The Dell EMC VxRail™ Appliance, the exclusive hyper-converged infrastructure appliance from Dell EMC and VMware, is the easiest and fastest way to extend and simplify a VMware environment. Powered by VMware vSAN™ and managed through the vCenter interface, the Dell EMC VxRail Appliance provides existing VMware customers an experience with which they are already familiar. Seamless integration with existing VMware tools, such as vRealize Operations, also lets customers leverage and extend their current IT tools and processes.

The Dell EMC VxRail Appliance architecture is a distributed system consisting of common modular building blocks that scale linearly from 3 to 64 nodes in a cluster. With the power of a whole Storage Area Network (SAN), it provides a simple, cost-effective hyper-converged solution that delivers multiple compute, memory, storage, network and graphics options to match any use case and cover a wide variety of applications and workloads.

Based on industry-leading VMware vSAN and vSphere software and built with 5th generation Intel™ Xeon™ processors, the Dell EMC VxRail Appliance allows customers to start small and grow, scaling capacity and performance easily and non-disruptively. Single-node scaling and storage capacity expansion provide a predictable, "pay-as-you-grow" approach for future growth as needed.

The Dell EMC VxRail Appliance comes stacked with mission-critical data services at no additional charge. Data protection technology including Dell EMC RecoverPoint for VMs and VMware vSphere Data Protection are incorporated into the appliance, with the option of adding Data Protection Suite for VMware and Data Domain Virtual Edition (DD VE) for larger environments that require more comprehensive data protection. Dell EMC CloudArray is also built in to seamlessly extend the Dell EMC VxRail Appliance to public and private clouds to securely expand storage capacity without limits, providing additional on-demand cloud tiering included.

The Dell EMC VxRail Appliance is also backed by Dell EMC’s world-class support with a single point of contact for both hardware and software, and includes Dell EMC ESRS for call-home and proactive two-way remote connection for remote monitoring, diagnosis, and repair to ensure maximum availability.

Detailed specifications and a comparison of the Dell EMC VxRail Appliances follows.
# DELL EMC VXRAIL APPLIANCE SPECIFICATIONS

## G SERIES

**Chassis** 2U4N  
**Processor** 5th generation Intel® Xeon® E5-2600 Family  
**CPU sockets** Single or Dual  
**CPU cores** 8 – 32  
**CPU frequency** 1.7 GHz – 2.4 GHz  
**RAM** 64 GB – 512 GB  
**Cache SSD** 200 GB – 800 GB  
**Hybrid storage** 3.6 TB – 10 TB  
**All-flash storage** 3.84 TB – 19.2 TB  
**Drive bays** 6 x 2.5"  
**Max disk groups** 1  
**Max PCIe GPUs** n/a  
**Appliance connectivity** 2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*  
**Management port** 1x100 Mb RJ45 BMC  
**Optional connectivity** (Max additional ports) n/a  

## E SERIES

**Chassis** 1U1N  
**Processor**  
**CPU sockets** Single or Dual  
**CPU cores** 6 – 40  
**CPU frequency** 1.7 GHz – 2.6 GHz  
**RAM** 64 GB – 1536 GB  
**Cache SSD** 400 GB – 1600 GB*  
**Hybrid storage** 1.2 TB – 16 TB  
**All-flash storage** 1.92 TB – 30.7 TB  
**Drive bays** 10 x 2.5"  
**Max disk groups** 2  
**Max PCIe GPUs** n/a  
**Appliance connectivity** 2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*  
**Management port** 1x1 GbE iDRAC8 Enterprise RJ45  
**Optional connectivity** (Max additional ports) Up to 6x10 GbE RJ45 or Up to 6x10 GbE SFP+  

## V SERIES

**Chassis** 2U1N  
**Processor**  
**CPU sockets** Dual  
**CPU cores** 16 – 40  
**CPU frequency** 2.0 GHz – 3.2 GHz  
**RAM** 128 GB – 1024 GB  
**Cache SSD** 400 GB – 1600 GB*  
**Hybrid storage** 1.2 TB – 24 TB  
**All-flash storage** 1.92 TB – 46 TB  
**Drive bays** 16 x 2.5"  
**Max disk groups** 4  
**Max PCIe GPUs** n/a  
**Appliance connectivity** 2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*  
**Management port** 1x1 GbE iDRAC8 Enterprise RJ45  
**Optional connectivity** (Max additional ports) Up to 6x10 GbE RJ45 or Up to 6x10 GbE SFP+  

## P SERIES

**Chassis** 2U1N  
**Processor**  
**CPU sockets** Single or Dual  
**CPU cores** 8 – 44  
**CPU frequency** 2.0 GHz – 3.5 GHz  
**RAM** 128 GB – 1536 GB  
**Cache SSD** 400 GB – 1600 GB*  
**Hybrid storage** 1.2 TB – 24 TB  
**All-flash storage** 1.92 TB – 46 TB  
**Drive bays** 16 x 2.5"  
**Max disk groups** 4  
**Max PCIe GPUs** n/a  
**Appliance connectivity** 2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*  
**Management port** 1x1 GbE iDRAC8 Enterprise RJ45  
**Optional connectivity** (Max additional ports) Up to 12x10 GbE RJ45 or Up to 12x10 GbE SFP+  

## S SERIES

**Chassis** 2U1N  
**Processor**  
**CPU sockets** Single or Dual  
**CPU cores** 6 – 36  
**CPU frequency** 1.7 GHz – 2.4 GHz  
**RAM** 64 GB – 1536 GB  
**Cache SSD** 400 GB – 1600 GB*  
**Hybrid storage** 4 TB – 48 TB  
**All-flash storage** 4 TB – 48 TB  
**Drive bays** 12 x 3.5" and 2 x 2.5"  
**Max disk groups** 2  
**Max PCIe GPUs** n/a  
**Appliance connectivity** 2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*  
**Management port** 1x1 GbE iDRAC8 Enterprise RJ45  
**Optional connectivity** (Max additional ports) Up to 12x10 GbE RJ45 or Up to 12x10 GbE SFP+  

*1600 GB cache SSD only in hybrid configurations.

### Clustering and scaling

<table>
<thead>
<tr>
<th>Max nodes* (per cluster)</th>
<th>G SERIES</th>
<th>E SERIES</th>
<th>V SERIES</th>
<th>P SERIES</th>
<th>S SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>64</td>
<td>64</td>
<td>64</td>
<td>64</td>
<td>64</td>
</tr>
<tr>
<td>Min nodes (per cluster)</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Scaling increment (in nodes)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

*8 nodes maximum per cluster in 1 GbE models.

### Networking (per node)

<table>
<thead>
<tr>
<th>Appliance connectivity</th>
<th>G SERIES</th>
<th>E SERIES</th>
<th>V SERIES</th>
<th>P SERIES</th>
<th>S SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*</td>
<td>2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*</td>
<td>2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*</td>
<td>2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*</td>
<td>2x10 GbE RJ45 or 2x10 GbE SFP+ or 4x1 GbE RJ45*</td>
<td></td>
</tr>
<tr>
<td>Management port</td>
<td>1x1 GbE iDRAC8 Enterprise RJ45</td>
<td>1x1 GbE iDRAC8 Enterprise RJ45</td>
<td>1x1 GbE iDRAC8 Enterprise RJ45</td>
<td>1x1 GbE iDRAC8 Enterprise RJ45</td>
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</tr>
</tbody>
</table>

*4x1GbE RJ45 only on single CPU nodes.
## DELL EMC VXRAIL APPLIANCE SPECIFICATIONS

### Power and dimensions

<table>
<thead>
<tr>
<th></th>
<th>G SERIES</th>
<th>E SERIES</th>
<th>V SERIES</th>
<th>P SERIES</th>
<th>S SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power input</strong></td>
<td>110V/220V AC</td>
<td>100V/240V AC</td>
<td>100V/240V AC</td>
<td>100V/240V AC</td>
<td>100V/240V AC</td>
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<tr>
<td></td>
<td>Dual CPU 220V only</td>
<td>48V DC</td>
<td>48V DC</td>
<td>48V DC</td>
<td>48V DC</td>
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<tr>
<td><strong>High-efficiency dual redundant PSU</strong></td>
<td>1200W/1600W AC</td>
<td>1100W AC</td>
<td>1100W AC</td>
<td>1100W AC</td>
<td>1100W AC</td>
</tr>
<tr>
<td><strong>Redundant cooling fans</strong></td>
<td>4</td>
<td>7</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td><strong>Physical specifications</strong></td>
<td>87.3mm/3.44in H</td>
<td>42.8mm/1.68in H</td>
<td>87.3mm/3.44in H</td>
<td>87.3mm/3.44in H</td>
<td>87.3mm/3.44in H</td>
</tr>
<tr>
<td></td>
<td>447mm/17.6in W</td>
<td>482.3mm/18.96in W</td>
<td>444mm/17.49in W</td>
<td>444mm/17.49in W</td>
<td>444mm/17.49in W</td>
</tr>
<tr>
<td></td>
<td>774.7mm/30.5in D</td>
<td>755.1mm/29.72in D</td>
<td>684mm/26.92in D</td>
<td>684mm/26.92in D</td>
<td>684mm/26.92in D</td>
</tr>
<tr>
<td></td>
<td>41.42kg/91.31lb</td>
<td>18.5kg/40.79lb</td>
<td>31.4kg/69.23lb</td>
<td>31.4kg/69.23lb</td>
<td>36.5kg/80.47lb</td>
</tr>
</tbody>
</table>

### Environmental and certifications

| **Ambient operating temperature** | 5°C to 35°C (41°F to 95°F) | 10°C to 35°C (5°F to 95°F) | 10°C to 35°C (5°F to 95°F) | 10°C to 35°C (5°F to 95°F) | 10°C to 35°C (5°F to 95°F) |
| **Storage temperature range** | -40°C to +65°C (-40°F to +149°F) | -40°C to +65°C (-40°F to +149°F) | -40°C to +65°C (-40°F to +149°F) | -40°C to +65°C (-40°F to +149°F) | -40°C to +65°C (-40°F to +149°F) |
| **Operating relative humidity** | 20% to 85% (non-condensing) | 10% to 85% (non-condensing) | 10% to 85% (non-condensing) | 10% to 85% (non-condensing) | 10% to 85% (non-condensing) |
| **Operating altitude with no deratings** | 3200m (approx. 10666 ft) | 950m (approx. 3117 ft) | 950m (approx. 3117 ft) | 950m (approx. 3117 ft) | 950m (approx. 3117 ft) |
| **Heat dissipation** | 5071 BTU/hr | 2560 BTU/hr | 3070 BTU/hr | 4970 BTU/hr | 3070 BTU/hr |
| **Certifications** | UL (Covers cUL and does not require CSA), CE, EMC, FCC | | | | |