

StorageBox 2000

PCIe 4.0 All-Flash Storage Solution (Part number: OSS-SB2000-24)

Features

- 24x hot-swap U.2/U.3 PCIe 3.0 or 4.0 NVMe, SATA or SAS drives
- Up to 720TB of storage capacity per 2U chassis
- 186GB/s total drive throughput (7.76Gb/s per U.3 port)
- Remove SSDs individually or in 3 separate 8-drive cannisters
- SAN, NAS, JBOF, EBOF or NVMe-oF configurations
- Dual PCIe 4.0 x16 SFF-8644 host uplinks or ARM SmartNICs
- Quad PCIe 4.0 x16 expansion slots (2 HLHH and 2 HLFH)
- 2U, 18" depth rack mount enclosure
- IPMI BMC and web interface

System

Dimensions: 2U, 18" rack mount, 17.2" W x 18" D x 3.5" H (44.45cm x 45.72cm x 8.89cm)

Weight: 32 lbs with drives (14.5kg)

Aesthetics: Steel with medium texture, liquid paint front panel with 24 drives in 8-drive canisters

Rack support: Toolless rack slides, rack ears with handles

Drives: Up to 24 U.2/U.3 PCIe 3.0 or 4.0 x4 NVMe, SATA or SAS solid-state drives (SSD)

Capacity: 720TB per 2U system using 30TB NVMe drives

Enclosure

Storage options

JBOF/FBOF:

- Stand-alone 2U SB2000 unit offers up to 2 PCIe 4.0 x16 host interfaces, providing over 512GB/s total bandwidth to composable infrastructure or direct attached systems

OSS Ion Accelerator SAN:

- 2U SB2000-24 and 2U EOS-4 server supporting NVMe-oF, iSCSI, SRP or Infiniband protocols
- Up to 10x 32GB Fibre Channel, 4x 100GB Ethernet or 4x 200GB Infiniband network connections

- Ion Accelerator 5.2 kernel-level software with snapshot

OSS Zion NAS:

- 2U SB2000 with two PCIe 4.0 ARM SmartNIC adapters
- Supports 4x 100GB Ethernet or 2x 200GB Infiniband network connections
- Supports hardware accelerated encryption to FIPS-140-2 Level 1:
 - AES-GCM 128/256 bit data-in-motion encryption
 - AES-XTS 256/512 bit data-at-rest encryption

Operating systems

Supports servers and initiators running Microsoft Windows, Windows Server, Linux, UNIX, Solaris and Hypervisors

Expansion

Multiple SB2000 can be connected through an 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 or 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

Front



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Service Management	2 Ethernet connectors for connection to system monitoring tool Supports CLI, web GUI and SNMP management options
Vibration	Operation Vibration: 5-17Hz 0.5" double amplitude displacement; 7-2000Hz, 1.6g acceleration Storage / transport vibration: 2g @ 5-500Hz Operating shock: 20g @ 11 msec Storage / transport shock: 30g @ 11 msec
Cooling	Five 30.2 CFM fans for drivers plus one fan in each power supply module
Power supply	1000 Watt Common Redundant Power Supply (CRPS) Input voltage range: 100-240 VAC Full Range Frequency range: 50/60Hz Amperage: 10A (RMS) for 115V, 5A (RMS) for 208V (estimated) Total power to the system: 1000W redundant Efficiency: Typical 90%
Operating environment	5° to 40°C with maximum temperature gradation of 10°C per hour, -16 to 3048 meters (-50 to 10,000 feet) 8% to 85% (non-condensing) with maximum humidity gradation of 10% per hour
Storage environment	-40° to 65°C (-40° to 149° F) with maximum temperature gradation of 20°C per hour 5% to 95% (non-condensing)
Agency compliance	FCC - Verified to comply with Part 15 of the FCC Rules, Class A Canada ICES-003, issue 4, Class A UL/IEC 60950-1 CSA C22.2 No. 60950-1 IEC 60950-1 (CB Certificate and CB Test Report) CE Mark (EN55022 Class A, EN60950-1, EN55024, EN61000-3-2, EN61000-3-3) CISPR 22, Class A WEEE (EU 2012/19) & RoHS 3 (EU 2015/863)

Technical drawing

