



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	2U1N	1U1N	2U1N
	1 node within a 1RU enclosure 8/10 drive slots	1 node within a 2RU enclosure 24/32 drive slots	1 node within a 1RU enclosure 10 drive slots	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.

Models:	<u>Storage-only</u> <ul style="list-style-type: none"> All-flash: R640-SIO-S-F All-HDD: R640-SIO-S-H Hybrid: R640-SIO-S-M 	<u>Hyper-converged</u> <ul style="list-style-type: none"> All-flash: R630-SIO-HC-F All-HDD: R640-SIO-HC-H Hybrid: R640-SIO-HC-M 	<u>Compute-only</u> <ul style="list-style-type: none"> All-flash: R640-SIO-C-F 																								
Chassis:	<ul style="list-style-type: none"> PowerEdge R640. 1U1N = 1 node within a 1U enclosure 																										
Drives:	<ul style="list-style-type: none"> 10, 2.5" drives per node, consisting of SAS/SATA SSDs or HDDs 8, 2.5" drives per node, consisting of SAS/SATA/NVMe SSDs or HDDs 																										
RAID Controller: (12GB/s SAS interface)	<ul style="list-style-type: none"> Dell PowerEdge PERC H730p for all-HDD and hybrid nodes Dell PowerEdge PERC H330 for compute-only nodes Dell PowerEdge HBA330 for all-flash nodes 																										
Boot drive:	Boot Optimized Storage Solution (BOSS), 2x 120GB 110mm M.2 SATA devices in Single PCIe Gen 3 host interface																										
Power:	<ul style="list-style-type: none"> <u>Heat Load:</u> 2891 – 6000 BTU / hr. <u>Power:</u> 750 – 1600 W <u>Input Voltage:</u> 100 – 240 V AC power <u>Frequency:</u> 50 – 60 Hz 																										
Dimensions: (without Bezel)	10, 2.5" drives: <ul style="list-style-type: none"> <u>Width:</u> 482 mm / 18.97 in / 48.2 cm <u>Height:</u> 42.8 mm / 1.7 in / 4.32 cm <u>Depth:</u> 772.67 mm / 30.42 in / 77.27 cm <u>Maximum Weight:</u> 48.28 lbs. / 21.9 kg 	8, 2.5" drives: <ul style="list-style-type: none"> <u>Width:</u> 482 mm / 18.97 in / 48.2 cm <u>Height:</u> 42.8 mm / 1.7 in / 4.32 cm <u>Depth:</u> 721.91 mm / 28.42 in / 72.19 cm <u>Maximum Weight:</u> 48.28 lbs. / 21.9 kg 																									
Environmental:	<ul style="list-style-type: none"> Operating Temperature: Up to 35°C (95°F) Relative Humidity: 10 - 80% RH 																										
Configuration Options:	<ul style="list-style-type: none"> <u>Networking:</u> <ul style="list-style-type: none"> Single-processor configs <ul style="list-style-type: none"> 1 onboard Network Daughter Card + 1 PCIe NIC 4x 10/25GbE ports Dual-processor configs <ul style="list-style-type: none"> 1 onboard Network Daughter Card + 2 PCIe NICs 2x 10GbE ports + 2x 1GbE + 4x 10/25GbE ports NIC options: 10 GbE Intel X710 network daughter cards, 10/25 GbE Mellanox ConnectX-4 Lx Network Daughter Cards and PCIe NICs <u>Storage-only Configurations:</u> <ul style="list-style-type: none"> Processor: <ul style="list-style-type: none"> 1x or 2x Skylake 6126 CPUs Memory: <ul style="list-style-type: none"> Total memory 48 GB – 384GB <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"> <u>Hyper-converged Configurations:</u> <ul style="list-style-type: none"> Processor: <ul style="list-style-type: none"> 2x Skylake 6xxx/8xxx CPUs Memory: <ul style="list-style-type: none"> Total memory 192 GB - 3TB <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*

Configuration Options:	<ul style="list-style-type: none"> • <u>Compute-only Configurations:</u> <ul style="list-style-type: none"> ○ Processor: <ul style="list-style-type: none"> ▪ 2x Skylake 6xxx/8xxx CPUs ○ Memory: <ul style="list-style-type: none"> ▪ Total memory 192 GB – 3 TB 			
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	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.

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

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.

Models:	<u>Storage-only</u> <ul style="list-style-type: none"> All-flash: R740XD-SIO-S-F All-HDD: R740XD-SIO-S-H Hybrid: R740XD-SIO-S-M 	<u>Hyper-converged</u> <ul style="list-style-type: none"> All-flash: R740XD-SIO-HC-F All-HDD: R740XD-SIO-HC-H Hybrid: R740XD-SIO-HC-M 		
Chassis:	<ul style="list-style-type: none"> PowerEdge R740XD. 2U1N = 2 node within a 1U enclosure 			
Drives:	<ul style="list-style-type: none"> 32, 2.5" drives per node, consisting of SAS/SATA SSDs or HDDs 24, 2.5" drives per node, consisting of SAS/SATA/NVMe SSDs or HDDs 			
GPU Cards: <i>Adding GPUs impacts the environmental range</i>	<ul style="list-style-type: none"> GPU options available only on 24 x 2.5" drive chassis Up to 3 single/double wide GPU Nvidia Grid M60, M10 			
RAID Controller: (12GB/s SAS interface)	<ul style="list-style-type: none"> Dell PowerEdge PERC H730p for all-HDD and hybrid nodes Dell PowerEdge HBA330 for all-flash nodes 			
Boot drive:	Boot Optimized Storage Solution (BOSS), 2x 120GB 110mm M.2 SATA devices in Single PCIe Gen 3 host interface			
Power:	<ul style="list-style-type: none"> <u>Heat Load:</u> 2891 – 7500 BTU / hr. <u>Power:</u> 750 – 2000 W <u>Input Voltage:</u> 100 – 240 V AC power <u>Frequency:</u> 50 – 60 Hz 			
Dimensions:	<ul style="list-style-type: none"> <u>Width:</u> 482 mm / 18.98 in / 42.8 cm <u>Height:</u> 86.8 mm / 3.42 in / 8.68 cm <u>Depth:</u> 715.5 mm / 28.17 in / 71.55 cm <u>Maximum Weight:</u> 61.95 lbs. / 28.1 kg 			
Environmental:	<ul style="list-style-type: none"> Operating Temperature: Up to 35°C (95°F) Relative Humidity: 10 - 80% RH 			
Configuration Options:	<ul style="list-style-type: none"> <u>Networking:</u> <ul style="list-style-type: none"> Single-processor and dual-processor configs <ul style="list-style-type: none"> 1 onboard Network Daughter Card + 2 PCIe NIC 2x 10GbE ports + 2x 1GbE + 4x 10/25GbE ports Dual-processor configs with 3 GPUs <ul style="list-style-type: none"> 1 onboard Network Daughter Card only 2x 10/25GbE ports NIC options: 10 GbE Intel X710 network daughter card, 10/25 GbE Mellanox ConnectX-4 Lx Network Daughter Cards and PCIe NICs <u>Storage-only Configurations:</u> <ul style="list-style-type: none"> Processor: <ul style="list-style-type: none"> 1x or 2x Skylake 6126 CPUs Memory: <ul style="list-style-type: none"> Total memory 48 GB – 384GB 			
		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)
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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 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:

Models:	<ul style="list-style-type: none"> DC200-F: Hyper-converged All-flash configuration. DC200: Hyper-converged Hybrid configuration 	<ul style="list-style-type: none"> DS200-F: Storage-only All-flash configuration DS200: Storage-only All-HDD or Hybrid configuration 																																																				
Chassis:	<ul style="list-style-type: none"> PowerEdge R630. 1U1N = 1 node within a 1U enclosure 																																																					
Drives:	<ul style="list-style-type: none"> 10, 2.5" drives per node, consisting of SSDs and / or HDDs 																																																					
RAID Controller: (12GB/s SAS interface)	<ul style="list-style-type: none"> Dell PowerEdge PERC H730 for all-HDD and hybrid nodes Dell PowerEdge HBA330 for all-flash nodes 																																																					
Boot drive:	64GB SATADOM, SLC																																																					
Power:	<ul style="list-style-type: none"> <u>Maximum Heat Load:</u> 1,825 BTU / hr. <u>Maximum Power:</u> 535 VA at 25°C <u>Input Voltage Range:</u> 100 - 240 V AC power (C13) <u>Frequency:</u> 60 Hz (North America), 50 - 60 Hz (International) 																																																					
Dimensions:	<ul style="list-style-type: none"> <u>Width:</u> 17.244 in / 43.80 cm <u>Height:</u> 1.7 in / 4.32 cm <u>Depth:</u> 29.21 in / 74.20 cm <u>Maximum Weight:</u> 40.79 lbs. / 18.6 kg 																																																					
Environmental:	<ul style="list-style-type: none"> <u>Operating Temperature Range:</u> 41 - 104°F / 5 - 40°C <u>Relative Humidity:</u> 10 - 80% RH 																																																					
Configuration Options:	<ul style="list-style-type: none"> <u>Networking:</u> <ul style="list-style-type: none"> Intel X520 (SFP+) or X540 (10baseT) network cards 4 x 10GbE 2 x 1GbE + BMC/iDRAC interface ports 																																																					
	<u>Storage-Only: (DS200-F, DS200)</u>	<u>Hyper-Converged: (DC200-F, DC200)</u>																																																				
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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:

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



Contact a Dell EMC Expert