HGST Standard 4U60 JBOD Platform

Enterprise Class Dense Storage Solution

January 2016

4U60 Storage Enclosure

Designed for High-Availability Storage Applications

JBOD Features

- 4 Rack Units
- 12Gb/sec SAS3 interconnect
- 60 Ultrastar HDD Modules

Available in
480TB
360TB
240TB
capacities

4U60 Storage Enclosure

Key values

Enterprise Class

High Quality

Special Features

Low Power

HGST guarantee

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HGST guarantee

- Hot Swap HDD, IOM, PSU (Fans integrated)
- High IOPs, High GB/s
- Easy Maintenance of HDDs (Top accessible and hot swappable)
- All 60 drives can be accessed simultaneously
- Commands can be issues to spin-down individual drives

4U60 Storage Enclosure

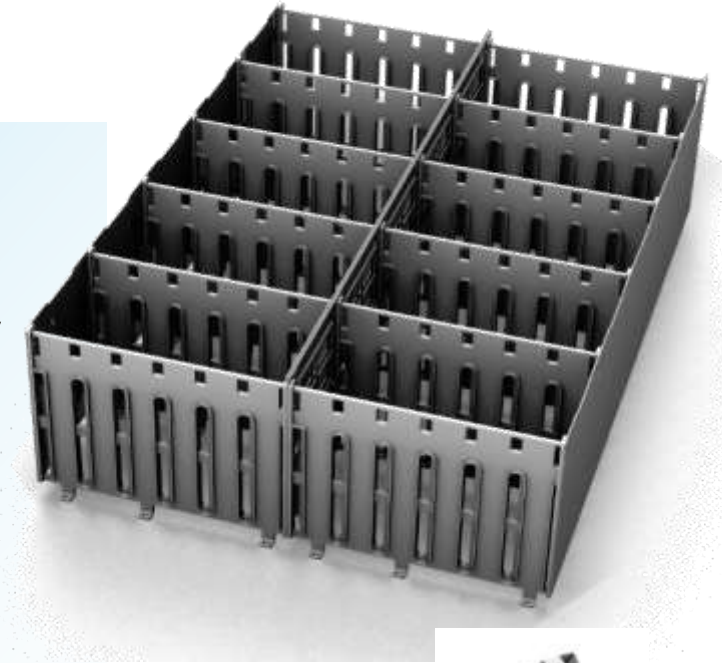## Key values

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HGST guarantee

– Honey comb Aluminum structure to increase strength and reduce RV

– Reduce RV with springs built into plastic frame

– No single point of failure

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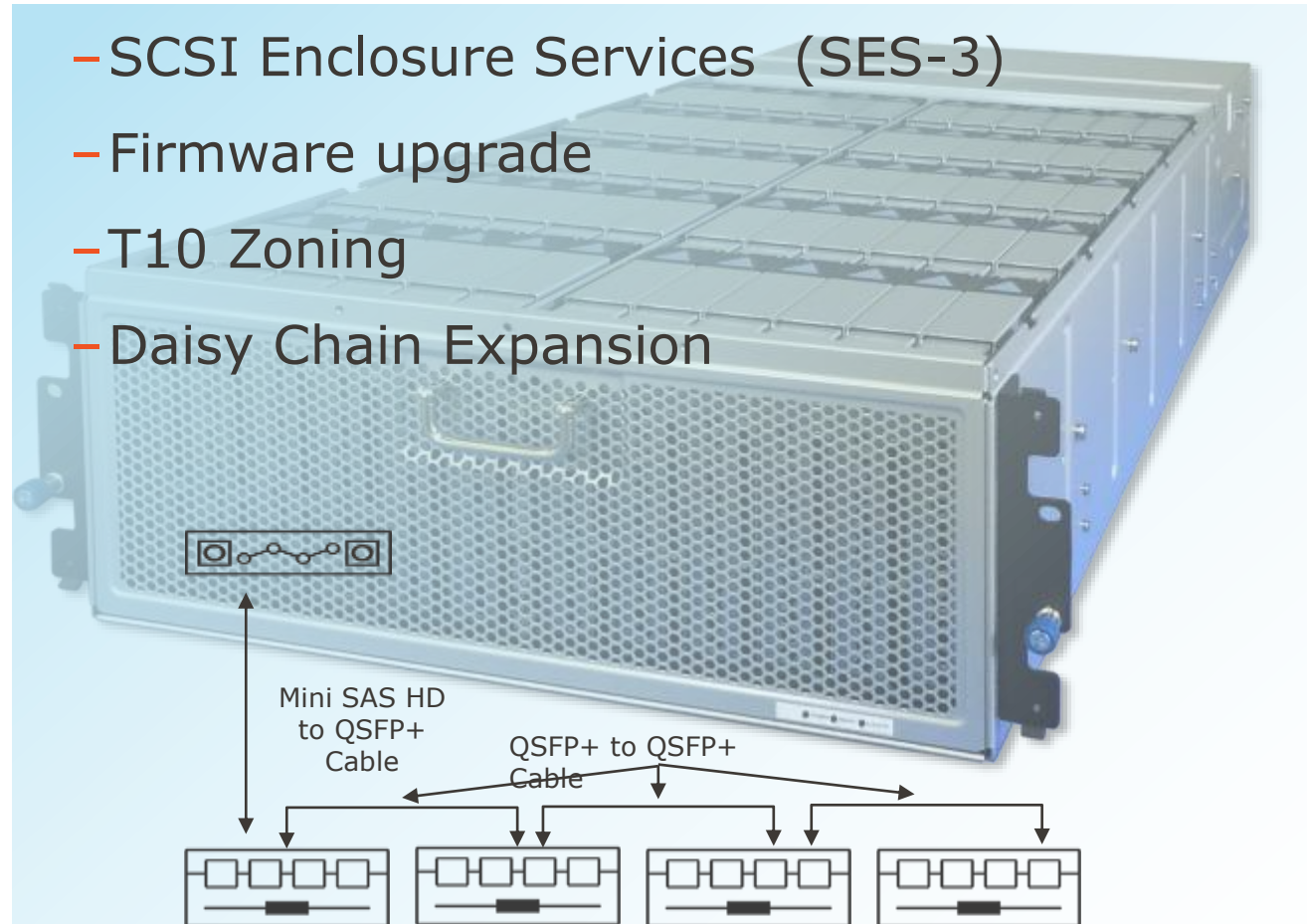
4U60 Storage Enclosure

Key values

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HGST guarantee	

– SCSI Enclosure Services (SES-3)

– Firmware upgrade

– T10 Zoning

– Daisy Chain Expansion

Mini SAS HD to QSFP+ Cable

QSFP+ to QSFP+ Cable

HGST

4U60 Storage Enclosure

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HGST guarantee

- – Helium Drive for 480TB version
- – Gold qualified PSU with integrated fan

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4U60 Storage Enclosure
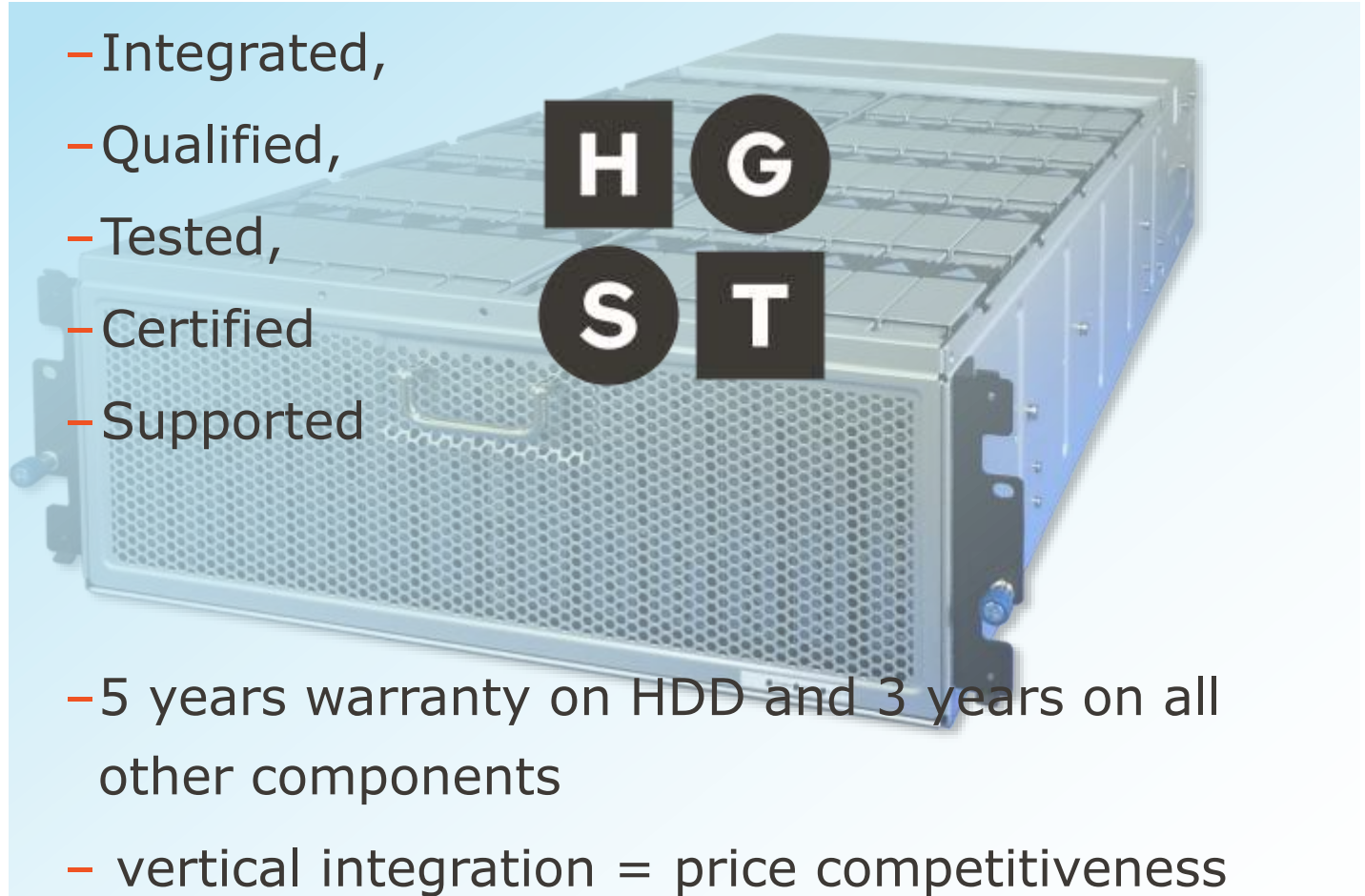
Key values

Enterprise Class

High Quality

Special Features

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HGST guarantee

- Integrated,
- Qualified,
- Tested,
- Certified
- Supported

- 5 years warranty on HDD and 3 years on all other components
- vertical integration = price competitiveness

JBOD program

CRU's for onsite replacement

Below is a suggested list for customers that will be doing onsite replacement

- System Level CRUs
  - PSU: 1EX0081
  - Chassis, Drive board and PIB only: 1EX0082
  - IO Module: 1EX0080
  - Host Cable, HD Mini-SAS-to-QSFP+, 2m: 1EX0085
  - Power Cable, C13-C14, 18AWG, 1.5m: 1EX0084
  - Expansion Cable, QSFP+ to QSFP+, 2m: 1EX0094

- HDD CRUs
  - Drive Modules
  - 2 modules on hand recommended
  - Choose one based on your configuration

4U60 JBOD Cable Requirements

Must Add to All Orders

- The product does **<u>not</u>** include the following cables, and you must add to your order if cables are needed:
  - Host cable: mini SAS HD to QSFP+ (Part Number: 1EX0085)
  - Daisy chain cable: QSFP+ to QSFP+ (Part Number: 1EX0094)

- In order to have the cables ship in the Storage Enclosure packaging the cables **<u>must</u>** be on the same sales order

- If the order has multiple 4U60's on it, the cables might be shipped separately

- If the cables are on a different sales order – they will be shipped in separate packaging

- The Storage Enclosure does include power cables
  - 2x C13-C14 Power cables. This power cable can be used in both NA and EMEA

Thank You