



# SCALEIO READY NODE HARDWARE SPECIFICATION SHEET

The Dell EMC ScaleIO Ready Node is the validated, pre-configured building block for a software-defined block storage system. It brings together next-generation Dell EMC PowerEdge servers with ScaleIO, the most agile, scalable and performant software-defined storage (SDS) solution for block storage. Combining best-of-breed server hardware and software, ScaleIO Ready Node configurations are built to unleash the power of ScaleIO and provide a fully validated and supported solution. Reducing the time IT organizations spend planning and deploying a new architecture, it is the perfect building block to achieve unprecedented scale, elasticity and performance with unmatched flexibility to grow and adapt to ever-changing business needs

## ScaleIO Ready Node primary features

Each ScaleIO Ready Node consists of:

- Full production version of the latest ScaleIO software (ordered separately)
- Pre-configured Dell EMC PowerEdge R630, R640, R730xd or R740xd rack servers with Dell iDRAC8 or Dell iDRAC9
- Storage-only or hyper-converged configuration options
- Tuned and optimized Dell EMC PowerEdge servers configurations

Systems built with ScaleIO Ready Nodes consist of:

- A minimum of 3 nodes per cluster, with an ability to increase in 1-node increments
- Maximum node count of 1024 nodes per cluster

	14G ScaleIO Ready Node		13G ScaleIO Ready Node	
	HIGH-DENSITY	HIGH-CAPACITY	HIGH-DENSITY	HIGH-CAPACITY
	Dell EMC PowerEdge R640	Dell EMC PowerEdge R740xd	Dell EMC PowerEdge R630R640	Dell EMC PowerEdge R730xd
	1U1N 1 node within a 1RU enclosure 8/10 drive slots	2U1N 1 node within a 2RU enclosure 24/32 drive slots	1U1N 1 node within a 1RU enclosure 10 drive slots	2U1N 1 node within a 2RU enclosure 24 drive slots
Hyper-converged	All-flash, all-HDD or hybrid	All-flash, All-HDD or hybrid	All-flash (support designation DC200-F, DC200)	All-flash (support designation CC200-F, CC200)
Storage-only	All-flash, all-HDD, or hybrid	All-flash, all-HDD, or hybrid	All-flash or all-HDD, (support designation DS200-F, DS200)	All-flash or all-HDD, (support designation CS200-F, CS200)
Compute-only	All-flash			

## SCALEIO READY NODE HIGH-DENSITY CONFIGURATIONS – POWEREDGE R640

High-density PowerEdge R640 servers, optimized to run ScaleIO, maximize rack density and storage flexibility. Server details include:

*Note: Below information provides min / max and actual specs are dependent upon the specific configurations selected.*

<b>Models:</b>	<u>Storage-only</u> <ul style="list-style-type: none"> <li>All-flash: R640-SIO-S-F</li> <li>All-HDD: R640-SIO-S-H</li> <li>Hybrid: R640-SIO-S-M</li> </ul>	<u>Hyper-converged</u> <ul style="list-style-type: none"> <li>All-flash: R630-SIO-HC-F</li> <li>All-HDD: R640-SIO-HC-H</li> <li>Hybrid: R640-SIO-HC-M</li> </ul>	<u>Compute-only</u> <ul style="list-style-type: none"> <li>All-flash: R640-SIO-C-F</li> </ul>																								
<b>Chassis:</b>	<ul style="list-style-type: none"> <li>PowerEdge R640. 1U1N = 1 node within a 1U enclosure</li> </ul>																										
<b>Drives:</b>	<ul style="list-style-type: none"> <li>10, 2.5" drives per node, consisting of SAS/SATA SSDs or HDDs</li> <li>8, 2.5" drives per node, consisting of SAS/SATA/NVMe SSDs or HDDs</li> </ul>																										
<b>RAID Controller:</b> (12GB/s SAS interface)	<ul style="list-style-type: none"> <li>Dell PowerEdge PERC H730p for all-HDD and hybrid nodes</li> <li>Dell PowerEdge PERC H330 for compute-only nodes</li> <li>Dell PowerEdge HBA330 for all-flash nodes</li> </ul>																										
<b>Boot drive:</b>	Boot Optimized Storage Solution (BOSS), 2x 120GB 110mm M.2 SATA devices in Single PCIe Gen 3 host interface																										
<b>Power:</b>	<ul style="list-style-type: none"> <li><u>Heat Load:</u> 2891 – 6000 BTU / hr.</li> <li><u>Power:</u> 750 – 1600 W</li> <li><u>Input Voltage:</u> 100 – 240 V AC power</li> <li><u>Frequency:</u> 50 – 60 Hz</li> </ul>																										
<b>Dimensions:</b> (without Bezel)	10, 2.5" drives: <ul style="list-style-type: none"> <li><u>Width:</u> 482 mm / 18.97 in / 48.2 cm</li> <li><u>Height:</u> 42.8 mm / 1.7 in / 4.32 cm</li> <li><u>Depth:</u> 772.67 mm / 30.42 in / 77.27 cm</li> <li><u>Maximum Weight:</u> 48.28 lbs. / 21.9 kg</li> </ul>	8, 2.5" drives: <ul style="list-style-type: none"> <li><u>Width:</u> 482 mm / 18.97 in / 48.2 cm</li> <li><u>Height:</u> 42.8 mm / 1.7 in / 4.32 cm</li> <li><u>Depth:</u> 721.91 mm / 28.42 in / 72.19 cm</li> <li><u>Maximum Weight:</u> 48.28 lbs. / 21.9 kg</li> </ul>																									
<b>Environmental:</b>	<ul style="list-style-type: none"> <li>Operating Temperature: Up to 35°C (95°F)</li> <li>Relative Humidity: 10 - 80% RH</li> </ul>																										
<b>Configuration Options:</b>	<ul style="list-style-type: none"> <li><u>Networking:</u> <ul style="list-style-type: none"> <li>Single-processor configs               <ul style="list-style-type: none"> <li>1 onboard Network Daughter Card + 1 PCIe NIC</li> <li>4x 10/25GbE ports</li> </ul> </li> <li>Dual-processor configs               <ul style="list-style-type: none"> <li>1 onboard Network Daughter Card + 2 PCIe NICs</li> <li>2x 10GbE ports + 2x 1GbE + 4x 10/25GbE ports</li> </ul> </li> <li>NIC options: 10 GbE Intel X710 network daughter cards, 10/25 GbE Mellanox ConnectX-4 Network Daughter Cards and PCIe NICs</li> </ul> </li> <li><u>Storage-only Configurations:</u> <ul style="list-style-type: none"> <li>Processor:               <ul style="list-style-type: none"> <li>1x or 2x Skylake 6126 CPUs</li> </ul> </li> <li>Memory:               <ul style="list-style-type: none"> <li>Total memory 48 GB – 384GB</li> </ul> </li> </ul> </li> </ul> <table border="1"> <thead> <tr> <th></th> <th>Memory (RDIMM/LRDIMM)</th> <th>Memory (NVDIMM)</th> <th>Memory (Total)</th> </tr> </thead> <tbody> <tr> <td>NVDIMM configs (2 CPU only)</td> <td>192 GB (RDIMM only)</td> <td>32 GB – 192 GB</td> <td>224 GB – 384 GB (2CPU)</td> </tr> <tr> <td>No-NVDIMM configs</td> <td>48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)</td> <td>0</td> <td>48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li><u>Hyper-converged Configurations:</u> <ul style="list-style-type: none"> <li>Processor:               <ul style="list-style-type: none"> <li>2x Skylake 6xxx/8xxx CPUs</li> </ul> </li> <li>Memory:               <ul style="list-style-type: none"> <li>Total memory 192 GB - 3TB</li> </ul> </li> </ul> </li> </ul> <table border="1"> <thead> <tr> <th></th> <th>Memory (RDIMM/LRDIMM)</th> <th>Memory (NVDIMM)</th> <th>Memory (Total)</th> </tr> </thead> <tbody> <tr> <td>NVDIMM configs</td> <td>192 GB – 704 GB (RDIMM only)</td> <td>32 GB – 192 GB</td> <td>224 GB – 736 GB</td> </tr> <tr> <td>No-NVDIMM configs</td> <td>192 GB – 3 TB</td> <td>0</td> <td>192 GB – 3 TB</td> </tr> </tbody> </table>				Memory (RDIMM/LRDIMM)	Memory (NVDIMM)	Memory (Total)	NVDIMM configs (2 CPU only)	192 GB (RDIMM only)	32 GB – 192 GB	224 GB – 384 GB (2CPU)	No-NVDIMM configs	48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)	0	48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)		Memory (RDIMM/LRDIMM)	Memory (NVDIMM)	Memory (Total)	NVDIMM configs	192 GB – 704 GB (RDIMM only)	32 GB – 192 GB	224 GB – 736 GB	No-NVDIMM configs	192 GB – 3 TB	0	192 GB – 3 TB
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## SCALEIO READY NODE HIGH-DENSITY CONFIGURATIONS – POWEREDGE R640 - Continued

<b>Configuration Options:</b>	<ul style="list-style-type: none"> <li>• <u>Compute-only Configurations:</u> <ul style="list-style-type: none"> <li>○ Processor:                             <ul style="list-style-type: none"> <li>▪ 2x Skylake 6xxx/8xxx CPUs</li> </ul> </li> <li>○ Memory:                             <ul style="list-style-type: none"> <li>▪ Total memory 192 GB – 3 TB</li> </ul> </li> </ul> </li> </ul>			
		Memory (RDIMM/LRDIMM)	Memory (NVDIMM)	Memory (Total)
	NVDIMM configs	192 GB – 704 GB (RDIMM only)	32 GB – 192 GB	224 GB – 736 GB
No-NVDIMM configs	192 GB – 3 TB	0	192 GB – 3 TB	

### SCALEIO READY NODE MANAGEMENT SERVER – POWEREDGE R640

Note: Below information provides min / max and actual specs are dependent upon the specific configurations selected.

<b>Model:</b>	R640-SIO-MGNT
<b>Chassis:</b>	<ul style="list-style-type: none"> <li>• PowerEdge R640. 1U1N = 1 node within a 1U enclosure</li> </ul>
<b>Drives:</b>	<ul style="list-style-type: none"> <li>• 10, 2.5" drives per node, consisting of SAS/SATA SSDs or HDDs</li> </ul>
<b>RAID Controller:</b>	No storage drives; no RAID controller
<b>Boot Drive:</b>	Boot Optimized Storage Solution (BOSS), 2x 120GB 110mm M.2 SATA devices in Single PCIe Gen 3 host interface
<b>Power:</b>	<ul style="list-style-type: none"> <li>• <u>Heat Load:</u> 2891 - 6000 BTU / hr.</li> <li>• <u>Power:</u> 750 - 1600 W</li> <li>• <u>Input Voltage:</u> 100 - 240 V AC power</li> <li>• <u>Frequency:</u> 50 - 60 Hz</li> </ul>
<b>Dimensions:</b> (without Bezel)	<ul style="list-style-type: none"> <li>• <u>Width:</u> 482 mm / 18.97 in / 48.2 cm</li> <li>• <u>Height:</u> 42.8 mm / 1.7 in / 4.32 cm</li> <li>• <u>Depth:</u> 772.67 mm / 30.42 in / 77.27 cm</li> <li>• <u>Maximum Weight:</u> 48.28 lbs. / 21.9 kg</li> </ul>
<b>Environment:</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: Up to 35°C (95°F)</li> <li>• Relative Humidity: 10 - 80% RH</li> </ul>
<b>Configuration Options:</b>	<ul style="list-style-type: none"> <li>• <u>Networking:</u> <ul style="list-style-type: none"> <li>○ 10 GbE Intel X710 SFP++ Dual port 1GbE -1 Network Daughter Card (Onboard NIC)</li> </ul> </li> <li>• <u>Processor:</u> <ul style="list-style-type: none"> <li>○ 1x Skylake 6126 CPUs</li> </ul> </li> <li>• <u>Memory:</u> <ul style="list-style-type: none"> <li>○ Total memory 48 GB – 128 GB, no NVDIMM</li> </ul> </li> </ul>

## SCALEIO READY NODE HIGH-DENSITY CONFIGURATIONS – POWEREDGE R740XD

High-capacity PowerEdge R740xd servers, optimized to run ScaleIO, to maximize storage efficiency. Server details include:

Note: Below information provides min / max and actual specs are dependent upon the specific configurations selected.

<b>Models:</b>	<u>Storage-only</u> <ul style="list-style-type: none"> <li>All-flash: R740XD-SIO-S-F</li> <li>All-HDD: R740XD-SIO-S-H</li> <li>Hybrid: R740XD-SIO-S-M</li> </ul>	<u>Hyper-converged</u> <ul style="list-style-type: none"> <li>All-flash: R740XD-SIO-HC-F</li> <li>All-HDD: R740XD-SIO-HC-H</li> <li>Hybrid: R740XD-SIO-HC-M</li> </ul>																				
<b>Chassis:</b>	<ul style="list-style-type: none"> <li>PowerEdge R740XD. 2U1N = 2 node within a 1U enclosure</li> </ul>																					
<b>Drives:</b>	<ul style="list-style-type: none"> <li>32, 2.5" drives per node, consisting of SAS/SATA SSDs or HDDs</li> <li>24, 2.5" drives per node, consisting of SAS/SATA/NVMe SSDs or HDDs</li> </ul>																					
<b>GPU Cards:</b> <i>Adding GPUs impacts the environmental range</i>	<ul style="list-style-type: none"> <li>GPU options available only on 24 x 2.5" drive chassis</li> <li>Up to 3 single/double wide GPU</li> <li>Nvidia Grid M60, M10</li> </ul>																					
<b>RAID Controller:</b> (12GB/s SAS interface)	<ul style="list-style-type: none"> <li>Dell PowerEdge PERC H730p for all-HDD and hybrid nodes</li> <li>Dell PowerEdge HBA330 for all-flash nodes</li> </ul>																					
<b>Boot drive:</b>	Boot Optimized Storage Solution (BOSS), 2x 120GB 110mm M.2 SATA devices in Single PCIe Gen 3 host interface																					
<b>Power:</b>	<ul style="list-style-type: none"> <li><u>Heat Load:</u> 2891 – 7500 BTU / hr.</li> <li><u>Power:</u> 750 – 2000 W</li> <li><u>Input Voltage:</u> 100 – 240 V AC power</li> <li><u>Frequency:</u> 50 – 60 Hz</li> </ul>																					
<b>Dimensions:</b>	<ul style="list-style-type: none"> <li><u>Width:</u> 482 mm / 18.98 in / 42.8 cm</li> <li><u>Height:</u> 86.8 mm / 3.42 in / 8.68 cm</li> <li><u>Depth:</u> 715.5 mm / 28.17 in / 71.55 cm</li> <li><u>Maximum Weight:</u> 61.95 lbs. / 28.1 kg</li> </ul>																					
<b>Environmental:</b>	<ul style="list-style-type: none"> <li>Operating Temperature: Up to 35°C (95°F)</li> <li>Relative Humidity: 10 - 80% RH</li> </ul>																					
<b>Configuration Options:</b>	<ul style="list-style-type: none"> <li><u>Networking:</u> <ul style="list-style-type: none"> <li>Single-processor and dual-processor configs               <ul style="list-style-type: none"> <li>1 onboard Network Daughter Card + 2 PCIe NIC</li> <li>2x 10GbE ports + 2x 1GbE + 4x 10/25GbE ports</li> </ul> </li> <li>Dual-processor configs with 3 GPUs               <ul style="list-style-type: none"> <li>1 onboard Network Daughter Card only</li> <li>2x 10/25GbE ports</li> </ul> </li> <li>NIC options: 10 GbE Intel X710 network daughter card, 10/25 GbE Mellanox ConnectX-4 Network Daughter Cards and PCIe NICs</li> </ul> </li> <li><u>Storage-only Configurations:</u> <ul style="list-style-type: none"> <li>Processor:               <ul style="list-style-type: none"> <li>1x or 2x Skylake 6126 CPUs</li> </ul> </li> <li>Memory:               <ul style="list-style-type: none"> <li>Total memory 48 GB – 384GB</li> </ul> </li> </ul> </li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Memory (RDIMM/LRDIMM)</th> <th>Memory (NVDIMM)</th> <th>Memory (Total)</th> </tr> </thead> <tbody> <tr> <td>NVDIMM configs (2 CPU only)</td> <td>192 GB (RDIMM only)</td> <td>32 GB – 192 GB</td> <td>224 GB – 384 GB (2CPU)</td> </tr> <tr> <td>No-NVDIMM configs</td> <td>48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)</td> <td>0</td> <td>48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li><u>Hyper-converged Configurations:</u> <ul style="list-style-type: none"> <li>Processor:               <ul style="list-style-type: none"> <li>2x Skylake 6xxx/8xxx CPUs</li> </ul> </li> <li>Memory:               <ul style="list-style-type: none"> <li>Total memory 192 GB - 3TB</li> </ul> </li> </ul> </li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Memory (RDIMM/LRDIMM)</th> <th>Memory (NVDIMM)</th> <th>Memory (Total)</th> </tr> </thead> <tbody> <tr> <td>NVDIMM configs</td> <td>192 GB – 704 GB (RDIMM only)</td> <td>32 GB – 192 GB</td> <td>224 GB – 736 GB</td> </tr> </tbody> </table>			Memory (RDIMM/LRDIMM)	Memory (NVDIMM)	Memory (Total)	NVDIMM configs (2 CPU only)	192 GB (RDIMM only)	32 GB – 192 GB	224 GB – 384 GB (2CPU)	No-NVDIMM configs	48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)	0	48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)		Memory (RDIMM/LRDIMM)	Memory (NVDIMM)	Memory (Total)	NVDIMM configs	192 GB – 704 GB (RDIMM only)	32 GB – 192 GB	224 GB – 736 GB
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NVDIMM configs (2 CPU only)	192 GB (RDIMM only)	32 GB – 192 GB	224 GB – 384 GB (2CPU)																			
No-NVDIMM configs	48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)	0	48 GB–128 GB (1CPU) 96 GB–128 GB (2CPU)																			
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NVDIMM configs	192 GB – 704 GB (RDIMM only)	32 GB – 192 GB	224 GB – 736 GB																			

# SCALEIO READY NODE HIGH-DENSITY CONFIGURATIONS – POWEREDGE R630

(SUPPORT DESIGNATION DC200, DC200-F, DS200, DS200-F)

High-density PowerEdge R630 servers maximize rack density and storage flexibility. Server details include:

<b>Models:</b>	<ul style="list-style-type: none"> <li>DC200-F: Hyper-converged All-flash configuration.</li> <li>DC200: Hyper-converged Hybrid configuration</li> </ul>	<ul style="list-style-type: none"> <li>DS200-F: Storage-only All-flash configuration</li> <li>DS200: Storage-only All-HDD or Hybrid configuration</li> </ul>																																																												
<b>Chassis:</b>	<ul style="list-style-type: none"> <li>PowerEdge R630. 1U1N = 1 node within a 1U enclosure</li> </ul>																																																													
<b>Drives:</b>	<ul style="list-style-type: none"> <li>10, 2.5" drives per node, consisting of SSDs and / or HDDs</li> </ul>																																																													
<b>RAID Controller:</b> (12GB/s SAS interface)	<ul style="list-style-type: none"> <li>Dell PowerEdge PERC H730 for all-HDD and hybrid nodes</li> <li>Dell PowerEdge HBA330 for all-flash nodes</li> </ul>																																																													
<b>Boot drive:</b>	64GB SATADOM, SLC																																																													
<b>Power:</b>	<ul style="list-style-type: none"> <li><u>Maximum Heat Load:</u> 1,825 BTU / hr.</li> <li><u>Maximum Power:</u> 535 VA at 25°C</li> <li><u>Input Voltage Range:</u> 100 - 240 V AC power (C13)</li> <li><u>Frequency:</u> 60 Hz (North America), 50 - 60 Hz (International)</li> </ul>																																																													
<b>Dimensions:</b>	<ul style="list-style-type: none"> <li><u>Width:</u> 17.244 in / 43.80 cm</li> <li><u>Height:</u> 1.7 in / 4.32 cm</li> <li><u>Depth:</u> 29.21 in / 74.20 cm</li> <li><u>Maximum Weight:</u> 40.79 lbs. / 18.6 kg</li> </ul>																																																													
<b>Environmental:</b>	<ul style="list-style-type: none"> <li><u>Operating Temperature Range:</u> 41 - 104°F / 5 - 40°C</li> <li><u>Relative Humidity:</u> 10 - 80% RH</li> </ul>																																																													
<b>Configuration Options:</b>	<ul style="list-style-type: none"> <li><u>Networking:</u> <ul style="list-style-type: none"> <li>Intel X520 (SFP+) or X540 (10baseT) network cards</li> <li>4 x 10GbE</li> <li>2 x 1GbE + BMC/iDRAC interface ports</li> </ul> </li> </ul>																																																													
	<b><u>Storage-Only: (DS200-F, DS200)</u></b>	<b><u>Hyper-Converged: (DC200-F, DC200)</u></b>																																																												
	<table border="1"> <thead> <tr> <th>Processor</th> <th colspan="3">Total RAM (GB)</th> </tr> </thead> <tbody> <tr> <td>2x E5-2620 v4</td> <td>32,</td> <td>64</td> <td>or 128</td> </tr> <tr> <td>2x E5-2630 v4</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Processor	Total RAM (GB)			2x E5-2620 v4	32,	64	or 128	2x E5-2630 v4				<table border="1"> <thead> <tr> <th>Processor</th> <th colspan="5">Total RAM (GB)</th> </tr> </thead> <tbody> <tr> <td>2x E5-2630 v4</td> <td>256,</td> <td>512,</td> <td>or</td> <td colspan="2">768</td> </tr> <tr> <td>2x E5-2650 v4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2x E5-2660 v4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2x E5-2680 v4</td> <td>256,</td> <td>512,</td> <td>768,</td> <td>1024 or</td> <td>1536</td> </tr> <tr> <td>2x E5-2690 v4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2x E5-2697 v4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2x E5-2698 v4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Processor	Total RAM (GB)					2x E5-2630 v4	256,	512,	or	768		2x E5-2650 v4						2x E5-2660 v4						2x E5-2680 v4	256,	512,	768,	1024 or	1536	2x E5-2690 v4						2x E5-2697 v4						2x E5-2698 v4					
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# SCALEIO READY NODE HIGH-CAPACITY CONFIGURATIONS – POWEREDGE R730XD (SUPPORT DESIGNATION CS200, CS200-F, CC200, CC200-F)

High-capacity PowerEdge R730xd servers are designed to maximize storage efficiency. Server details include:

<b>Models:</b>	<ul style="list-style-type: none"> <li>CC200-F: Hyper-converged All-flash configuration.</li> <li>CC200: Hyper-converged Hybrid configuration.</li> </ul>	<ul style="list-style-type: none"> <li>CS200-F: Storage-only All-flash configuration.</li> <li>CS200: Storage-only All-HDD or Hybrid configuration.</li> </ul>																																																													
<b>Chassis:</b>	<ul style="list-style-type: none"> <li>PowerEdge R730xd. 2U1N = 1 node within a 2U enclosure</li> </ul>																																																														
<b>Drives:</b>	<ul style="list-style-type: none"> <li>24, 2.5" drives per node, consisting of SSDs and / or HDDs</li> </ul>																																																														
<b>RAID Controller:</b> (12GB/s SAS interface)	<ul style="list-style-type: none"> <li>Dell PowerEdge PERC H730 for all-HDD and hybrid nodes</li> <li>Dell PowerEdge HBA330 for all-flash nodes</li> </ul>																																																														
<b>Boot drive:</b>	64GB SATADOM, SLC																																																														
<b>Power:</b>	<ul style="list-style-type: none"> <li><u>Maximum Heat Load:</u> 1,962 BTU / hr</li> <li><u>Maximum Power:</u> 575 VA @ 25C</li> <li><u>Input Voltage Range:</u> 100 - 240 V AC power (C13)</li> <li><u>Frequency:</u> 60 Hz (North America), 50 - 60 Hz (International)</li> </ul>																																																														
<b>Dimensions:</b>	<ul style="list-style-type: none"> <li><u>Width:</u> 17.60 in / 44.70 cm</li> <li><u>Height:</u> 3.44 in / 8.75 cm</li> <li><u>Depth:</u> 29.33 in / 74.50 cm</li> <li><u>Maximum Weight:</u> 67.02 lbs. / 30.4 kg</li> </ul>																																																														
<b>Environmental:</b>	<ul style="list-style-type: none"> <li><u>Operating Temperature Range:</u> 41 - 104°F / 5 - 40°C</li> <li><u>Relative Humidity:</u> 50 - 80% RH</li> </ul>																																																														
<b>Configuration Options:</b>	<ul style="list-style-type: none"> <li><u>Networking:</u> <ul style="list-style-type: none"> <li>Intel X520 (SFP+) or X540 (10baseT) network cards</li> <li>4 x 10GbE</li> <li>2 x 1GbE + BMC/iDRAC interface ports</li> </ul> </li> </ul> <table border="0" style="width: 100%;"> <thead> <tr> <th colspan="2" style="text-align: left;"><u>Storage-Only: (CS200-F, CS200)</u></th> <th colspan="4" style="text-align: left;"><u>Hyper-Converged: (CC200-F, CC200)</u></th> </tr> <tr> <th style="text-align: left;"><u>Processor</u></th> <th style="text-align: left;"><u>Total RAM (GB)</u></th> <th style="text-align: left;"><u>Processor</u></th> <th colspan="3" style="text-align: left;"><u>Total RAM (GB)</u></th> </tr> </thead> <tbody> <tr> <td>1x E5-2620 v4</td> <td></td> <td>2x E5-2630 v4</td> <td>256,</td> <td>512</td> <td>or</td> <td>768</td> </tr> <tr> <td>1x E5-2630 v4</td> <td>32, 64, or 128</td> <td>2x E5-2650 v4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1x E5-2650 v4</td> <td></td> <td>2x E5-2660 v4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>2x E5-2680 v4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>2x E5-2690 v4</td> <td>256,</td> <td>512,</td> <td>768,</td> <td>1024 or 1536</td> </tr> <tr> <td></td> <td></td> <td>2x E5-2697 v4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>2x E5-2698 v4</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		<u>Storage-Only: (CS200-F, CS200)</u>		<u>Hyper-Converged: (CC200-F, CC200)</u>				<u>Processor</u>	<u>Total RAM (GB)</u>	<u>Processor</u>	<u>Total RAM (GB)</u>			1x E5-2620 v4		2x E5-2630 v4	256,	512	or	768	1x E5-2630 v4	32, 64, or 128	2x E5-2650 v4					1x E5-2650 v4		2x E5-2660 v4							2x E5-2680 v4							2x E5-2690 v4	256,	512,	768,	1024 or 1536			2x E5-2697 v4							2x E5-2698 v4				
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