p>Dell EMC System Update</p> <p>Dell EMC Server Update Utility</p> <p>Dell EMC Update Catalogs</p> <p>iDRAC Service Module</p> <p>IPMI Tool</p>

	<p>OpenManage Server Administrator</p> <p>OpenManage Storage Services</p> <p><b>OpenManage Integrations</b></p> <p>BMC Truesight</p> <p>Microsoft® System Center</p> <p>RedHat® Ansible® Modules</p> <p>VMware® vCenter</p> <p><b>OpenManage Connections</b></p> <p>IBM Tivoli® Netcool/OMNIBus</p> <p>IBM Tivoli® Network Manager IP Edition</p> <p>Micro Focus® Operations Manager I</p> <p>Nagios® Core</p> <p>Nagios® XI</p>
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### Configuration 5 - Intel® Xeon® Silver 4210

<b>Price Match Guarantee</b>	<b>Top Seller: Intel® Xeon® Silver 4210, Optional Operating System, 32GB Memory, 1.2TB SAS hard drive and a 3 Year Warranty</b>
<b>Processor</b>	Intel Xeon Silver 4210 2.2G, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (85W) DDR4-2400
<b>Operating System</b>	No Operating System
<b>Base</b>	PowerEdge R640 Server
<b>Accelerators</b>	Up to one single-width FPGA

	Up to three single-width GPU (NVIDIA T4)
<b>Memory</b>	8GB RDIMM, 2666MT/s, Single Rank
<b>RAID</b>	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)
<b>Hard Drive</b>	1.2TB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive
<b>Warranty</b>	Basic Next Business Day 36 Months, 36 Month(s)
<b>Extend Services</b>	None
<b>Chassis</b>	2.5" Chassis with up to 8 Hard Drives and 3PCIe slots
<b>Storage Controllers</b>	<p>Internal Controllers: PERC H330, H730P, H740P, HBA330</p> <p>External Controllers: 12Gbps SAS HBA</p> <p>Software RAID: S140</p> <p>Internal Boot: Boot Optimized Storage Subsystem (BOSS):</p> <p>HWRAID 2 x M.2 SSDs 240GB, 480 GB</p> <p>Internal Dual SD Module</p>
<b>Power Supplies</b>	<p>495W Platinum</p> <p>750W Platinum</p> <p>750W 240HVDC Platinumi</p> <p>1100W 48VDC</p> <p>1100W Platinum</p> <p>1100W 380HVDC Platinumi</p> <p>1600W Platinum</p> <p>750W Titanium</p>



	<p>Hot plug power supplies with full redundancy option</p> <p>Up to 8 hot plugs fans with full redundancy</p>
<b>Dimension (H×W×D)</b>	42.8mm (1.69") × 482.0mm (18.98") × 808.5mm (31.8")
<b>Weight</b>	21.9kg (48.3 lbs.)
<b>Bezel</b>	Optional LCD bezel or security bezel
<b>Security</b>	<p>Cryptographically signed firmware</p> <p>Secure Boot</p> <p>Secure Erase</p> <p>Silicon Root of Trust</p> <p>System Lockdown (requires OpenManage Enterprise)</p> <p>TPM 1.2/2.0, TCM 2.0 optional</p>
<b>Ports</b>	<p><b>Network Options</b></p> <p>4 x 1GbE</p> <p>2 x 10GbE + 2 x 1GbE</p> <p>4 x 10GbE</p> <p>2 x 25GbE</p> <p><b>Front Ports</b></p> <p>1 x Dedicated iDRAC direct USB</p> <p>1 x USB 2.0</p> <p>1 x USB 3.0 (optional)</p> <p>1 x Video</p> <p><b>Rear Ports</b></p>

	<p>1 x Dedicated iDRAC network port</p> <p>1 x Serial</p> <p>2 x USB 3.0</p> <p>1 x Video</p>
<b>Storage</b>	<p><b>Front Bays</b></p> <p>Up to 10 x 2.5" with up to 8 NVMe, SAS/SATA/SSD/NVMe, max 76.8TB</p> <p>Up to 10 NVMe, max 64TB</p> <p>Up to 4 x 3.5" SAS/SATA, max 56TB</p> <p><b>Rear Bays</b></p> <p>Up to 2 x 2.5" SAS/SATA/SSD/NVMe, max 15.36TB</p>
<b>Slots</b>	<p><b>PCIe</b></p> <p>3 x Gen3 slots (all x16)</p> <p><b>Video Card</b></p> <p>1 x VGA</p>
<b>Management</b>	<p><b>Embedded / At-the-Server</b></p> <p>iDRAC9</p> <p>iDRAC RESTful API with Redfish</p> <p>iDRAC Direct</p> <p>Quick Sync 2 BLE/wireless module</p> <p><b>Consoles</b></p> <p>OpenManage Enterprise</p>

OpenManage Power Center

**Mobility**

OpenManage Mobile

**Tools**

Dell EMC RACADM CLI

Dell EMC Repository Manager

Dell EMC System Update

Dell EMC Server Update Utility

Dell EMC Update Catalogs

iDRAC Service Module

IPMI Tool

OpenManage Server Administrator

OpenManage Storage Services

**OpenManage Integrations**

BMC Truesight

Microsoft® System Center

RedHat® Ansible® Modules

VMware® vCenter

**OpenManage Connections**

IBM Tivoli® Netcool/OMNIbus

IBM Tivoli® Network Manager IP Edition

Micro Focus® Operations Manager I

Nagios® Core

	Nagios® XI
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**SPECIFICATION**

<b>Specification</b>	<b>Dell PowerEdge R640</b>
<b>Memory</b>	<p>24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2933MT/s, 3TB max</p> <p>Up to 12 NVDIMM, 192 GB Max</p> <p>Up to 12 Intel® Optane™ DC persistent memory DCPMM, 6.14TB max, (7.68TB max with DPCMM + LRDIMM)</p> <p>Supports registered ECC DDR4 DIMMs only</p>
<b>Storage Controllers</b>	<p>Internal controllers: PERC H330, H730p, H740p, Software RAID (SWRAID) S140</p> <p>Boot Optimized Storage Subsystem: HWRAID 2 x M.2 SSDs 240GB, 480GB</p> <p>External PERC (RAID): H840</p> <p>12Gbps SAS HBAs (non-RAID): External - 12Gbps SAS HBA (non-RAID), Internal - HBA330 (non-RAID)</p>
<b>Drive Bays</b>	<p>Front drive bays: Up to 10 x 2.5" SAS/SATA (HDD/SSD) with up to 8 NVMe SSD max 76.8TB or up to 10 NVMe drives max 64TB,</p> <p>or up to 4 x 3.5" SAS/SATA HDD max 64TB</p> <p>Rear drive bays: Up to 2 x 2.5" SAS/SATA (HDD/SSD), NVMe SSD max 15.36TB</p> <p>Optional DVD-ROM, DVD+RW</p>
<b>Power Supplies</b>	<p>495W Platinum</p> <p>750W Platinum</p>

	<p>750W 240HVDC Platinumi</p> <p>1100W 48VDC</p> <p>1100W Platinum</p> <p>1100W 380HVDC Platinumi</p> <p>1600W Platinum</p> <p>750W Titanium</p> <p>Hot plug power supplies with full redundancy option</p> <p>Up to 8 hot plugs fans with full redundancy</p>
<b>Dimension (H×W×D)</b>	<p>Form factor: Rack (1U)</p> <p>42.8mm (1.69") × 482.0mm (18.98") × 808.5mm (31.8")</p>
<b>Weight</b>	21.9kg (48.3 lbs.)
<b>Embedded management</b>	iDRAC9, iDRAC Direct, iDRAC RESTful API with Redfish, Quick Sync 2 wireless module optional
<b>Bezel</b>	Optional LCD bezel or security bezel
<b>OpenManage™ Software</b>	<p>OpenManage Enterprise</p> <p>OpenManage Mobile</p> <p>OpenManage Power Center</p>
<b>Integrations and connections</b>	<p>Integrations:</p> <p>Microsoft® System Center</p> <p>VMware® vCenter™</p> <p>BMC Truesight</p> <p>Red Hat Ansible Modules</p>

	<p>Connections:</p> <p>IBM Tivoli® Netcool/OMNIBus</p> <p>IBM Tivoli® Network Manager IP Edition</p> <p>Micro Focus® Operations Manager I</p> <p>Nagios® Core</p> <p>Nagios® XI</p>
<b>Security</b>	<p>Cryptographically signed firmware</p> <p>Secure Boot</p> <p>Secure Erase</p> <p>Silicon Root of Trust</p> <p>System Lockdown (requires OpenManage Enterprise)</p> <p>TPM 1.2/2.0, TCM 2.0 optional</p>
<b>Ports</b>	<p><b>Network Options</b></p> <p>4 x 1GbE</p> <p>2 x 10GbE + 2 x 1GbE</p> <p>4 x 10GbE</p> <p>2 x 25GbE</p> <p><b>Front Ports</b></p> <p>1 x Dedicated iDRAC direct USB</p> <p>1 x USB 2.0</p> <p>1 x USB 3.0 (optional)</p> <p>1 x Video</p>

	<p><b>Rear Ports</b></p> <p>1 x Dedicated iDRAC network port</p> <p>1 x Serial</p> <p>2 x USB 3.0</p> <p>1 x Video</p>
<b>Storage</b>	<p><b>Front Bays</b></p> <p>Up to 10 x 2.5" with up to 8 NVMe, SAS/SATA/SSD/NVMe, max 76.8TB</p> <p>Up to 10 NVMe, max 64TB</p> <p>Up to 4 x 3.5" SAS/SATA, max 56TB</p> <p><b>Rear Bays</b></p> <p>Up to 2 x 2.5" SAS/SATA/SSD/NVMe, max 15.36TB</p>
<b>Slots</b>	<p><b>PCIe</b></p> <p>3 x Gen3 slots (all x16)</p> <p><b>Video Card</b></p> <p>1 x VGA</p>

**ORDERING INFORMATION**

<b>Name</b>	<b>Short description</b>
<a href="#">Dell PowerEdge R640</a> <a href="#">3204/8G/600G SAS</a> <a href="#">10K/H330/DVDRW/495W/2.5-8</a> <a href="#">Server</a>	<p>Dell PowerEdge R640 Server, 1U Chassis, 3104 Processor, 8G*1 Memory, 600G SAS 10K*1, H330, DVDRW, 495W*1 Power Supply, 2.5inch Hard Drive-8</p>

<a href="#"><u>Dell PowerEdge R640</u></a> <a href="#"><u>3106/8G/600G SAS</u></a> <a href="#"><u>10K/H330/DVDRW/495W/2.5-8</u></a> <a href="#"><u>Server</u></a>	Dell PowerEdge R640 Server, 1U Chassis, 3106 Processor, 8G*1 Memory, 600G SAS 10K*1, H330, DVDRW, 495W*1 Power Supply, 2.5inch Hard Drive-8
<a href="#"><u>Dell PowerEdge R640</u></a> <a href="#"><u>4110/8G/600G SAS</u></a> <a href="#"><u>10K/H330/DVDRW/495W/2.5-8</u></a> <a href="#"><u>Server</u></a>	Dell PowerEdge R640 Server, 1U Chassis, 4110 Processor, 8G*1 Memory, 600G SAS 10K*1, H330, DVDRW, 495W*1 Power Supply, 2.5inch Hard Drive-8
<a href="#"><u>Dell PowerEdge R640</u></a> <a href="#"><u>4114/8G/600G SAS</u></a> <a href="#"><u>10K/H330/DVDRW/495W/2.5-8</u></a> <a href="#"><u>Server</u></a>	Dell PowerEdge R640 Server, 1U Chassis, 4114 Processor, 8G*1 Memory, 600G SAS 10K*1, H330, DVDRW, 495W*1 Power Supply, 2.5inch Hard Drive-8
<a href="#"><u>Dell PowerEdge R640</u></a> <a href="#"><u>5115/8G/600G SAS</u></a> <a href="#"><u>10K/H330/DVDRW/495W/2.5-8</u></a> <a href="#"><u>Server</u></a>	Dell PowerEdge R640 Server, 1U Chassis, 5115 Processor, 8G*1 Memory, 600G SAS 10K*1, H330, DVDRW, 495W*1 Power Supply, 2.5inch Hard Drive-8
<a href="#"><u>Dell PowerEdge R640</u></a> <a href="#"><u>5118/8G/600G SAS</u></a> <a href="#"><u>10K/H330/DVDRW/495W/2.5-8</u></a> <a href="#"><u>Server</u></a>	Dell PowerEdge R640 Server, 1U Chassis, 5118 Processor, 8G*1 Memory, 600G SAS 10K*1, H330, DVDRW, 495W*1 Power Supply, 2.5inch Hard Drive-8
<a href="#"><u>DELI R640 Bronze 3204*1/2*8GB</u></a> <a href="#"><u>DDR4 2666/2*600GB SAS 2.5</u></a> <a href="#"><u>10K/H330/DVD/4*1GE/495</u></a>	DELI R640 Bronze 3204*1/2*8GB DDR4 2666/2*600GB SAS 2.5 10K/H330/DVD/4*1GE/495



## WHERE TO BUY

### Want to buy this series of products? please contact:

- Tel: +1-626-239-8066 (USA) +852-3050-1066 / +852-3174-6166
- Fax: +852-3050-1066 (Hong Kong)
- Email: [sales@router-switch.com](mailto:sales@router-switch.com) (Sales Inquiries)

Or visit: [Dell PowerEdge R640 Servers](#)

### About us

Router-switch.com, founded in 2002, is one of the biggest Global Network Hardware Supplier. We are a leading provider of network products with 16,000+ customers in over 200 countries. We provide original new and used network equipments ([Cisco](#), [Huawei](#), [HPE](#), [Dell](#), [Juniper](#), [Fortinet](#), [Dahua](#), etc.), including Routers, Switches, Servers, Storage, Telepresence and Videoconferencing, IP Phones, Firewalls, IP Cameras, Wireless APs & Controllers, EHWIC/HWIC/VWIC Cards, SFPs, Memory & Flash, Hard Disk, Cables, and all kinds of network solutions related products.

## SOURCES

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