Ultrastar® Serv24-HA

⬥ Features

- Dual high-performance Intel Xeon Scalable Processor-based server canisters
- Each compute canister includes
  - Dual processors with a choice of Intel Xeon CPUs
  - 2 M.2 SSD boot drives
  - 24 DDR4-2400 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

"Cluster-in-a-box" for Software-Defined Storage

High performance meets high availability

Data-intensive applications depend on fast, efficient storage. The Ultrastar® Serv24-HA combines the speed of NVMe™ SSDs with a dual-server architecture to deliver a "cluster-in-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 Ultrastar Serv24-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.

Ultrastar Serv24-HA - front

Ultrastar Serv24-HA - back

[1]One MB is equal to one million bytes, one GB is equal to one billion bytes and one TB equals 1,000GB (one trillion bytes) when referring to storage capacity. Accessible capacity will vary from the stated capacity due to formatting and partitioning of the drives, the operating system and other factors.

Ultrastar® Serv24-HA

Designed for Emerging Software-Defined Storage Applications:

The Ultrastar Serv24-HA is designed for high performance and high availability in demanding software-defined storage environments.

Specifications

Max. Drives	24 x 2.5" Dual-port NVMe SSDs
Available SSD Capacities	• 7.68TB 1 DW/D, Ultrastar® SN200 • 3.84TB 1 DW/D, Ultrastar SN200 • 1.92TB 1 DW/D, Ultrastar SN200
Available CPU Choices	• Xeon 5118, 2.3GHz, 12C, 105W • Xeon 6140, 2.3GHz, 18C, 140W
Memory per Canister	• 128GB DDR4-2400 (16x 16GB DIMMs) • 24 DIMM Slots on each motherboard
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 w/o SSDs: ~39.1 kg (86.0 lbs) • Product w/ 24 SSDs: ~42.1 kg (92.6 lbs)
Power	• 1+1 1800W, CRPS, 80+ Platinum • 200-240V AC input • 56.2WHr Battery Backup Unit (BBU) per canister with 5-year expected life
Cooling per Canister	4+1 40mm fans, cold-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

Contact

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