JBOD **ENCLOSURES**

Rugged storage array satisfying advanced storage requirements with limitless capacity for sensitive data, rapidly accessed and protected using fast NVMe SSDs and a secure host.

LIGHT, DURABLE, READY FOR EXTREMES

Much lighter yet more rugged than any solution on the market. SWaP optimized for field-deployment.

ULTRA-FAST READ/WRITE SPEEDS

Quickly store and retrieve large amounts of critical data in seconds with 27.2 GBs read/write speeds.

FULL CONTROL & CONFIGURABILITY

Drive magazines that hold 8 drives at once or 24 individually removable drives enable quick removal and replacement.

RSC2403

RSC2424

Overview

The field-tested, long-life, military-grade JBOD equips the warfighters and service members of the future with a superior data acquisition, management, and storage solution that survives extreme conditions.

Defends against attacks on sensitive data and satisfy the modern demands of data-capturing embedded computers at the edge, all from a SWaP-optimized 2U chassis.

SOLUTION HIGHLIGHTS

Strict revision control is achieved through Trenton Systems' approved vendor list (AVL), ensuring engineer-vetted parts.

Crafted in a USA facility by security-conscious software, mechanical, and electrical engineers, TAA & BAA-approved.

Counterfeit Protection Program helps Trenton detect, remove, discard, document, and report suspected counterfeit electronics.

Vetted supply chain helps protect your system from potentially compromised electronic parts and components.

In-house engineers (hardware, software, mechanical, and electrical) control the design of your system down to the board and chip level.

TAA Compliance is achieved because Trenton Systems manufactures its solutions in the United States.

Technical Overview

SPECIFICATION	DETAILS
Storage	24x U.2 NVMe PCIe 3.0 SSDs (FIPS 140-2/3 available)
Form Factors	2U chassis at 16.2" depth
PCIe Interconnect	2x PEX 9765 boards with 2x PCIe 3.0 8x uplinks
Power	1x 900W, non-redundant, non-461, removable

Solution Specs

PCIe SWITCH BOARD

- ▶ 2x PEX 9765 each supporting 2x PCIe Gen3 8x uplink
  - Each drive comes with a full x4 Gen3 uplink to a switch
  - Host server contains industry standard x16 PCIe 3.0 uplink card
- ▶ Supports 1+1 host failover in both transparent and non-transparent modes
- ▶ Operational configuration controllable via integrated baseband controller

I/O

Rear

- ▶ 8x SFF-8644 connectors (32 total lanes)
- ▶ 2x GbE Ethernet ports 10/100/1000 (management)
- ▶ 4x DIP switches for high-availability/high-performance configuration purposes

SYSTEM COOLING (BMC Controlled)

- ▶ 9x 40mm fans, front to rear
  - 3 fan modules per magazine - attached to the chassis
  - Fan speed control via system management interface

ENVIRONMENTAL SPECIFICATIONS

- ▶ Operating Temperature: 0°C - 45°C
- ▶ Humidity: 5% - 90% non-condensing
- ▶ Shock: 20g
- ▶ Vibration: 1Grms
- ▶ Altitude: 10,000 ft (3,048m)

Preliminary numbers noted. Final numbers expected to outperform current specifications.
Conformal coating available upon request.

SYSTEM VARIATIONS

#	SYSTEM	DRIVES	POWER	DEPTH
1	RSC2403, 3MAG (2U)	3 FRONT-REMOVABLE MAGAZINES, EACH WITH 8 NVME DRIVES	1X 900W, NON-REDUNDANT, NON-461, REMOVABLE	16.2"
2	RSC2424, 24EVO (2U)	24 FRONT-REMOVABLE NVME DRIVES	1X 900W, NON-REDUNDANT, NON-461, REMOVABLE	16.2"
3	STORAGE ARRAY	FRONT-REMOVABLE NVME DRIVES	MID WATTAGE, NON-REDUNDANT, NON-461, REMOVABLE	16.2"

JBOD Enclosures can be customized to your most complex technical, performance, and environmental specifications in consultation with our team.

Contact us for pricing and availability.

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