

# 4U60 Storage Enclosure



- Up to 60 integrated Ultrastar<sup>®</sup> drive modules
  - Available with 512e or 4Kn sector size (by part number)
  - Available option to configure up to 8 Ultrastar SSDs to create separate performance tiers within the enclosure
  - Available with SAS drives for HA application or with SATA drives for cost optimized applications
- Host connectivity 2 x SAS QSFP+ receptacles per IO Module; optional connectivity cables are available
  - QSFP+ to HD mini SAS cables for host
  - QSFP+ to QSFP+ cables for daisy-chaining<sup>\*</sup>
- Hot Swappable: two power supplies (with integrated fans), drive modules, and IO modules
- Fully compliant with SAS 3.0 specification for operation up to 12Gbps
- Optional cable management arm eliminates tangled cables during servicing of hot-swappable CRUs
- SCSI Enclosure Services (SES-3)
- Microsoft Certified for Windows Server 2012, 2012 R2 & 2016
- 5-year limited warranty

Shock

Vibration

Acoustics

\* Up to 4 storage enclosures supported for daisy-chaining

The HGST 4U60 Storage Enclosure is a high-density, scalable, and costeffective design, up to 60 Ultrastar® 3.5-inch drive modules (in multiples of 12) in a 4U enclosure. It offers 2x2x4-lane SAS 12Gb/s performance, high availability (HA), and hot-swappable components. The design is targeted towards data centers that need a dense solution with HA capabilities, while maintaining a low power profile.



4U JBOD Up to 60 Ultrastar drive modules Available with 4 drive module capacities<sup>1</sup>: 10TB, 8TB, 6TB and 4TB

8g 6ms Trapezoidal

Random 0.6 Grms 10-300Hz

### Specifications

Capacity / Physical Size				
Capacity <sup>1</sup>		600TB with 10TB drive modules		
Height		174.8 mm (6.88 in.) – 4 Rack Units		
Width		424 mm (16.69 in.)		
Depth		983 mm (38.7 in.) – including cable management		
Weight		89.81 kg (198 lbs.) – fully configured with 60 helium drive modules 93.71 kg (208 lbs) – fully configured with 60 air drive modules		
Power and Cooling: Operating	l			
Two 1,650W PSUs, hot swap an	d redundant			
200-240VAC auto-ranging, 47h	Hz-63Hz input (high line pow	er only)		
N+1 redundant fans (fans integ	rated in PSU)			
Environmental	C	DPERATING	NON-OPERATING	
Temperature range	5	° to 40°C (helium drives), 5° to 35°C (air drives)	-30° to 60°C	
Humidity	8	% to 80% (non-condensing)	8% to 80% (non-condensing)	

<7.5dB LwA @ 23°C

<sup>1</sup> 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 hard drives, the operating system and other factors.

3.5g 6ms Pulse vertical shock

0.05 g sine wave sweep, 10-300Hz

Random 0.25 Grms, 5-10Hz

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## 4U60 Storage Enclosure

## Available Products

#### 4U60 Storage Enclosure (2x2x4 SAS 12Gb/s), with **SAS** HDD Modules

ESO092600TB512eTCGFully populated enclosure with 60 Ultrastar He® 10TB HDD ModulesIESO094600TB4KnISEFully populated enclosure with 60 Ultrastar He® 10TB HDD ModulesIESO095600TB4KnTCGFully populated enclosure with 60 Ultrastar He® 10TB HDD ModulesIESO034480TB512eISEFully populated enclosure with 60 Ultrastar He® 10TB HDD ModulesIESO031480TB512eSEFully populated enclosure with 60 Ultrastar He® 17B HDD ModulesIESO033480TB512eTCGFully populated enclosure with 60 Ultrastar He® 17B HDD ModulesIESO034480TB512eTCGFully populated enclosure with 60 Ultrastar He® 17B HDD ModulesIESO035480TB512eTCGFully populated enclosure with 60 Ultrastar He® 17B HDD ModulesIESO033480TB512eTCGFully populated enclosure with 60 Ultrastar He® 17B HDD ModulesIESO059360TB512eISEFully populated enclosure with 60 Ultrastar He® 17B HDD ModulesIESO059360TB512eTCGFully populated enclosure with 60 Ultrastar 7K6000 6TB HDD ModulesIESO059360TB512eTCGFully populated enclosure with 60 Ultrastar 7K6000 6TB HDD ModulesIES0050360TB4KnISEFully populated enclosure with 60 Ultrastar 7K6000 6TB HDD ModulesIES0055240TB512eTCGFully populated enclosure with 60 Ultrastar 7K6000 6TB HDD ModulesIES0056240TB512eTCGFully populated enclosure with 60 Ultrastar 7K6000 4TB HDD M	Part Number	Capacity	Sector Size	Encryption*	Description
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1ES0067240TB512eTCGFully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules1ES0057240TB4KnISEFully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules1ES0056240TB4KnSEFully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules1ES0100192TB512eISEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules1ES0117192TB512eSEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules1ES0101144TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES0102144TB512eSEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES010396TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ES0055	240TB	512e	ISE	Fully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules
1ES0057240TB4KnISEFully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules1ES0056240TB4KnSEFully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules1ES0100192TB512eISEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules1ES0117192TB512eSEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules1ES0101144TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES0102144TB512eSEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES010396TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ES0054	240TB	512e	SE	Fully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules
1ES0056240TB4KnSEFully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules1ES0100192TB512eISEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules1ES0117192TB512eSEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules1ES0101144TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES0102144TB512eSEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES010396TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ESO067	240TB	512e	TCG	Fully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules
IES0100192TB512eISEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD ModulesIES0117192TB512eSEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD ModulesIES0101144TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD ModulesIES0102144TB512eSEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD ModulesIES010396TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ES0057	240TB	4Kn	ISE	Fully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules
1ES0117192TB512eSEPartially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules1ES0101144TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES0102144TB512eSEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES010396TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ES0056	240TB	4Kn	SE	Fully populated enclosure with 60 Ultrastar 7K6000 4TB HDD Modules
1ES0101144TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES0102144TB512eSEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES010396TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ES0100	192TB	512e	ISE	Partially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules
1ES0102144TB512eSEPartially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules1ES010396TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ESO117	192TB	512e	SE	Partially populated enclosure with 24 Ultrastar He <sup>8</sup> 8TB HDD Modules
1ES010396TB512eISEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ES0101	144TB	512e	ISE	Partially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules
	1ES0102	144TB	512e	SE	Partially populated enclosure with 24 Ultrastar 7K6000 6TB HDD Modules
1ES010496TB512eSEPartially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules	1ES0103	96TB	512e	ISE	Partially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules
	1ES0104	96TB	512e	SE	Partially populated enclosure with 24 Ultrastar 7K6000 4TB HDD Modules

#### 4U60 Storage Enclosure (2x2x4 SAS 12Gb/s), with SATA HDD Modules

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Part Number	Capacity	Sector Size	Encryption*	Description
1ES0079	480TB	512e	ISE	Fully populated enclosure with 60 Ultrastar He <sup>®</sup> 8TB HDD Modules
1ES0080	480TB	512e	SE	Fully populated enclosure with 60 Ultrastar He <sup>8</sup> 8TB HDD Modules
1ES0081	480TB	512e	SED	Fully populated enclosure with 60 Ultrastar He <sup>s</sup> 8TB HDD Modules
1ES0082	480TB	4Kn	ISE	Fully populated enclosure with 60 Ultrastar He <sup>8</sup> 8TB HDD Modules
1ESO083	480TB	4Kn	SE	Fully populated enclosure with 60 Ultrastar He <sup>s</sup> 8TB HDD Modules
1ES0084	480TB	4Kn	SED	Fully populated enclosure with 60 Ultrastar He <sup>8</sup> 8TB HDD Modules

\* Encryption options: TCG = Trusted Computing Group, SE = Secure Erase, ISE = Instant Secure Erase, SED = Self-encrypting Drive with Bulk Data Encryption

For a complete list of available HDD and SSD drive modules and accessories, see the P/N Selector tab at www.hgst.com/4U60. Contact your HGST Sales representative for information on how to order.

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