DATASHEET

Centauri Storage Expansion

Part Number: OSS-EXS-C4B

FEATURES

- Bulk removable 8-bay storage canister
- Up to 256 TB of storage capacity per canister
- Unique half-rack, short-depth form factor
- PCIe 4.0 x16 SFF-8644 host uplink
- BMC and fan control

As the latest product in One Stop Systems' line of PCIe storage expansion, Centauri offers high-capacity storage in a compact chassis. Built as a modular storage expansion to the OSS 3U SDS, Centauri can store up to 256 TB in its 8-drive canister. These canisters allow for tool-less bulk or individual drive removal and can be hot-swapped for ease of use in fast-paced environments. The system is compatible with 2.5" NVMe drives, and its PCIe Gen4 hardware facilitates high-speed storage throughput.

Centauri is designed to meet MIL-STD-810G ruggedization requirements. With its 3U form factor, half rack width, and short 20" depth, Centauri is the ideal system for fast storage and easy media removability in autonomous trucks, military vehicles, and aircraft. Additional features include dynamic fan speed control, lightweight aluminum enclosure, and IPMI 2.0 based system monitoring on dedicated Ethernet.

Upon request, an OSS sales engineer can assist in configuring Centauri to meet the specific needs of the most demanding applications.

SPECIFICATIONS

Enclosure	Dimensions: 3U, 8.5"W x 20"D x 5.25" H Weight: 13 lbs with drives Aesthetics: Aluminum Chassis, black liquid paint exterior Capacity: 256TB per 3U system using 32TB NVMe drives
Storage Options	Drives: Up to eight (8) U.2/U.3 PCIe 3.0 or 4.0 x4 NVMe solid-state drives (SSD)
Operating Systems	Supports servers and initiators running Microsoft Windows, Windows Server, Linux, and UNIX
Expansion	Multiple Centauri can be connected through available PCIe x16 slots in a host server
System Management	IPMI 2.0 compliant BMC monitors and controls fans, power supplies, temperature sensors & I2C devices
Management GUI	Web server accessible over RJ-45 Ethernet port on rear of chassis.
LED Indicators	LEDs on the front panel indicating drive activity, power status and system ID
RAID	Software RAID level support provided by the server, ION Accelerator or Zion Software
Service Management	1 Ethernet connector for connection to system monitoring tool Supports CLI, web GUI and SNMP management options
Vibration	Operating vibration: 5-17 Hz 0.5" double amplitude displacement; 7-2000Hz, 1.5g acceleration Storage/transport vibration: 2g @ 5-500 Hz. Operating shock: 20g @ 11 msec Storage/transport shock: 30g @ 11 msec.

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SPECIFICATIONS CONTINUED

Power Supply	Dual 1600-Watt Common Redundant Power Supply (CRPS) Input voltage options: o 100-240 VAC Full Range o 48V DC o Frequency range: 50/60 Hz o Amperage: 10A (RMS) for 115V, 5A (RMS) for 208V (estimated) o Efficiency: Typical 90%
Operating Environment	10° to 50°C with maximum temperature gradation of 5°C per hour, -16 to 3048 meters (-50 to 10,000 feet) 5% to 90% (non-condensing) with maximum humidity gradation of 10% per hour
Storage Environment	-40° to 70°C (-40° to 158° F) with maximum temperature gradation of 20°C per hour 5% to 95% (non-condensing)
Agency Compliance (Designed to Meet)	Designed to meet the following agency standards: o FCC - Part 15 Class A, 47CFR; Canada ICES-003, issue 4, Class A; Japan: VCCI, Class A; CE Emission 2004-108EC o UL/IEC 62368-1; Canada: CSA C22.2 No.62368-1; Argentina: IEC62368-1; IEC 62368-1 (CB Certificate and CB Test Report) o CE Mark (EN 55022 Class A, EN 62368-1, EN 55024, EN61000-3-2, EN61000-3-3) o CISPR 22, Class A; Australia/New Zealand AS/NZS CIS PR 22, Class A o RoHS 3 Compliance (Directive 2015/863/EC)