

UP Storage SuperServer SSG-520P-ACTR12L



Key Applications

- Enterprise Server
- Database Processing & Storage
- Appliance Optimized Storage

Key Features

Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors. Up to 270W TDP.

8 DIMMs; Supports 3DS DDR4-3200: RDIMM/LRDIMM/Intel® DCPMM

2 PCI-E 4.0 x16 (LP) slots, 2 PCI-E 4.0 x8 (LP) slots

Intel® Ethernet Controller X550 2x 10GbE RJ45

12x Direct-attached hot-swap 3.5" SAS3/SATA3 drive bays,
Onboard 1x NVMe/SATA M.2; 2x Hot-swap 2.5" NVMe/SATA (rear, optional)

Redundant Titanium 800W Power Supply

Product SKUs

- SSG-520P-ACTR12L
 - SuperServer SSG-520P-ACTR12L (Black)

Motherboard

Super X12SPI-TF

Processor

- CPU
 - Single Socket P+ (LGA 4189)
 - Support Intel® 3rd Gen Xeon® Scalable Processors
 - Support CPU TDP 270W

System Memory

- Memory
 - Memory Capacity: 8 DIMM slots
 - Up to 2TB: 8x 256 GB DRAM
 - Up to 3TB: 4x 256 GB DRAM and 4x 512 GB PMem
 - Memory Type: 3200/2933/2666MHz ECC DDR4 RDIMM;LRDIMM
 - Intel® Optane™ persistent memory 200 series

- Memory Voltage
 - 1.25 V

- Error Detection
 - Yes

On-Board Devices

- SATA
 - SATA3 (6Gbps) via C621A Chipset; RAID 0, 1, 5, 10 support

- SAS
 - SAS3 (12Gbps) via Broadcom 3816 (IT mode)

- Chipset
 - Intel® C621A

- Network Connectivity
 - 2x 10GbE BaseT with Intel® X550

- IPMI
 - Support for Intelligent Platform Management Interface v.2.0
 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output

- LAN
 - 1 RJ45 Dedicated IPMI LAN port
 - 2 RJ45 10GBase-T LAN ports

- USB
 - 4 USB 2.0 port(s) (2 headers; 2 rear)
 - 5 USB 3.2 Gen 1 port(s) (2 headers; 2 rear; 1 Type A)

- Video
 - 1 VGA port(s)

- Serial Port
 - 1 COM Port(s) (1 header)

- DOM
 - 2 SuperDOM (Disk on Module) port with built-in power

System BIOS

- BIOS Type
 - AMI 32MB SPI Flash EEPROM

Management

- Software
 - IPMI2.0
 - Redfish API
 - SSM
 - Intel® Node Manager
 - SPM
 - KVM with dedicated LAN
 - SUM
 - NMI

- Power Configurations
 - ACPI/APM Power Management

PC Health Monitoring

- CPU
 - 7+1 Phase-switching voltage regulator module (VRM)
 - Monitors for CPU Cores, Chipset Voltages, Memory

- FAN
 - Fans with tachometer monitoring
 - Pulse Width Modulated (PWM) fan connectors
 - Status monitor for speed control

- Temperature
 - Monitoring for CPU and chassis environment
 - Thermal Control for fan connectors

Chassis

- Form Factor
 - 2U Rackmount

- Model
 - CSE-826BTS-R802LPB

Dimensions and Weight

- Height
 - 3.5" (89mm)

- Width
 - 17.2" (437mm)

- Depth
 - 25.6" (650mm)

- Package
 - 11.5" (H) x 26.5" (W) x 34" (D)

- Weight
 - Net Weight: 34 lbs (15.4 kg)
 - Gross Weight: 58 lbs (26.3 kg)

- Available Color
 - Black

Front Panel

- Buttons
 - Power On/Off
 - System Reset

- LEDs
 - Device Activity
 - LAN 1 Activity
 - LAN 2 Activity
 - Power Failure LED
 - Power status
 - System information

Expansion Slots

- PCI-Express (PCI-E)
 - Slot 2: PCI-E 4.0 x8 LP
 - Slot 4: PCI-E 4.0 x16 LP
 - Slot 6: PCI-E 4.0 x16 LP
 - Slot 7: PCI-E 4.0 x8 LP

Drive Bays / Storage

- Hot-swap
 - 12x 3.5" hot-swap SATA/SAS drive bays

- M.2
 - 1x PCI-E 3.0 x4 and SATA
 - Form Factor: 2280, 22110
 - Key: M-key

- Peripheral Bays
 - 2x 2.5" SATA or NVMe drive bays (optional)

System Cooling

- Fans
 - 3x (8cm x8cm x3.8cm) heavy duty fans with optimal fan speed control

- Air Shroud
 - 1 Air Shroud(s)

Power Supply

AC 800W, Titanium Level, 100-240Vac/47-63Hz, and DC240 input

- Dimension (W x H x L)
 - 76 x 40 x 336 mm

- Output Type
 - Gold Finger

- Certification
 -  Titanium Level

[[Test Report](#)]

Operating Environment

- Environmental Spec.
 - Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
 - Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
 - Operating Relative Humidity: 8% to 90% (non-condensing)
 - Non-operating Relative Humidity: 5% to 95% (non-condensing)

Optional Parts List

	Part Number	Qty	Description
2x 2.5" NVMe Cage (Rear)	MCP-220-82619-0N + 1x CBL-SAST-1264-85	1	Rear hot-swap 2x 2.5" NVMe drive kit
2x 2.5" SATA/SAS Cage (Rear)	MCP-220-82616-0N •eStore	1	Rear hot-swap 2x 2.5" SATA/SAS drive kit
3.5" to 2.5" Converter Tray(s)	MCP-220-00043-0N •eStore	-	Hot-swap Gen-4 3.5" to 2.5" HDD tray, Black
Intel VROC RAID Key for NVMe	AOC-VROCPREMOD	1	Premium Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10/5
	AOC-VROCSTNMOD	1	Standard Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10
	AOC-VROCINTMOD	1	Intel SSD Only Upgrade module; RAID 0/1/10/5
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)
TPM	AOM-TPM-9671V-O	1	TPM 1.2, vertical form factor, provisioned for server
	AOM-TPM-9670V-O	1	TPM 2.0, vertical form factor, provisioned for server