

# PCIe Gen 5 3U Short Depth Server

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

## FEATURES

- Supports 1S AMD EPYC 9004 Series Processors
- 20" depth
- 2x Internal PCIe 5.0 M.2 Boot Drives
- 8 or 16 U.2/U.3 SATA/SAS/NVMe drives
- Up to 5 x16 PCIe 5.0 expansion slots
- U-BMC System Monitoring
- Air-cooled or liquid-cooled configurations



The Gen 5 SDS is a hyperconverged datacenter class server that supports configurations of up to 5 of the worlds most powerful GPUs, 16 of the fastest NVMe solid state storage devices, the lowest latency, highest bandwidth PCIe scale-out expansion systems, the highest performance SAN & NAS storage software, extreme 400Gbps networking solutions and the most secure advanced system management, monitoring and control. This allows a single short-depth server platform to bring the compute power of the datacenter to the rugged edge to perform many missions from high-performance AI inference of up to 35 simultaneous AI workloads, high-speed transportable data recorder/logger with hot-swap drive packs with up to 1 petabyte capacity or a rugged SAN or NAS data storage unit or data logger.

## 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 per CPU socket Up to 2TB RDIMM/3DS RDIMM DDR5 4800/4000 memory 8 Memory Channels, 1.1V DIMMs
Expansion Slots	5x PCIe 5.0 x16 Full Height, 10.5" length slots
Storage Subsystem	8 or 16 hot-swap configurable SATA-3, SAS-3 or NVMe x4 2.5" x 15mm drive carriers <ul style="list-style-type: none"> <li>o 12Gb SAS-3 or 6Gb SATA-3 SFF-8680 slots -or-</li> <li>o NVMe x4 32Gb slots</li> </ul> 4 Internal SATA-3 connectors 2 Internal Mini-SAS HD (SFF-8643) connectors 2 Internal MCIO x4 U.2 NVMe connectors 2 Internal MCIO x8 U.2 NVMe connectors Further expansion up to 4PB possible using OSS JBOF expansion systems such as SB2000 or 4UPro
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	(6) 40x56mm and (1) 80x38mm high powered fans mount behind front bezel and cool add-in-cards up to 350w
Chassis	Rugged and lightweight aluminum construction

SPECIFICATIONS CONTINUED

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Weight	45lbs
Power Supply	Dual N+1 2600-watt AC 110-240V CPRS Power Supplies Dual N+1 48V DC Input CRPS Power Supplies
Environment	<p>Liquid-cooled Operating:</p> <ul style="list-style-type: none"> <li>o -20°C to 50°C (-4°F to 122°F) at 0 to 3,000m (10,000ft) altitude</li> <li>o 5% to 90% non-condensing relative humidity, max dew point 21°C, max rate of change 5°C/hr</li> <li>o 60dB nominal noise at 1m</li> </ul> <p>Air-cooled Operating:</p> <ul style="list-style-type: none"> <li>o 0°C to 50°C (32°F to 122°F) at 0 to 3,000m (10,000ft) altitude*</li> <li>o 5% to 90% non-condensing relative humidity, max dew point 21°C, max rate of change 5°C/hr</li> <li>o 85dB nominal noise at 1m</li> </ul> <p>Non-Operating:</p> <ul style="list-style-type: none"> <li>o -40°C to 70°C (-40°F to 158°F)</li> <li>o 5% to 90% non-condensing relative humidity, max dew point 27°C, max rate of change 5°C/hr</li> </ul>
Agency	<p>Agency Certifications (testing pending)</p> <ul style="list-style-type: none"> <li>o FCC Class A, CE Safety &amp; Emissions, UL, cUL</li> <li>o TUV-GS (EN60950-1/IEC60950-1, EK1-ITB2000)</li> <li>o MIL-STD-810G</li> </ul> <p>Designed to conform to the following extended standards:</p> <ul style="list-style-type: none"> <li>o NOM-019</li> <li>o Canada ICES-003, issue 4, Class A</li> <li>o Argentina IEC60950-1</li> <li>o Japan VCCI, Class A</li> <li>o Australia/New Zealand AS/NZS CISPR 22, Class A</li> <li>o Taiwan BSMI CNS13438, Class A; CNS14336-1</li> <li>o Korea KN22, Class A; KN24</li> </ul>
Compliance	RoHS 3, WEEE