

ABILITY 4U 84-Bay EBOD
Ultra-Dense, Cost-Effective SAS/SSD Storage
Expansion**4U (84) 3.5" Drive Enclosures**

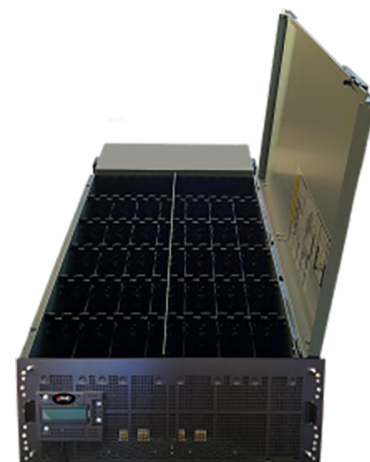
Data storage capacity continues to expand exponentially. Today's business environment requires simple, easy ways to dramatically grow online disk capacity to meet expanding data growth rates. The newest generation of our Ability 4U 84-Bay JBOD with HGST 10TB offers drives capable of storing up to 840TB of raw storage capacity.

Standalone JBOD + Expansion for GPFS, Lustre and More

Besides functioning as a standalone external Direct Attached Storage (DAS) JBOD for standard serial attached SCSI (SAS) host connects, this EBOD is Certified for Microsoft Windows Server 2016 Storage Spaces and compatible with Microsoft Windows Server 2012 R2 while primed to make an impact in Software-Defined Storage Infrastructures for other storage applications like ZFS, Luster/ZFS, Custom GPFS Solutions, Open Cloud OpenStack, High Density Storage Archiving, Cloud Backup / Data Replication and Video Streaming or Surveillance..

The 4U 84-Bay Ultra-Dense 12Gb/s SAS/SATA Ability EBOD, short for enterprise-class JBOD, solution enables massive data capacity applications, at a price/performance point per Gigabyte (GB) that meets your fast-moving business requirements. Besides functioning as a standalone external direct attached storage (DAS) JBOD for standalone serial attached SCSI (SAS) host connect, it is a perfect expansion comparison for other RAID Inc. storage products.

With up to 84 3.5" form factor 7.2k SAS/SATA Hard Disk Drives (HDDs) or 2.5" 10kSAS/SSDs per 4U enclosure, the industry-unique EBOD is an ultra-dense, space and power savings solution. The 4U Ability EBOD fits nicely into a standard 19" wide, 1m long, 42U rack that easily creates a 126TB/U (w/ 6TB HDDs) data expansion building block that can be zoned* up to four different DAS hosts or four different zones for performance or security. Additional JBODs can be daisy chained to support deeper storage pools as supported by industry standard SAS HBAs and SAS RAID HBAs.

**Advantages**

- Massive high density enclosure with 84-bays for end-to-end next gen 12Gb/s SAS performance tuned for software defined storage mixed use of HDD/SSD
- Supports 3.5" HDDs, 2.5" SAS/SSDs
- Dual 12 Gb SAS I/O modules for redundant failover multiple Drive partitioning/split-bus zoning modes
- Ten 12Gb/sec SAS 3.0 host ports – 5 per I/O module
- Hot-plug I/O modules and dual redundant high efficiency power/cooling
- SAS point-to-point connectivity isolates drive failures, increasing reliability and fault tolerance, and improving performance
- Expansion capability up to 252 drives Dual 12Gb SAS I/O modules with integral data path redundancy

Ability 4U 84-Bay EBOD Series

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| Specifications | <ul style="list-style-type: none"> • Enclosure Form Factor: 4U Form Factor • Drive Support: 12/6Gb/s SAS, SSD <ul style="list-style-type: none"> ◦ Inter-Mix Drive Types and Capacities • Maximum Number of Drives: 84 • Number of SAS IO Modules: 2 • Number of SAS Ports per Module: 5 |
| System Availability/Redundancy | <ul style="list-style-type: none"> • IO Modules: Dual-redundant and hot-swappable • Power and Cooling Modules: Dual-redundant and hot-swappable • Disk Drives: Redundant and hot-swappable |
| Notifications and Monitoring | <ul style="list-style-type: none"> • Enclosure Management: SCSI Enclosure Services (SES) • LED Indicators: Status, Power, Monitoring, Activity |
| Dimensions | <ul style="list-style-type: none"> • Height mm (in): 4U 175.3 (6.9) • Width mm (in): 482 (19.0) • Depth without bezel (LCD) and cable management mm (in): 895.8 (35.2) • Weight without Drives kg (lbs.): 49.28 (108.6) • Weight with 84 x 4TB SATA Drives kg (lbs.): 107.6 (237.2) |
| Environmental and Power | <ul style="list-style-type: none"> • Operational Altitude m (ft.): -61 to 3048 (-200 to 10,000) • Non-operational Altitude m (ft.): -61 to 3048 (-200 to 10,000) • Voltage: 200-240V • Frequency: 60/50Hz • Power Conversion Efficiency: 92% at 50% load • Non-operational Temperature Range in °C (°F): 5 to 45 (41 to 113) • Relative Humidity – Operating: 20% to 80% non-condensing <ul style="list-style-type: none"> ◦ At sea-level with 2% derating per 1000 ft. of altitude • Relative Humidity – Non-operating: 10% to 90% non-condensing |
| Vibration and Shock | <ul style="list-style-type: none"> • Operational Shock: 5 G, 0 –peak 11 ms half sine • Non-operational Shock: 10 G, 0 –peak 11 ms half sine • Operational Vibration: Random 0.15 Grms 5-500 Hz • Non-operational Vibration: Random 0.5 Grms 5-500 Hz • Acoustics (@23°C): Sound Power Operating max <86dB |
| Safety and Regulatory Agency Approvals | <ul style="list-style-type: none"> • Agency Certifications: CSA, EMI, FCC Class A, CE, CCC, TUV-GS, CB, CE, VCCI |

About



RAID Inc. was founded in 1994 to deliver end-to-end performance-driven technical computing and storage solutions. The company has earned industry praise for providing platform agnostic technical guidance in high performance computing (HPC), big data, cloud and software-defined data centers—in the most efficient, reliable and cost effective manner. The world’s leading research facilities, government, life science, financial, healthcare, energy, and cloud service providers can leverage the our team of engineers’ extensive academic, research lab and commercial expertise that makes RAID Inc. a trusted industry leader. For more information, visit our website www.raidinc.com or call 1.800.330.7335.