

**Boost Performance – Economically**

RAID Incorporated’s 2U 24-Bay SSD Ability JBOF is a purpose-built flash storage solution designed for mid-level storage application utilizing the latest 12G SAS architecture with ability to scale in capacity simply and boost performance economically.



**Efficient Growth & Performance**

The system is capable of providing up to 1.2 GB/s sequential read/write and handling up to 15TB SSD capacity per slot (up to 360TB total per 2U rack space). With subzero millisecond latency and delivery of up to 740,000 IOPS, the release of the Ability 2U 24-Bay JBOF signifies a RAID Inc.’s expansion of its portfolio to include purpose-built flash-based storage products as a solution for application bottlenecks.

**Ideal for High Performance Applications, Object, Database, and Metadata Operations**

The Ability 2U 24-Bay JBOF can expand to up to 10 JBOF’s and connects via 12G SAS. There are a total of 6 SAS ports across dual I/O modules – the I/O modules, fans and power supplies are all hot swappable – and redundant so that there is no single point of failure on the JBOF. Ideal for high performance applications, object, database, and metadata operations.

**Transfer Data Fast With A 12Gb/s SAS Interface**

The Ability 2U 24-Bay SAS/SSD JBOF can get data to applications fast with up to 12Gb/s speed, right-sized capacity, and effective maximum throughput of 14.4GB/s in a single I/O module or 28.8GB/s in a dual controller configuration.

**Enhanced Security**

The Ability 2U 24-Bay JBOF also offers FIPS-2 and TAA certified media options to ensure stringent compliance needs are met.

**Ensure Applications Have Access to Critical Data**

Safeguard your data with fault diagnosis, resolution capabilities, persistent error logging, and monitoring while ensuring maximum availability and harnessing high-availability features such as dual PCMs and I/O modules, as well as dual data paths to all drives.

**Highlights**



Save space with up to 24 SFF Drives in a 2U Rackmount Enclosure



Use the latest Drive Technologies



Expansion for high-performance deployments



Ensure data is available with N+1 PCMs, I/O modules, and dual data paths to all drives



Safeguard data with intelligent fault diagnosis, resolution capabilities, persistent error logging, and monitoring



Maximum of 28.8GB/s in a dual controller configuration

# Technical Specifications

System Features

Controller: Dual I/O modules per enclosure  
Host/Expansion Interface: Three universal x4 12Gb/s mini-SAS HD connectors (SFF-8644) per I/O module  
Maximum System Configuration: 10 Total Enclosures including Master  
Device Support: Dual-port 12Gb/s and 6Gb/s SAS drives  
Max Drives per Enclosure: 24 (for a full list of supported drives, please contact your account or sales manager)  
Hot-Swappable Components: Drives, power cooling modules (PCM), and SBB I/O modules  
Security: Encryption | FIPS-2 and TAA Drive Support

Physical

Height: 88.9mm / 3.5 in (2 EIA units) | Width: 483mm / 19 in (IEC rack compliant) | Depth: 630mm / 24.8 in | Weight: 24kg / 53 lb (with drives)

Power Requirements - AC Input

Input Power Requirements: 90VAC-264VAC, 50Hz/60Hz  
Max Power Output per PSU: 580W

Environmental/ Temperature Ranges

Operating/Nonoperating Altitude: 0m to 3000m (0 ft to 10,000 ft) / -300m to 12,192m (-1000 ft to 40,000 ft)  
Operating/Nonoperating Temperature: ASHRAE A3, 5°C to 40°C (41°F to 104°F), derate 1°C/175m above 900m, 20°C/hr max rate of change / -40°C to 70°C (-40°F to 158°F)  
Operating/Nonoperating Humidity: -12°C DP and 10% RH to 21°C DP and 80% RH, max DP 21°C / 5% to 100% noncondensing  
Operating/Nonoperating Shock: 5 Gs, 10ms, half sine pulses / 15 Gs, 10ms, half sine pulses  
Operating/Nonoperating Vibration: 0.21 Gs rms (5-500Hz) / 1.04 Gs rms (2-200Hz)

Power Supply Units

Ecodesign – Gold  
Power Efficiency 115VAC/60Hz|230VAC50/Hz  
10% Load =>80%|>80%  
20% Load =>87%|>88%  
50% Load =>90%|>92%  
100% Load =>87%|>88%

Power Factor Condition  
10% Loading = N/A  
20% Loading = >0.90  
50% Loading = >0.90  
100% Loading = >0.95

Ecodesign – Platinum  
Power Efficiency 115VAC/60Hz|230VAC50/Hz  
10% Load =>80%|>80%  
20% Load =>90%|>90%  
50% Load =>92%|>94%  
100% Load =>89%|>91%

Power Factor Condition (PFC)  
10% Loading = N/A  
20% Loading = >0.90  
50% Loading = >0.95  
100% Loading = >0.95



RAID Inc. was founded in 1994 to deliver high-performance 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 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 <https://www.raidinc.com/> or call 1.800.330.7335.