

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	482 mm (19 in)
Depth Without Bezel (LCD) and Cable Management	1010 mm (39.8 in)
Depth With Bezel (LCD) and Cable Management	1098 mm (43.2 in)
Weight (Without Drives)	41kg (91lbs)
Weight (With 90 SAS Rotational Drives)	113 kg (250 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	-61M to 3048 M (-200 ft to 10,000 ft)
Non-Operational Altitude	-61 M to 3048 M (-200 ft to 10,000 ft)
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	5°C to 45°C (41°F to 113°F)
Relative Humidity: Operating	20% to 80% non-condensing
Relative Humidity: Non-Operating	10% to 90% 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.