



DELL EMC POWEREDGE OEM R640 CARRIER GRADE

As IT and Operational Technologies converge, communications service providers are evaluating their infrastructures as they face into the cutting edge of the digital transformation. Dell EMC is uniquely positioned to help both service providers and network equipment providers (NEPs) succeed. By working closely with customers to fully understand their needs, Dell EMC delivers partnership and collaboration to our customers, globally.

Telecom server solution

NEBS compliance is an important requirement in your environment. As a recognized global leader in enterprise platforms, Dell OEM Solutions offers NEBS Level-3 and ETSI compliant PowerEdge™ Carrier Grade Servers running on Intel® Xeon® Processors at world class high standards of stability and global availability. Our rack mount systems are designed to deliver high performance, maximum scalability, and safe and reliable service.

Dell EMC's 14th Generations PowerEdge Carrier Grade Servers for OEM offer:

- Open standard systems.
 - Improved compatibility based on industry-leading Dell EMC products
 - Rapidly scalable and easily expandable
 - Image compatibility with standard, OEM Ready and OEM XL product equivalents reduces development, validation and support
- Industry standards Solutions.
 - Validated to NEBS Level 3 standards (GR-63 and GR-1089) and various ETSI standards
 - Enabled for operation in warmer environments than traditional data centers
 - Designed for extreme conditions such as high humidity, earthquakes and dust
- Global regulatory support and availability.

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.

Additional Features

- Combine density, performance and scalability to optimize application performance.
- Manage your clients more efficiently with industry-leading support.
- Simplify the distribution and maintenance of customized BIOS settings with Identity Module.
- Plan your resources and manage your product lifecycles better with Dell EMC's latest XL program, offering enhanced predictability around your hardware configurations.
- Ensure server security from factory to you.
 - Rely on a secure component supply chain to ensure protection from factory to the data center.
 - Maintain data safety with cryptographically signed firmware packages and Secure Boot.
 - Prevent unauthorized or malicious change with Server Lockdown.
 - Wipe all data from non-volatile media including hard drives, SSDs and system memory quickly and securely with SystemErase.

PowerEdge R640 Carrier Grade

- NEBS Level 3 and ETSI validated
- Commercial off the shelf hardware with OEM-specific features
- Comprehensive, global availability, service and support

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Feature	Technical Specification												
Processor Available for entire lifecycle	2x up to 130W Intel® Xeon® SP processors: <table border="0"> <tr> <td>Intel Xeon Gold 6138</td> <td>Intel Xeon Gold 5118</td> </tr> <tr> <td>Intel Xeon Gold 6134</td> <td>Intel Xeon Silver 4116</td> </tr> <tr> <td>Intel Xeon Gold 6128</td> <td>Intel Xeon Silver 4114</td> </tr> <tr> <td>Intel Xeon Gold 6126</td> <td>Intel Xeon Silver 4112</td> </tr> <tr> <td>Intel Xeon Gold 5122</td> <td>Intel Xeon Silver 4110</td> </tr> <tr> <td>Intel Xeon Gold 5120T</td> <td>Intel Xeon Bronze 3106</td> </tr> </table>	Intel Xeon Gold 6138	Intel Xeon Gold 5118	Intel Xeon Gold 6134	Intel Xeon Silver 4116	Intel Xeon Gold 6128	Intel Xeon Silver 4114	Intel Xeon Gold 6126	Intel Xeon Silver 4112	Intel Xeon Gold 5122	Intel Xeon Silver 4110	Intel Xeon Gold 5120T	Intel Xeon Bronze 3106
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Memory¹	24 DDR4 DIMM slots supporting RDIMM, speeds up to 2666, 768GB max 8GB, 16GB, 32GB capacities supported												
Storage controllers	Internal controllers: PERC H330, PERC H730p, PERC H740p, Software RAID S140 External PERC: H840												
Drive bays	Front drive bays: Up to 10 x 2.5" SAS HDD, or SAS or SATA SSD, max 38TB Up to 4 x 3.5" SAS HDD, max 40TB Rear bays: Up to 2 x 2.5" SSD, max 7.6TB												
Power supplies	Titanium redundant hot swap 1100W DC or 1100W AC power supplies												
Sizing	Form factor: Rack (1U) Chassis depth: 705.05 mm												
Embedded management	IPMI 2.0 compliant iDRAC9 with Lifecycle Controller (Express, Enterprise)												
Bezel	Filtered, Dell EMC branded												
Identity Module	Carrier Grade thermal tables/fan algorithms, Carrier Grade SMBIOS strings												
OpenManage™ Software	OpenManage Enterprise OpenManage Mobile OpenManage Essentials OpenManage Power Center												
Integrations and connections	Integrations: Microsoft® System Center, VMWare® vCenter™, BMC Software HP Operations Manager Connections: Nagios & Nagios XI, Oracle Enterprise Manager IBM Tivoli® Netcool/OMNIBus CA Network and Systems Management												
Security	TPM 1.2/2.0 optional System Lockdown Cryptographically signed firmware Secure Erase Secure Boot												
Embedded NIC Options	Network daughter card options: 2 x 10GE + 2 x 1GE or 4 x 10GE Intel X550 2 x 10Gb Base-T + I350 2x1Gb Base-T Intel X550 4 x 10GbE, Base-T Intel X710 2 x 10Gb DA/SFP+, + I350 2x1Gb Intel X710 4 x 10Gb DA/SFP+												
I/O Adapter Options	Additional network card options: 4 x 1GE or 2 x 10GE or 4 x 10GE or 2 x 25GE Intel Ethernet I350 4 x 1Gb Intel X550 2 x 10G Base-T Intel X710 4 x 10GbE, Base-T												
Ports	Front ports: Video, 1 x USB 2.0, available USB 3.0, dedicated iDRAC Direct Micro-USB Rear ports: Video, serial, 2 x USB 3.0, dedicated iDRAC network port Video card: VGA PCIe: Up to 3 x Gen3 slots all x16												
Rack rail support	ReadyRails™ Sliding Rails												
Environmental specs (NEBS Level-3 and ETSI)	Temperature	Continuous operating temperature of -5C to 40C; 96 hour operating excursions from -5C to 55C											
	Humidity	Operating Humidity of 5% to 85% with excursions of 5% to 90%, but not to exceed 0.24 kg water/kg of dry air											
	Altitude	Up to 4000m; Sea Level -60M to 1800M; -61m to 1829m at 40C; from 1829M to 3960m at 30C											
	Dust	Dust filter rated 80% per ASHRAE Std 52.1											
	Seismic	Operational resiliency up to Richter 7.5 seismic event (Zone 4 seismic event)											
	EMI	Immunity up to 8kV/15kV or air/contact											
	Fire resistance	Built with fire retardant material to contain and extinguish fire if any occurs inside the box											

Learn more at DellEMC.com/OEM