

Balance Performance and Cost

The Ability 4U 60-Bay EBOD is a key element of next-generation disaggregated storage and software-defined storage (SDS) systems, delivering high density and the flexibility to balance performance with cost. The Ability 4U 60-Bay EBOD provides up to 1PB of raw storage in a compact and efficient form factor. The drives ensure cool running, quiet operation and high reliability. A high-performance data tier can be set up for demanding applications by using SSDs in up to 24 of the drive slots, enabling the ability to serve both fast data and big data from a single platform.

Building on 25+ Years of Storage Design Experience

Conventional dense disk shelves frequently suffer from performance degradation due to induced vibration from adjacent drives. Traditional platforms also have cooling challenges as the cooling air passes over successive rows of drives, losing effectiveness as it gets heated up along the airflow path. Developing storage devices and platforms side-by-side, we address these challenges through vertical innovation, a set of technologies developed based on a holistic view of devices, platform and their interactions. The first patented technology reduces vibration-induced performance degradation, while the second patented technology overcomes the cooling issues by introducing cool air into the middle of the platform. Both these technologies contribute to long-term reliability.



Designed for the Enterprise and the Cloud

This new platform addresses the demanding storage needs of large enterprise customers, storage OEMs, cloud service providers and resellers/integrators that require dense, shared HDD or hybrid storage. The Ability 4U 60-Bay EBOD provides the flexibility to specify the HDD and SSD combinations to balance capacity, performance and cost.

Patented Vibration Isolation Technology

Precise cuts in the baseboard provide a suspension for the drives in the chassis, isolating them from transmitted vibration. The result is that consistent performance is maintained, even when all the drives are working hard.

Patented Thermal Zone Cooling Technology

By introducing cool air into the center of the chassis, drives operate at lower and more consistent temperatures than conventional systems. This results in lower fan speeds, reduced vibration, lower power consumption, quieter operation and ultimately higher reliability.

Features

- Up to 60 HDDs (SAS or SATA).
- Hybrid support with up to 24 SSDs (SAS or SATA) for a data acceleration tier.
- Up to 1PB of raw storage in 4U.
- Choose dual-port SAS for high availability or single-port SATA for low cost.
- 4 rack units, 712mm depth.
- Up to 12 x 12Gb/s SAS-3 host connections.
- Patented technology ensures maximum performance even in heavy workloads.
- Enterprise-grade redundant and hot-swappable PSUs, IO Modules and fans.
- Improved cooling from innovative, patented technology.
- Rack-mounted top cover for quick and easy service.

Technical Specifications

Max. Drives	60 x 3.5" drive bays Up to 24 can be SAS or SATA SSD
Drive Interface	12Gb/s SAS 6Gb/s SATA
Available Drive Capacities	HDD up to 18TB SSD up to 15.36TB
Host Interface	Dual redundant I/O Modules (IOM), 6 Mini-SAS HD ports per IOM
Weight	4U60 w/o drives: 27.3kg (60lbs) 4U60 w/ 60 HDDs: 79.4kg (175lbs)
LED Indicators	Front/Rear: Power, ID, Fault Drive: Activity, Fault
Physical Dimensions	Height: 175mm (6.89") Width: 447mm (17.61") Depth: 712mm (28.03") Depth in Rack: Max of 890mm (35.04") w/ dual CMA—includes 2 SAS cables
Management	SCSI Enclosure Services Redfish (out of band, via RJ45)
Power	Dual 1600W, 80+ Platinum 200-240V AC input, auto ranging, 50-60Hz
Cooling	4 main enclosure fans, front-to-rear system cooling with zero-loss backflow prevention 1 IO module fans Dual PSUs with built-in fans
Environmental	Operating Temperature: 5 to 40°C Non-op Temperature: -40 to 70°C Humidity: 5 to 85% relative humidity Operating Altitude: 40°C @ 3,000ft Sound Power: < 7.2Bels @ 23±2°C
Serviceability	Cable-free hot-swappable IOM, power supply, fans and drives

