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2CRSi storage solution

ULYS S24-HA

"Cluster-in-a-box" for Software-Defined Storage High Performance Meets High Availability

Data-intensive applications depend on fast, efficient storage. The ULYS S24-HA combines the speed of NVMe™ SSDs with a dual-server architecture to deliver a "clusterin-a-box." Featuring the latest Intel® Xeon® CPUs, core count and power can be selected to balance data workload and datacenter efficiency requirements.

Newly available dual-port NVMe SSD technology means that all-flash array deployments can now benefit from full high availability and NVMe performance. The servers are connected with a Non-Transparent Bridge (NTB), a PCIe Gen3x16 link, which the software-defined storage stack can use to synchronize metadata between the two compute canisters.

The ULYS S24-HA is built to deliver high availability and enterprise-class reliability. The entire enclosure, including server canisters, is backed with a 5-year limited warranty.

FEATURES

- Dual high-performance Intel Xeon Scalable Processor-based server canisters
- Each compute canister includes
  - Dual processors with a choice of Intel® Xeon® Scalable Processors
  - 2 M.2 SSD boot drives
  - 24 DDR4 R-DIMM Slots
  - 4 10GbE ports
  - 1GbE for IPMI system management
  - 3 Gen 3 PCIe x16 slots
  - Enterprise-grade redundant and hot-swappable PSUs, SSDs, server canisters
- Up to 24 NVMe dual-port SSDs with a range of capacity and endurance options
- Up to 184TB[1] in 2U
- Optional battery backup unit

Designed for Emerging Software-Defined Storage Applications

The ULYS S24-HA is designed for high performance and high availability in demanding software-defined storage environments.

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Max. Drives	• 24 x 2.5" Dual-port NVMe SSDs
Available SSD Capacities	• 7.68TB 1 DW/D, Ultrastar® DC SN200 • 3.84TB 1 DW/D, Ultrastar DC SN200 • 1.92TB 1 DW/D, Ultrastar DC SN200
Available CPU Choices	• Intel® Xeon® Scalable Processors, up to 3GHz and up to 22 cores
Memory per Canister	• 192GB (12 x 16GB) DDR4 ECC Registered • Up to 1.5TB (24 DIMM)
Expansion per Canister	• 2 PCIe Gen3 x16 Low Profile • 1 PCIe Gen3 x16 Standard Height
Networking per Canister	• 2 Mellanox® ConnectX-5 (100Gb Ethernet & Infiniband™)
I/O per Canister	• 4 10Gb Ethernet (RJ45) • 2 USB 3.0 • 1 VGA, DB15 • 1 RJ45 BMC / Management
Management	• IPMI 2.0 system management
Physical Dimensions	• Height: 87.6mm (3.45") • Width: 446.4mm (17.58") • Depth: 836.4mm (32.93")
Max. Weight	• Product without SSDs: ~39.1 kg (86.0 lbs) • Product with 24 SSDs: ~42.1 kg (92.6 lbs)
Power	• 2 Power Modules (redundancy 1+1), 80+ Platinum (AC input). DC Input in option • 56.2WHr Battery Backup Unit (BBU) per canister with 5-year expected life
Cooling per Canister	• 4+140mm fans, swappable
LED Indicators	• Front: Power, ID, Fault • Drive: Activity, Fault
Serviceability	• Hot-swappable power supplies, compute canister, and SSD modules
Environmental	• Operating Temperature: 5 to 35°C • Non-op Temperature: -30 to 60°C • Humidity: 8 to 85% relative humidity