POWEREDGE C6525

Ideal for High Performance Dense-Computing environments

The new Dell EMC PowerEdge C6525 is a compute-dense server designed to boost data center performance to tackle a variety of High Performance Computing (HPC) workloads and applications.

Deliver breakthrough performance, innovations and density for traditional and emerging workloads

The new Dell EMC PowerEdge C6525 is a compute-dense server designed to boost data center performance to tackle a variety of High Performance Computing (HPC) workload and applications. High-level features:

• Up to 512 processing cores in a 2U dense server - The most available processing cores of any 2U Dell EMC PowerEdge server
• Up to 3200MT/s memory speed to reduce latency and deliver faster response
• Faster data transfer speeds with PCIe Gen 4
• Optimized core count and memory for large datasets
• Low latency and flexible high speed fabric for highly performant clusters
• Cost optimized design with rich single-socket configurations

Increase efficiency and accelerate operations with an automated infrastructure

The Dell EMC OpenManage™ systems management portfolio delivers an efficient and comprehensive solution for PowerEdge servers through tailored, automated, and repeatable processes.

• Automate server life cycle management with scripting via the iDRAC Restful API with Redfish conformance.
• Simplify and centralize one to many management with the OpenManage Enterprise console.
• Utilize the OpenManage Mobile app to easily manage servers using a phone or tablet.
• Resolve issues with up to 72% less IT effort using automated proactive and predictive technology from ProSupport Plus and SupportAssist.**

Fortify your data center with integrated security

Every PowerEdge server is designed with a cyber resilient architecture, integrating security deeply into every phase in the lifecycle, from design to retirement.

• Enhance security with platform enablement of AMD Secure Memory Encryption (SME) and Secure Encrypted Virtualization (SEV).
• Operate your workloads on a secure platform anchored by cryptographically trusted booting and silicon root of trust.
• Maintain server firmware safety with digitally signed firmware packages.
• Detect and remediate unauthorized or malicious change with drift detection and system lockdown.
• Securely and quickly wipe all data from storage media including hard drives, SSDs and system memory with System Erase.


C6525 Spec Sheet
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# PowerEdge C6525

## Technical Specification

<table>
<thead>
<tr>
<th>Features</th>
<th>Technical Specification</th>
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</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>One or two 2nd Generation AMD EPYC™ Processors per node configurations with up to 64 cores per processor and up to 225W (TDP)</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>Up to 16 x DDR4 RDIMM 2TB Max LRDIMM 2TB Max Bandwidth up to 3200 MT/S</td>
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<tr>
<td><strong>Availability</strong></td>
<td>Hot plug redundant Hard drives, Fans, PSUs</td>
</tr>
<tr>
<td><strong>Controllers</strong></td>
<td>HW RAID: PERC 10.4 port for H745, H345, HBA345 Chipset SW RAID (S150): Yes</td>
</tr>
<tr>
<td><strong>Drive Bays</strong></td>
<td>2.5&quot; Direct Backplane configuration with up to 6 SAS/SATA drives per node, up to 24 per chassis 2.5&quot; NVMe Backplane configuration with up to 2 NVMe drives and 4 SAS/SATA drives per node. Up to 24 drives total per chassis 3.5&quot; Direct Backplane configuration with up to 3 SAS/SATA drives per node, up to 12 per chassis Internal: uSD card</td>
</tr>
<tr>
<td><strong>Power Supplies</strong></td>
<td>Dual Hot-plug redundant 1600W and 2400W AC Power Supply Dual Hot-plug redundant 2000W AC/DC Mixmode Power Supply Cooling options: Air Cooling, Direct Liquid Cooling (DLC)</td>
</tr>
<tr>
<td><strong>Fans</strong></td>
<td>Hot plug Fans</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Height: 86.8mm (3.4&quot;) Width: 448.0mm (17.6&quot;) Depth: 790.0mm (31.1&quot;)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>45.53kg (100.3lbs) 3.5&quot; direct backplane chassis 41.5kg (91.4lbs) 2.5&quot; direct/NVMe backplane chassis 35.15kg (77.4lbs) no backplane chassis</td>
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<tr>
<td><strong>Rack Units</strong></td>
<td>2U Rack Server</td>
</tr>
<tr>
<td><strong>Embedded mgmt</strong></td>
<td>IDRAC9 IDRAC RESTful API with Redfish IDRAC Direct</td>
</tr>
<tr>
<td><strong>OpenManage™ SW</strong></td>
<td>OpenManage Enterprise OpenManage Enterprise Power Manager OpenManage Mobile</td>
</tr>
<tr>
<td><strong>Integrations &amp; Connections</strong></td>
<td>OpenManage Integrations BMC Truesight Microsoft® System Center Redhat® Andible® Modules VMware® vCenter™ OpenManage Connections IBM Tivoli® Netcool/OMNibus IBM Tivoli® Network Manager IP Edition Micro Focus® Operations Manager I Nagios® Core Nagios® XI</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Cryptographically signed firmware Secure Boot Secure Erase Silicon Root of Trust System Lockdown TPM 1.2/2.0, TCM 2.0 optional</td>
</tr>
<tr>
<td><strong>Embedded NIC</strong></td>
<td>Single port 1GbE LOM</td>
</tr>
<tr>
<td><strong>Networking Options (NDC)</strong></td>
<td>1x OCP 3.0</td>
</tr>
<tr>
<td><strong>GPU Options</strong></td>
<td>1x Single-Wide GPU</td>
</tr>
</tbody>
</table>
### PowerEdge C6525

#### Features | Technical Specification
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**Ports** | Rear Ports:
1 x iDRAC Direct micro-USB port
1 x Mini-display port
1 x iDRAC or NIC port
1 x USB 3.0 port
**PCIe** | 2x PCIe x16 Gen4 Risers
1x OCP 3.0 x16 Gen4
1x PCIe x8 Gen3 M.2 Riser
**Operating Systems & Hypervisors** | Canonical® Ubuntu® Server LTS
CentOS based on RHEL 8.0 Kernel
Citrix® Hypervisor™
Microsoft® Windows Server® with Hyper-V
Red Hat® Enterprise Linux
SUSE® Linux Enterprise Server
VMware® ESXi™
**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](http://Dell.com/OEM).
**Recommended support** | Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit [Dell.com/ServiceDescriptions](http://Dell.com/ServiceDescriptions).
**Recommended services** | ProSupport Plus with SupportAssist provides proactive and predictive support for critical systems. ProSupport provides comprehensive hardware and software support. Get more from your technology starting on day one with ProDeploy Enterprise Suite deployment offers. For more information, visit [Dell.com/Services](http://Dell.com/Services).

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