

Liquid-Cooled PCIe Gen 5 3U Short Depth Server

Part Number: OSS-SDS-3U-5a

FEATURES

- ASROCK GENOAD8X-2T Motherboard
- Supports 1S AMD EPYC 9004 Series Processors
- 20" depth
- 2x Internal PCIe 5.0 M.2 Boot Drives
- 7 x16 PCIe 5.0 expansion slots
- U-BMC System Monitoring
- Liquid-Cooling hardware for CPU/GPUs
- Guaranteed to operate with all OSS expansion products



The Gen 5 SDS is a hyperconverged datacenter classserver that supports configurations of up to 4 of the worlds most powerful GPUs, the lowest latency, highest bandwidth PCIe scale-out expansion systems,extreme 400Gbps networking solutions and the most secure advanced system management, monitoring and control. This allows a single short-depth server platform tobring the compute power of the datacenter to the rugged edge to perform many missions, such as high-performance AI inference of up to 35 simultaneous AI workloads. Equipped with a suite of liquid-cooling hardware, this configuration of the 3USDS supports increased cooling to compatible CPUs and GPUs, making it perfect for edge computing in extreme applications.

SPECIFICATIONS

Dimensions	5.2" H x 17.2" (19.2" with rack ears) W x 20.0" D
CPUs	AMD EPYC™ 9004 (Genoa) Series Processors up to 400W TDP with optional liquid cooler or 260W air cooled
System Memory	8x DDR5 4800/4000 RDIMM slots Up to 2TB RDIMM/3DS RDIMMDDR5 4800/4000 memory 8 Memory Channels, 1.1V DIMMs
Expansion Slots	7x PCIe 5.0 x16 Full Height, 10.5" length slots
Storage Subsystem	4 Internal SATA-3 connectors 2 Internal M.2(Pcie 5.0 x4) connectors 4 Internal MCIO x4 U.2 NVMe connectors Further expansion up to 4PB possible using OSS JBOF expansion systems such as OSS 4UPro or SB2000
USB	2x USB 3.2
Ethernet	2x RJ45 10GBE Ports from Intel I210-AT 1 x RJ45 Dedicated IPMI LAN port
BIOS	256 MB AMI UEFI BIOS
Cooling Fans	236mL Coolant Reservoir Koolance 702 Liquid Coolant 12V 16L/min Coolant Pump3 120mm fans in front panel
Chassis	Rugged and lightweight aluminum construction
Weight	50lbs

SPECIFICATIONS CONTINUED

Power Supply	Dual N+1 2600-watt AC 110-240V CPRS Power Supplies Dual N+1 48V DC Input CRPS Power Supplies
Environment	Liquid-cooled Operating: - o -20°C to 50°C (-4°F to 122°F) at 0 to 3,000m (10,000ft) altitude - o 5% to 90% non-condensing relative humidity, max dew point 21°C, max rate of change 5°C/hr - o 60dB nominal noise at 1m Non-Operating: - o -40°C to 70°C (-40°F to 158°F) - o 5% to 90% non-condensing relative humidity, max dew point 27°C, max rate of change 5°C/hr
Agency	Agency Certifications (testing pending) - o FCC Class A, CE Safety & Emissions, UL, cUL - o TUV-GS (EN60950-1/IEC60950-1, EK1-ITB2000) - o MIL-STD-810G Designed to conform to the following extended standards: - o NOM-019 - o Canada ICES-003, issue 4, Class A - o Argentina IEC60950-1 - o Japan VCCI, Class A - o Australia/New Zealand AS/NZS CISPR 22, Class A - o Taiwan BSMI CNS13438, Class A; CNS14336-1 - o Korea KN22, Class A; KN24
Compliance	RoHS 3, WEEE