

SDS Ultra Scale-Out Storage

OPEN STANDARDS AT ENTERPRISE-CLASS SERVICE LEVELS

The storage software is based on the SDS Ultra enterprise platform and supported by our partners Red Hat and SUSE, thus enabling IT organizations to benefit from open standards without implementation and operational risks.

UNLIMITED SCALABILITY OF CAPACITY AND PERFORMANCE

Think big, start small: SDS Ultra Storage scales capacity and performance linearly through the addition of storage nodes. Starting with four nodes, the architecture can support up to 500 nodes in environments with unpredictable data growth. It supports object, block and file access with one architecture.

Features

SDS Ultra Hybrid Scale-Out Storage is a software defined storage solutions include the following characteristics:

- Automation Simplified management that reduces the cost of maintaining the storage infrastructure
- Standard Interfaces APIs for the management, provisioning and maintenance of storage devices and services
- Virtualized Data Path Block, File and/or Object interfaces that support applications written to these interfaces
- Scalability Seamless ability to scale the storage infrastructure without disruption to the specified availability or performance
- **Transparency** The ability for storage consumers to monitor and manage their own storage consumption against available resources and costs.

In this age of rapidly expanding data growth and the advent of cloud frameworks, such as OpenStack, retail outlets are constantly adjusting to new challenges and realigning to market needs. Storage systems with Linux-based open source software using standard server hardware have already established themselves on the market as being reliable and flexible. The following offers you hardware components that allow you to optimally use SDS Ultra storage.



A configuration can start small and grow in line with the business, minimizing the need for upfront investments, re-engineering and disruption to production systems. Keeping pace with changes makes agile storage infrastructure very attractive for OpenStack users, cloud service providers, research institutes, telecommunication and media broadcasting companies.



SDS Ultra Hybrid Scale-Out Storage provides advanced features for a storage system:

- Scale-Out Capability: easily scale out by adding a new node to a cluster, the cluster will be increased both capacity and bandwidth. Cluster can be expanded up to 500 nodes. Data is replicated to at least one node in the cluster.
- **Distributed file system:** creates a cluster with a single file system and single global namespace;
- Flexible Protection: SDS Ultra is software defined storage with flexible protection
 configuration levels without Raid cards. This feature allows failure of up to 4 disks or
 more or 1 node in a cluster without data loss. Protection can apply for folder level,
 important data should be placed in high level protection folders, otherwise will be
 stored in lower level protection ones. In case of failure, the system will try to retain
 the protection level by shrinking available space.
- **High Availability:** No single point of failure; self-healing design protects against disk or node failure; includes back-end intra-cluster failover via 25/100GbE Ethernet switch
- **Data Rebalancing**: data in full nodes will be transferred to the new node as soon as it is inserted to a cluster, this results in a data balance between nodes in the cluster.
- Standard Hardware: SDS Ultra uses standard IT hardware, no special hard disk required. Hard disks with different sizes can be used in the same node with full utilization of capacity.
- **Intuitive monitoring interface**: data, performance and connection to the system are monitored and displayed intuitively on monitoring interfaces.
- Converged Infrastructure: SDS Ultra provides both application servers and storage in one infrastructure with virtualization. This allows users to deploy applications such as web applications, transcoding services, QC services, Integration services... in virtual machines across nodes in the cluster with hot swap failover capability.
- Fully compatible with MAM systems: SDS Ultra is fully compatible with Media
 Assets Management (MAM) application for building distributed MAM Systems. Proxy
 Generator converts high-resolution file originated content to low bit-rate frame
 accurate browsable material (Proxy). Proxy media are transcoded at local storages
 before transferring to the central system for previewing while high-res media are
 retained in local storages for fast operations.
- Video Processing: Built-in Transcode engine for transcoding high-res videos to lowres files for previewing without need of MAM systems. Transcoding processes are load balanced between nodes.
- Easy integration with third party software: SDS Ultra uses standard IT protocols such as SMB, NFS, FTP... allows it to integrate with third party software systems to manage user access to storage resources with strict permissions.

Migration Service:

SDS MIGR-ONL License

Migrate data from existing hardware infrastructure to distributed storage SDS software. In this case, the service supports uninterrupted migration from existing hardware and software to the SDS platform

DBST MIGR-ONL License

Migrate the database from the existing hardware & software infrastructure to the new hardware infrastructure. In this case, the service supports uninterrupted migration from existing hardware and software to the new hardware platform



Specifications

Hardware platform	SDS Ultra				
Storage management	GUI management console				
Min configuration	4 Storage nodes Data replication				
Max storage nodes	500				
Note	Usable capacity might be reduced by the number of replicas or the usage of erasure coding				
Data replication capabilities	Split-site configuration, asynchronous replication, active-active synchronization				
Network support	NFS, SMB, FTP, LDAP/AD				
Applications	object, block, and file system storage in a single unified storage cluster				
Storage Nodes	Storage Standard				
Node type	P200 Balanced		P200 Performance \ P200 Virtualization	P400 Large Storage	
Operating System	1+1 redundant 960GB SSD SATA Rocky Linux 9.4 Software Defined storage - V17.2.7 Quincy	1+1 redundant 960GB SSD SATA Rocky Linux 9.4 Software Defined storage - V17.2.7 Quincy	1+1 redundant 960GB SSD SATA Rocky Linux 9.4 Software Defined storage - V17.2.7 Quincy	1+1 redundant 960GB SSD SATA Rocky Linux 9.4 Software Defined storage - V17.2.7 Quincy	
SSD NVMe (Per Node)	1-2 PCle 3.1 x4 NVMe SSD	1-4 PCle 4.0 x4 NVMe SSD	1-4 PCle 3.1 x4 NVMe SSD	1-2 PCle 3.1 x4 NVMe SSD	
HDD/SSD (Per Node)	1-12 3.5" Hot-swap with SAS/SATA 16-port Host Bus Adapter	1-16 3.5" Hot-swap with SAS/SATA 8-port Host Bus Adapter	1-24 3.5" Hot-swap with SAS/SATA 16-port Host Bus Adapter	1-36 3.5" Hot-swap with SAS/SATA 8-port Host Bus Adapter	
ECC Memory (Per Node)	16 DIMM slots Up to 2TB ECC DDR4-3200MHz	16 DIMM slots Up to 4TB ECC DDR5-4800MHz	16 DIMM slots Up to 6TB ECC DDR4-3200MHz	8 DIMM slots Up to 2TB ECC DDR4-3200MHz	
CPU Type (Per Node)	Intel Xeon Scalable Processor Options - 01 Intel Xeon Processor 8-Core 2.6GHz	Intel Xeon Scalable Processor Options - 02 Intel Xeon Processor 10-Core 2.7GHz - 02 Intel Xeon Processor 8-Core 2.6GHz	Intel Xeon Scalable Processor Options - 02 Intel Xeon Processor 10-Core 2.7GHz - 02 Intel Xeon Processor 8-Core 2.6GHz	Intel Xeon Scalable Processor Options - 02 Intel Xeon Processor 10-Core 2.7GHz - 02 Intel Xeon Processor 8-Core 2.6GHz	
Network (Per Node)	1-2 Ethernet Adapter	1-2 Ethernet Adapter	1-3 Ethernet Adapter	1-2 Ethernet Adapter	
Options	HDD Options: 8, 12, 14, 16 or 18TB SATA 6.0Gb/s 7200RPM SSD Options: 0.96, 1.92 or 3.84 TB NVMe Memory Options: 16 or 32GB ECC Network Options: 10/25GbE(4x SFP28), 40GbE or 100GbE Cards (2x QSFP28)	HDD Options: 8, 12, 14, 16 or 18TB SATA 6.0Gb/s 7200RPM SSD Options: 0.96, 1.92 or 3.84 TB NVMe Memory Options: 16 or 32GB ECC Network Options: 10/25GbE(4x SFP28), 40GbE or 100GbE Cards (2x QSFP28)	HDD Options: 8, 12, 14, 16 or 18TB SATA 6.0Gb/s 7200RPM SSD Options: 0.96, 1.92 or 3.84 TB NVMe Memory Options: 16 or 32GB ECC Network Options: 10/25GbE(4x SFP28), 40GbE or 100GbE Cards (2x QSFP28)	HDD Options: 8, 12, 14, 16 or 18TB SATA 6.0Gb/s 7200RPM SSD Options: 0.96, 1.92 or 3.84 TB NVMe Memory Options: 32 or 64GB ECC Network Options: 10/25GbE(4x SFP28), 40GbE or 100GbE Cards (2x QSFP28)	
Power	800W - Redundant Titanium Level Power Supplies	1200W - Redundant Titanium Level Power Supplies	1600W - Redundant Titanium Level Power Supplies	1200W - Redundant Titanium Level Power Supplies	
Form Factor	2U	3U	2U	4U	
Accessories	Transceiver Optic SFP28 SR 10/25GbE PWRCRD, IEC320 C13-C14, 250V/13A [x2]	Transceiver Optic SFP28 SR 10/25GbE PWRCRD, IEC320 C13-C14, 250V/13A [x2]	Transceiver Optic SFP28 SR 10/25GbE PWRCRD, IEC320 C13-C14, 250V/13A [x2]	Transceiver Optic SFP28 SR 10/25GbE PWRCRD, IEC320 C13-C14, 250V/13A [x2]	
Support Services	Standard/Premium support and NBD Online Service, Price per TB per month	Standard/Premium support and NBD Online Service, Price per TB per month	Standard/Premium support and NBD Online Service, Price per TB per month	Standard/Premium support and NBD Online Service, Price per TB per month	



Specifications

Storage Service Nodes		
Node type	Monitor	Management
Operating System	Rocky Linux 9.4; 01 SSD	Rocky Linux 9.4; 01 SSD
	Software Defined storage - V17.2.7 Quincy	Software Defined storage - V17.2.7 Quincy
HDD/SSD (Per Node)	1-12 3.5" Hot-swap with SAS 3.0 12Gb/s	1-4 3.5" Hot-swap with SAS 3.0 12Gb/s
	16-port Host Bus Adapter	16-port Host Bus Adapter
ECC Memory (Per Node)	8 DIMM slots	8 DIMM slots
	Up to 1TB ECC DDR4-3200MHz	Up to 1TB ECC DDR4-3200MHz
CPU Type (Per Node)	Intel® Xeon® Scalable Processor	Intel® Xeon® Scalable Processor
	- 01 Intel Xeon Processor 8-Core 2.6GHz	- 01 Intel Xeon Processor 8-Core 2.6GHz
Network (Per Node)	1-2 Ethernet Adapter	1 Ethernet Adapter
Options	CPU Options: 8C	CPU Options: 8C
	SSD Options: 0.96, 1.92 or 3.84 TB SATA	SSD Options: 0.96, 1.92 or 3.84 TB SATA
	Memory Options: 16 or 32GB ECC	Memory Options: 16 or 32GB ECC
	Network Options: 10/25GbE(2x SFP28), 40GbE	Network Options: 10/25GbE(2x SFP28), 40GbE
	or 100GbE Cards (2x QSFP28)	or 100GbE Cards (2x QSFP28)
Power Supply	800W-Redundant Power Supplies	400W-Redundant Power Supplies
Form Factor	2U	1U
Accessories	Transceiver Optic SFP28 SR 10/25GbE	Transceiver Optic SFP28 SR 10/25GbE
	PWRCRD, IEC320 C13-C14, 250V/13A [x2]	PWRCRD, IEC320 C13-C14, 250V/13A [x2]
Support Services	Standard/Premium support and NBD Online	Standard/Premium support and NBD Online
	Service, Price per TB per month	Service, Price per TB per month



Storage Nodes

P200 Balanced Nodes







CPL.

Total 8 Physical Cores

Drive configuration 96TB (12 x 8TB HDD) 1.92TB (2 x 960GB SSD)

Memory

256GB (8 x 32GB DDR4)

Networking

2x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node Processing

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Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.2 inches / 437 mm D: 25.6 inches / 650mm CPL

Total 8 Physical Cores

Drive configuration 144TB (12 x 12TB HDD) 3.84TB (2 x 1.92TB SSD)

Memory

256GB (8 x 32GB DDR4)

Networking

2x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type
Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node

Processina

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.2 inches / 437 mm D: 25.6 inches / 650mm CPU

Total 8 Physical Cores

Drive configuration 168TB (12 x 14TB HDD) 3.84TB (2 x 1.92TB SSD)

Memory

256GB (8 x 32GB DDR4)

Networking

2x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node

Processina

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.2 inches / 437 mm D: 25.6 inches / 650mm



P22192 192TB HDD Storage Node

P22256 256TB HDD Storage Node



CPU

Total 16 or 20 Physical Cores

Drive configuration 192TB (12 x 16TB HDD) 15.36TB (4 x 3.84TB SSD)

Memory 512GB (16 x 32GB DDR5)

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node Processing

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions H: 3RU

W: 17.2 inches / 437 mm D: 25.6 inches / 650mm CPU

Total 16 or 20 Physical Cores

Drive configuration 256TB (16 x 16TB HDD) 15.36TB (4 x 3.84TB SSD)

Memory 512GB (16 x 32GB DDR5)

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node Processing

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions H: 3RU

W: 17.2 inches / 437 mm D: 25.6 inches / 650mm CPU

Total 16 or 20 Physical Cores

Drive configuration 288TB (16 x 18TB HDD) 15.36TB (4 x 3.84TB SSD)

Memory 512GB (16 x 32GB DDR5)

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node Processing

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions H: 3RU

W: 17.2 inches / 437 mm D: 25.6 inches / 650mm



P200 Performance Nodes







CPL

Total 16 Physical Cores

Drive configuration 160TB (20 x 8TB HDD) 3.84TB (4 x 960GB SSD)

Memory 384GB (12 x 32GB DDR4)

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node Processing

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 2RU

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm CPU

Total 16 Physical Cores

Drive configuration 240TB (20 x 12TB HDD) 7.68TB (4 x 1.92TB SSD)

Memory 384GB (12 x 32GB DDR4)

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy
Multithreaded and multi node

Processing

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 2RU

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm CPU

Total 16 Physical Cores

Drive configuration 280TB (20 x 14TB HDD) 7.68TB (4 x 1.92TB SSD)

Memory 384GB (12 x 32GB DDR4)

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy
Multithreaded and multi node
Processing

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm









CPU

Total 16 Physical Cores

Drive configuration 192TB (24 x 8TB HDD) 7.68TB (4 x 1.92TB SSD)

Memory

512GB (16 x 32GB DDR4)

Networking

4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node

Processing

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm CPU

Total 16 Physical Cores

Drive configuration 288TB (24 x 12TB HDD) 7.68TB (4 x 1.92TB SSD)

Memory

512GB (16 x 32GB DDR4)

Networking

4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node

Processing

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm **CPU**

Total 16 Physical Cores

Drive configuration 336TB (24 x 14TB HDD) 7.68TB (4 x 1.92TB SSD)

Memory

512GB (16 x 32GB DDR4)

Networking

4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Video Proxy

Multithreaded and multi node

Processing

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm



P200 Virtualization Nodes







CPL

Total 16 Physical Cores

Drive configuration 144TB (12 x 12TB HDD) 7.68TB (2 x 3.84TB SSD)

Memory

384GB (12 x 32GB DDR4)

GPU Type

1x 6GB GDDR6 With ECC

Networking

4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Built-in

VMs, Container Deployment and Management

Video Proxy

Multithreaded and multi node

Processing

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.3 inches / 439 mm D: 27.5 inches / 698.5mm **CPU**

Total 16 Physical Cores

Drive configuration 168TB (12 x 14TB HDD) 7.68TB (2 x 3.84TB SSD)

Memory

384GB (12 x 32GB DDR4)

GPU Type

1x 6GB GDDR6 With ECC

Networking

4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Built-in

VMs, Container Deployment and Management

Video Proxy

Multithreaded and multi node

Processing

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.3 inches / 439 mm D: 27.5 inches / 698.5mm CPU

Total 16 Physical Cores

Drive configuration 192TB (12 x 16TB HDD) 7.68TB (2 x 3.84TB SSD)

Memory

384GB (12 x 32GB DDR4)

GPU Type

1x 16GB GDDR6 With ECC

Networking

4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols

Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Built-in

VMs, Container Deployment and Management

Video Proxy

Multithreaded and multi node Processina

Power supply

Dual Redundancy Power 120v-240v 50Hz-60Hz

Dimensions

H: 2RU

W: 17.3 inches / 439 mm D: 27.5 inches / 698.5mm



P20240_VM+ 240TB HDD Storage Node





CPU

Total 16 Physical Cores

Drive configuration 240TB (20 x 12TB HDD) 7.68TB (4 x 1.92TB SSD)

Memory 384GB (12 x 32GB DDR4)

GPU Type
1x 12GB GDDR6 With ECC

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Built-in VMs, Container Deployment and Management

Video Proxy
Multithreaded and multi node
Processing

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 2RU W: 17.2 inches / 4

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm **CPU**

Total 16 Physical Cores

Drive configuration 280TB (20 x 14TB HDD) 7.68TB (4 x 1.92TB SSD)

Memory 384GB (12 x 32GB DDR4)

GPU Type
1x 12GB GDDR6 With ECC

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Built-in

VMs, Container Deployment and Management

Video Proxy Multithreaded and multi node Processing

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 2RU

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm **CPU**

Total 16 Physical Cores

Drive configuration 192TB (24 x 8TB HDD) 7.68TB (4 x 1.92TB SSD)

Memory 512GB (16 x 32GB DDR4)

GPU Type
1x 12GB GDDR6 With ECC

Networking 4x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Built-in

Processing

H: 2RU

VMs, Container Deployment and Management

Video Proxy Multithreaded and multi node

Power supply
Dual Redundancy Power

120v-240v 50Hz-60Hz Dimensions

W: 17.2 inches / 437 mm D: 34 inches / 863.6mm



P400 Large Node







CPL

Total 16 Physical Cores

Drive configuration 504TB (36 x 14TB HDD) 3.84TB (2 x 1.92TB SSD)

Memory

256GB (8 x 32GB DDR4)

Networking 2x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 4RU

W: 17.2 inches / 437 mm D: 27.5 inches / 699mm Total 16 Physical Cores

Drive configuration 576TB (36 x 16TB HDD) 3.84TB (2 x 1.92TB SSD)

Memory 256GB (8 x 32GB DDR4)

Networking 2x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 4RU

W: 17.2 inches / 437 mm D: 27.5 inches / 699mm Total 16 Physical Cores

Drive configuration 648TB (36 x 18TB HDD) 3.84TB (2 x 1.92TB SSD)

Memory 256GB (8 x 32GB DDR4)

Networking 2x 10GbE or 25GbE

Data resiliency High availability per service / protocol

Storage protocols Ceph-FS, RBD, S3 RADOS

Storage Type Block, File, Object

Management 1x 1GbE, IPMI

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 4RU

W: 17.2 inches / 437 mm D: 27.5 inches / 699mm



Storage Services Nodes







CPU

Total 8 Physical Cores

Drive configuration 11TB (12 x 960GB SSD)

Memory

128GB (8 x 16GB DDR4)

Networking

2x 10GbE or 25GbE

Data resiliency

Provided via redundant NICs

Function

Maintains Ceph cluster resiliency and recovery

Node Type Monitor Node

Management 1x 1GbE, IPMI

Operating System
Linux; 1 x SSD Software
Defined Storage Enterprise

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 2RU

W: 17.3 inches / 439 mm D: 27.5 inches / 698.5mm CPU

Total 8 Physical Cores

Drive configuration 3.84TB (4 x 960GB SSD)

Memory 128GB (8 x 16GB DDR4)

Networking 2x 10GbE or 25GbE

Function

Manages Ceph using Ceph

Commands

Node Type Management Node

Management 1x 1GbE, IPMI

Operating System Linux; 1 x SSD Software Defined Storage Enterprise

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 1RU

W: 17.3 inches / 439 mm D: 19.98 inches /507 mm CPU

Total 8 Physical Cores

Drive configuration 7.68TB (8 x 960GB SSD)

Memory 128GB (8 x 16GB DDR4)

Networking 2x 10GbE or 25GbE

Function

Manages Ceph using Ceph Commands

Node Type Management Node

Management 1x 1GbE, IPMI

Operating System
Linux; 1 x SSD Software
Defined Storage Enterprise

Power supply
Dual Redundancy Power
120v-240v 50Hz-60Hz

Dimensions H: 1RU

W: 17.3 inches / 439 mm D: 19.98 inches /507 mm

