

PCIe Gen 4 3U Short Depth Intel Server

Part Number: OSS-SDS-3U-4i

FEATURES

- Dual Intel® Xeon™ Scalable Ice Lake Processors
- 20" Depth
- 2x Internal PCIe 4.0 M.2 Boot Drives
- 8 or 16 U.2/U.3 SATA/SAS/NVMe drives
- 4 x16 FH dual width plus 2 x16 FH and 1 x8 FH single width PCIe 4.0 slots
- Embedded Dual-Port 10 GbE Network Interfaces
- System Monitoring
- AC or DC Input Power Supplies
- Resource expanded BIOS for large expansion capability



The 20" deep SDS-3U-4i contains two Intel Scalable Processors and provides a feature packed server platform for GPU or FPGA accelerated computing, U.2/U.3 NVMe storage, or PCIe Gen 4 expansion slots. This functionality is delivered in a size efficient, edge ready rugged chassis with 3U height and 20" depth. This edge optimized server can operate stand alone as a hyperconverged PCIe Gen 4 server or form the core CPU and memory resources for a scale-out, rack level, expandable and composable solution in the shallowest available racks. The SDS-4U-4i features six PCIe Gen 4 x16 full-height slots (four of which are double-width), one PCIe Gen 4 x8 full-height slot and options for 8 or 16 SATA/

SPECIFICATIONS

Dimensions	5.2" H x 17.2" (19.2" with rack ears) W x 20.0" D
CPUs	Dual Intel® Xeon® Ice Lake Scalable CPUs up to 270W TDP and 40 cores
System Memory	16x 288-pin DDR4 DIMM sockets Up to 4TB DDR4-2933MHz 3DS ECC RDIMM or LRDIMM, 1.2V low profile
Expansion Slots	4x PCIe 4.0 x16 full height, 10.5" length, double width slots suitable for GPUs 2x PCIe 4.0 x16 full height, half length, single width slots
Storage Subsystem	8x or 16x hot-swap configurable SATA-3, SAS-3 or NVMe x4 2.5" x 15mm drive carriers <ul style="list-style-type: none"> o 12Gb SAS-3 or 6Gb SATA-3 SFF-8680 slots -or- o NVMe x4 32Gb slots Up to 8 SATA-3 slots use no PCIe slots 8x and 16x SAS-3 slots require 1 and 2 PCIe x16 HHHH slots respectively 8x and 16x NVMe x2 slots require 1 and 2 x16 PCIe HHHH slots respectively Further expansion up to 4PB possible using OSS JBOF expansion systems such as the SB2000
On-board Devices	2x Intel X550 10Gigabit Ethernet each with an RJ-45
Network Controllers	2x RJ45 10GBASE-T LAN from Intel® X550-AT2

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6x USB 3.0 with 4 on rear panel, 1x header and 1x Type A internal

Input/Output 7.1HD Audio Header, 1 VGA port, 2 COM ports (1 rear and 1 internal header)

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SPECIFICATIONS CONTINUED

BIOS	128 Mb SPI flash EEPROM with AMI BIOS Supports PnP, PCI 3.0, ACPI 1.0-4.0, USB keyboard support, UEFI 2.3.1, 1TB BAR1 max size and 256 PCI bus enumeration
Cooling Fans	(6) 40x56mm and (1) 80x38mm high powered fans mount behind front bezel and cool add-in-cards up to 300w
Chassis	Rugged and lightweight aluminum construction
Weight	45lbs
Power Supply	Dual N+1 2600 watt AC 115-240V CRPS Power Supplies
Environment	<p>Operating:</p> <ul style="list-style-type: none"> o 10°C to 35°C (50°F to 95°F) at 0 to 915m (3,000ft) altitude o 5% to 90% non-condensing relative humidity, max dew point 21°C, max rate of change 5°C/hr <p>Non-Operating:</p> <ul style="list-style-type: none"> o -40°C to 70°C (-40°F to 158°F)
Agency	<p>Tested to conform to the following standards:</p> <ul style="list-style-type: none"> o FCC - Verified to comply with Part 15 of the FCC Rules, Class A o Canada ICES-003, issue 4, Class A o CE Mark (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3) o CISPR 22, Class A o MIL-STD-810G <p>Designed to conform to the following extended standards:</p> <ul style="list-style-type: none"> o NOM-019 o Argentina IEC60950-1 o Japan VCCI, Class A o Australia/New Zealand AS/NZS CISPR 22, Class A o China CCC (GB4943), GB9254 Class A, GB17625.1 o Taiwan BSMI CNS13438, Class A; CNS14336-1 o Korea KN22, Class A; KN24 o Russia/GOST ME01, IEC-60950-1, GOST R 51318.22, GOST R 51318.24, GOST R 51317.3.2, GOST R 51317.3.3
Compliance	RoHS 3, WEEE