

## **4U60 Hybrid Storage Platform**

## **♦** Features

- Up to 60 Ultrastar® He12 HDDs (SAS or SATA)
- Hybrid support for up to 24 SSDs (SAS or SATA) to create a data acceleration tier
- Up to 720TB of raw storage in 4U
- Dual-port SAS for high availability or single-port SATA for low cost
- 4 rack units height, 705mm depth
- Up to 12 x 12Gb/s SAS3 host connections
- Patented IsoVibe technology ensures maximum performance even in heavy workloads
- Enterprise-grade redundant and hot-swappable PSUs, IO Modules and fans
- Improved cooling from innovative, patented ArcticFlow technology
- Rack-mounted top cover for quick and easy service
- 5-year limited warranty



# 60-Bay Hybrid Storage Platform The Next Generation Hybrid Platform for SoftwareDefined Storage



### Designed for High Density and Flexibility

The 4U60 Hybrid Storage Platform 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 4U60 Platform provides up to 720TB¹ of raw storage in a compact and efficient form factor. HGST HelioSeal® 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 50+ 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 two of these patented technologies are IsoVibe™ and ArcticFlow™. IsoVibe reduces vibration-induced performance degradation, while ArcticFlow overcomes the cooling issues by introducing cool air into the middle of the platform. Both these technologies contribute to long-term reliability, enabling our five-year limited warranty on the entire platform.

### 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 4U60 Hybrid Storage Platform provides the flexibility to specify the HDD and SSD combinations to balance capacity, performance and cost.



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#### IsoVibe 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.



### Arctic Flow 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.

# 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 12TB     SSD up to 6.4TB
Host Interface	<ul> <li>Dual redundant I/O Modules (IOM),</li> <li>6 Mini-SAS HD ports per IOM</li> </ul>
Weight	<ul> <li>4U60 w/o drives: 27.3kg (60lbs)</li> <li>4U60 w/ 60 HDDs: 79.4kg (175lbs)</li> </ul>
LED Indicators	Front/Rear: Power, ID, Fault  Trive: Activity, Fault
Physical Dimensions	<ul> <li>Height: 175mm (6.89")</li> <li>Width: 447mm (17.61")</li> <li>Depth: 712mm (28.05")</li> </ul>
Management	SCSI Enclosure Services     Redfish (out of band, via RJ45)
Power	<ul> <li>Dual 1600W, 80+ Platinum</li> <li>200-240V AC input, auto ranging, 50-60Hz</li> </ul>
Cooling	<ul> <li>4 main enclosure fans, front-to-rear system cooling with zero-loss backflow prevention</li> <li>2 IO module fans</li> <li>Dual PSUs with built-in fans</li> <li>Fan speed tuning via system management</li> </ul>
Environmental	<ul> <li>Operating Temperature: 5 to 40°C</li> <li>Non-op Temperature: -40 to 60°C</li> <li>Humidity: 5 to 85% relative humidity</li> <li>Operating Altitude: 40°C @ 3,000ft</li> <li>Sound Power: &lt; 7.2Bels @ 23±2°C</li> </ul>
Serviceability	Cable-free hot-swappable IOM, power supply, fans and drives

### Contact

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