
ULYS 224

Flash Storage Platform for Software-Defined Storage



ULYS 224 is a 2U24 Flash Storage Platform for Software-Defined Storage.

ULYS 224 is a key element of next generation software-defined storage (SDS) systems. This powerful system balances performance with capacity, delivering high IOPS, low latency at up to 368TB1 capacity. It also offers flexibility to improve compute-to-capacity ratio by decoupling available storage from CPU resources.

Designed for Enterprise and the Cloud

ULYS 224 addresses the demanding storage needs of large enterprises and cloud service providers who require dense, shared flash storage.

The Platform offers distinct features designed for today's data centers, such as:

- **Enterprise-class high availability:**
hot swappable components including SSDs, I/O Modules, PSUs (integrated fans)
- **Fully upgradeable:**
upgradeable firmware enables drive technology and capacity updates without impacting applications
- Supports enterprise workloads including database, virtualization and scale-out configurations

Features

- A 2U flash storage platform with up to 24x 2.5" SAS SSD modules
- Available SSD capacities include 1.6TB, 1.92TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB and 15.36TB
- Start with as little as 12 SSDs and add additional SSDs as needed to meet changing needs
- Up to 6x12Gb/s SAS3 connections to host
- Up to 4.7M IOPS, 23 GB/s; <1ms latency
- Easy maintenance of SSD modules. Front accessible and hot swappable.
- 5-year limited warranty



Platform Models, Capacity and Performance

Model Number	3D38	1D46	3D76	1D92	3D153	1D184	1D368
SSD Type	SAS 1.6TB	SAS 1.92TB	SAS 3.2TB	SAS 3.84TB	SAS 6.4TB	SAS 7.68TB	SAS 15.36TB
Endurance	3DW/D	1DW/D	3DW/D	1DW/D	3DW/D	1DW/D	1DW/D
Max # of Drives	24	24	24	24	24	24	24
Max Capacity (TB)	38.4	46.08	76.8	92.16	153.6	184.32	368.64
4KB Random Read IOPS	4700000	4700000	4700000	4700000	4700000	4700000	4700000
4KB Random Write IOPS	672000	672000	672000	672000	672000	672000	672000
Seq Read BW (MB/s)	23000	23000	23000	23000	23000	23000	23000
Seq Write BW (MB/s)	23000	23000	23000	23000	23000	23000	23000

Based on internal testing results. Performance may vary according to system adoption, configuration and broader system architecture.

Specifications

Max. Drives	24 x 2.5" SSDs
Drive Interface	12Gb/s SAS
Hard Disk	SAS (1DW/D): 1.92TB, 3.84TB, 7.68TB and 15.36TB SAS (3DW/D): 1.6TB, 3.2TB and 6.4TB
Available SSD Capacities	4x DDR4 ECC RDIMM/LRDIMM/3DS LRDIMM, support 2133/2400/2666 , up to 512GB
Host Interface	1+1 I/O Modules (IOM) (SAS: 2 IOM), 3 Mini-SAS HD ports per IOM
Management	SCSI Enclosure Services
LED Indicators	Front/Rear: Power, ID, Fault Drive: Activity, Fault
Physical Dimensions	Height: 87.4mm (3.44") Width: 446mm (17.56") Depth: 536mm (21.1")
Weight	Product without SSDs: 18.3kg (40.3lbs) Product with 24 SSDs: 23.7kg (52.3lbs)
Power	1+1 600W, 80+ Gold 90-264V AC input, auto ranging, 47-63Hz
Cooling	3 fan modules per power supply, front-to-rear system cooling Fan speed turning via system management interface
Environmental	Operating Temperature: 5 to 40°C Non-op Temperature: -40 to 60°C Humidity: 5 to 85% relative humidity Operating Altitude: 40°C @ 3,000ft Sound Power: < 7.2Bels @ 23±2°C
Serviceability	Hot-swappable IOM, power supply and SSDs