

SCALEIO READY NODE

Hardware Specification Sheet



ScaleIO Ready Node

ESSENTIALS

- Server nodes that are validated, tested and optimized to provide the best performance possible
- Single vendor for the purchasing and support of your software-defined storage software and hardware
- All-flash configurations for the highest levels of performance and cost efficiency
- Building block for the industry's leading software-defined storage system designed with enterprise-grade resiliency to deliver block storage

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.

Specifications

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 or R730xd rack servers with Dell iDRAC8
- Storage-only or hyper-converged configuration options
- SanDisk DAS cache software included with hybrid SSD/HDD configurations
- 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

	HIGH-DENSITY	HIGH-CAPACITY
	Dell EMC PowerEdge R630	Dell EMC PowerEdge R730xd
	1U1N	2U1N
	1 node within a 1RU enclosure 10 drive slots	1 node within a 2RU enclosure 24 drive slots
HYPER-CONVERGED	All-flash or hybrid (support designation DC200-F, DC200)	All-flash or hybrid (support designation CC200-F, CC200)
STORAGE-ONLY	All-flash, all-HDD, or hybrid (support designation DS200-F, DS200)	All-flash, all-HDD, or hybrid (support designation CS200-F, CS200)

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:

- **Chassis:** PowerEdge R630. 1U1N = 1 node within a 1U enclosure
- **Drives:** 10, 2.5" drives per node, consisting of SSDs and / or HDDs
- **RAID Controller** (12GB/s SAS interface):
 - Dell PowerEdge PERC H730 for all-HDD and hybrid nodes
 - Dell PowerEdge HBA330 for all-flash nodes
- **Boot drive:** 64GB SATADOM, SLC
- **Networking:**
 - Intel X520 (SFP+) or X540 (10baseT) network cards
 - 4 x 10GbE
 - 2 x 1GbE + BMC/iDRAC interface ports
- **Power:**
 - **Maximum Heat Load:** 1,825 BTU / hr.
 - **Maximum Power:** 535 VA at 25°C
 - **Input Voltage Range:** 100 – 240 V AC power (C13)
 - **Frequency:** 60 Hz (North America), 50 – 60 Hz (International)
- **Dimensions:**
 - **Width:** 17.244 in / 43.80 cm
 - **Height:** 1.7 in / 4.32 cm
 - **Depth:** 29.21 in / 74.20 cm
 - **Maximum Weight:** 40.79 lbs. / 18.6 kg
- **Environmental:**
 - Operating Temperature Range: 41 - 104°F / 5 - 40°C
 - Relative Humidity: 10 - 80% RH
 - Acoustic Level: 75 dbA
- **Configuration Options:**

Storage-Only: (DS200-F, DS200)

Processor	Total RAM (GB)			
2x E5-2620 v4	32,	64	or	128
2x E5-2630 v4				

Hyper-Converged: (DC200-F, DC200)

Processor	Total RAM (GB)				
2x E5-2630 v4	256,	512,	or	768	
2x E5-2650 v4	256,	512,	768,	1024 or	1536
2x E5-2660 v4					
2x E5-2680 v4					
2x E5-2690 v4					
2x E5-2697 v4					
2x E5-2698 v4					

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:

- **Chassis:** PowerEdge R730xd. 2U1N = 1 node within a 2U enclosure
- **Drives:** 24, 2.5" drives per node, consisting of SSDs and / or HDDs
- **RAID Controller** (12GB/s SAS interface):
 - Dell PowerEdge PERC H730 for all-HDD and hybrid nodes
 - Dell PowerEdge HBA330 for all-flash nodes
- **Boot drive:** 64GB SATADOM, SLC
- **Networking:**
 - Intel X520 (SFP+) or X540 (10baseT) network cards
 - 4 x 10GbE
 - 2 x 1GbE + BMC/iDRAC interface ports
- **Power:**
 - **Maximum Heat Load:** 1,962 BTU / hr
 - **Maximum Power:** 575 VA @ 25C
 - **Input Voltage Range:** 100 – 240 V AC power (C13)
 - **Frequency:** 60 Hz (North America), 50 – 60 Hz (International)
- **Dimensions:**
 - **Width:** 17.60 in / 44.70 cm
 - **Height:** 3.44 in / 8.75 cm
 - **Depth:** 29.33 in / 74.50 cm
 - **Maximum Weight:** 67.02 lbs. / 30.4 kg
- **Environmental:**
 - **Operating Temperature Range:** 41 - 104°F / 5 - 40°C
 - **Relative Humidity:** 50 - 80% RH
 - **Acoustic Level:** 68 dbA
- **Configuration Options:**

Storage-Only: (CS200-F, CS200)

Processor	Total RAM (GB)
1x E5-2620 v4	32, 64, or 128
1x E5-2630 v4	
1x E5-2650 v4	

Hyper-Converged: (CC200-F, CC200)

Processor	Total RAM (GB)
2x E5-2630 v4	256, 512 or 768
2x E5-2650 v4	256, 512, 768, 1024 or 1536
2x E5-2660 v4	
2x E5-2680 v4	
2x E5-2690 v4	
2x E5-2697 v4	
2x E5-2698 v4	

CONTACT US

To learn more, contact your local representative or authorized reseller.

