

ABILITY 4U 90-BAY EBOD

Highlights

Enclosure Form Factor
4U, Conforms to EIA-310-D Specifications

Drive Support
12Gb/s SAS Rotational and SSD, Intermix Drive Types and Capacities

Maximum Number of Drives
90

Number of SAS I/O Modules
2

Number of SAS Ports per Module
4



RAID Inc. continues to push the density envelope with the next generation Ability drive enclosure, which can handle up to 90 SAS HDDs or SSDs in just 4U rack space. This gives customers the ability to store over

10PB in a single datacenter rack. Data intensive workflows require the ultimate in density to handle the sheer capacity required, and need to do so in an efficient package. The Ability 4U 90-Bay EBOD is a high-density disk drive enclosure, that when used with supported storage platforms, dramatically reduces the total cost of ownership for organizations facing these requirements and delivers unprecedented levels of performance and scalability.

The Ability 4U 90-Bay EBOD provides multiple, redundant 12Gb/s SAS data paths from host interfaces to drives, eliminating single points of failure and ensuring the highest levels of business continuity. It provides the ability to freely intermix and build tiers of SAS and SSD drives, allowing administrators to optimize their storage requirements between high performance flash and bulk data storage. This translates into a no compromise, flexible, tiered storage solution optimized for both application performance and data availability.

Technical Specifications

Dimensions

| | |
|---|----------------------|
| Height | 4U 175.3 mm (6.9 in) |
| Width | 446 mm (17.5 in) |
| Depth Without Bezel | 1080 mm (42.5 in) |
| Weight (Without Drives) | 41kg (91lbs) |
| Weight (With 90 SAS Rotational Drives) | 118 kg (260 lbs) |

System Availability/Redundancy

| | |
|----------------------------------|----------------------------------|
| IO Modules | Dual-redundant and hot-swappable |
| Power Supplies | 4 (2+2) hot-swappable |
| Disk Drives | Redundant and hot-swappable |
| Cooling Fans | Hot-Swappable (5) |
| Enclosure Services Module | Redundant and hot-swappable |

Technical Specifications (continued)

Vibration And Shock

| | |
|---------------------------|-----------------------------|
| Operational Shock | 10G 0 – peak 5ms half sine |
| Non-Operational Shock | 10G 0 – peak 11ms half sine |
| Operational Vibration | Random 0.278 Grms 5-500Hz |
| Non-Operational Vibration | Random 0.880 Grms 2-200Hz |
| Acoustics (@23 °C) | <8 bels |

Environmental And Power

| | |
|-----------------------------------|--|
| Operational Altitude | 3050 m (10,006 ft) |
| Non-Operational Altitude | 12,000 m max (39,370 ft max) |
| Voltage | 200 - 240 VAC |
| Frequency | 60/50Hz |
| Power Conversion Efficiency | 80+ Platinum |
| Power Supply | 4 x 1200 watts |
| Drive Slot Power (Max) | 13 Watts |
| Airflow | 181 CFM max @100% fan speed |
| Operational Temperature Range | 5°C to 35°C (41°F to 95°F) *At sea-level with 2% derating per 1,000 ft of altitude |
| Non-Operational Temperature Range | -40°C to 60°C (-40°F to 140°F) |
| Relative Humidity: Operating | 8% to 85% non-condensing |
| Relative Humidity: Non-Operating | 8% to 95% non-condensing |

Notifications And Monitoring

| | |
|---------------------|---|
| Endosure Management | SCSI Enclosure Services (SES) |
| LCD Display | Status, Power, Environmental Monitoring |
| LED Indicators | Power, Status, Monitoring, Drive Activity |

Safety and Regulatory Agency Approvals

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 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.