



OSS
ONE STOP SYSTEMS

unitronix
THE EMBEDDED EDGE

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DATASHEET

Torrey Reef

Part Number: OSS-SDS-2U-5a

FEATURES

- 3.5" H x 19" W x 20" D
- 3x PCIe Gen5 x16 FHFL expansion slots
- Up to 2x hot-swappable 125 TB drive canisters with individually removable 15.6 TB FIPS compliant E1.S Gen5 NVMe SSDs
- AMD EPYC™ 9005/9004 series CPU
- 2x redundant hot-swappable 3200W CRPS 185mm PSUs
- Hot-swappable 56mm and 80mm counter rotating fans
- MIL-STD-810H certified
- OSS U-BMC 2.0 enabled
- Pending NVIDIA certification



The Torrey Reef 2U short-depth server is designed for edge markets, featuring OSS's proprietary core IP. Pending NVIDIA certification, this advanced server offers comprehensive system management, hot-swappable drive canister with individually removable drives, and extensive PCIe capabilities. At 20" depth, the Torrey Reef offers multiple PCIe expansion slots, dual CRPS 185mm PSUs, hot-swappable fans, MIL-STD-810H certification, and is OSS U-BMC 2.0 enabled. By utilizing NVIDIA's open "MGX" reference designs, it rapidly integrates the latest GPU technologies.

SPECIFICATIONS

Expansion Slots	Up to 3x x16 FHFL expansion slots
CPU	AMD EPYC™ 9005/9004 series processors
System Memory	12x DDR5-4800 RDIMM slots Up to 6 TB RDIMM-3DS memory (512 GB per slot)
Storage Subsystem	Up to 2x hot-swappable 125 TB drive packs: • up to 8x 15.6 TB FIPS compliant E1.S Gen5 NVMe SSDs per drive pack • bulk-removable and single-removable drives
Dimensions	2U height (3.5" H x 19" W x 20" D)
USB	• 2x USB 3.0 ports (front panel) • 2x USB 3.0 ports (rear panel)
Network	U-BMC: 1x RJ-45 1GbE (front) IPMI: 1x RJ-45 1GbE (rear) Network: 2x SFP28 25GbE, 1x OCP NIC 3.0
Cooling	Hot-swappable: • 40mm x 56mm counter rotating fans • 60mm x 76mm counter rotating fans Liquid cooling available upon request
Chassis	Lightweight aluminum enclosure
Weight	30 lbs
Power Supply	• Dual N+1 redundant 3200W 215V AC CRPS • Dual N+1 redundant 1500W 115V AC 60Hz single-phase input CRPS • Dual N+1 redundant 1500W 48V DC CRPS

SPECIFICATIONS CONTINUED

Part Number: OSS-SDS-2U-5a

Agency (testing pending)	MIL-STD-810H MIL-STD-461 FCC Class A CE Safety & Emissions UL cUL TUV-GS (EN60950-1/IEC60950-1, EK1-ITB2000)
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