

Storage SuperServer SSG-610P-ACR12N4H (Complete System Only)



Key Applications

- Database Applications
- Hyperscale Data Center
- Object Storage
- Big Data Analytics
- Scale-Out Density
- Hadoop & Ceph storage solutions
- Scale-out NAS

Key Features

Up to 4TB ECC DDR4-3200: LRDIMM/RDIMM

2x 25G SFP+ Ports Onboard

12x 3.5" hot-swap SAS/SATA, 4x hot-swap EDSFF Short Bays, 2x
2.5" 7mm NVMe/Hot-Swap SATA drive bays
4x E1.S (EDSFF Short) NVMe drives

RAID support via Broadcom® 3916

2x 25Gb SFP28 onboard
Front LED Indicator for each drive

PCI-E 4.0 x16 AIOM Support + 3 PCI-E 4.0 LP Slots

Product SKUs

- SSG-610P-ACR12N4H
 - SuperServer SSG-610P-ACR12N4H (Silver)

Motherboard

Super X12DPD-A6M25

Processor

- CPU
 - Dual Socket P+ (LGA-4189)
 - 3rd Gen Intel® Xeon® Scalable processors
 - Support CPU TDP 120-205W
- Cores
 - Up to 38C/96T; Up to 57MB Cache

System Memory

- Memory
 - Memory Capacity: 16 DIMM slots
 - Up to 4TB: 16x 256 GB DRAM
 - Memory Type: 3200MHz ECC DDR4 RDIMM;LRDIMM
- Memory Voltage
 - 1.2 V
- Error Detection
 - ECC

On-Board Devices

- Chipset
 - Intel® C621A
- Network Connectivity
 - 2x 25GbE SFP28 with Mellanox
- 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
 - 1x 25G SFP+ LAN ports
- USB
 - 2 USB 2.0 port(s) (2 Front_USB)
 - 2 USB 3.0 port(s) (2 Rear_USB)
- Video
 - 1 VGA port(s)
- Serial Port
 - 1 Serial

System BIOS

- BIOS Type
 - AMI 128MB SPI Flash EEPROM

Management

- Software
 - IPMI 2.0
 - SUM
 - NMI
 - Watch Dog
 - SuperDoctor® 5
- Power Configurations
 - ACPI Power Management
 - Power-on mode for AC power recovery

PC Health Monitoring

- CPU
 - 4+1 Phase-switching voltage regulator
 - 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
 - 1U Rackmount
- Model
 - CSV-802ETS-R804AMP

Dimensions and Weight

- Height
 - 1.7"
- Width
 - 17.6"
- Depth
 - 37"
- Package
 - 12" (H) x 27" (W) x 53.15" (D)
- Weight
 - Net Weight: 34 lbs (15.4 kg)
 - Gross Weight: 61 lbs (27.7 kg)
- Available Color
 - Silver

Front Panel

- Buttons
 - Power On/Off
- LEDs
 - HDD activity
 - Network activity
 - Power status
 - System information (overheat/UID)

Expansion Slots

- PCI-Express (PCI-E)
 - Slot 1: PCI-E 4.0 x16 LP
 - Slot 2: PCI-E 4.0 x8 LP
 - Slot 3: PCI-E 4.0 x16 LP
 - Slot 4: PCI-E 4.0 x16 AIOM
- Note
 - PCIe slot 2 is occupied by the Storage Controller

Drive Bays / Storage


- Hot-swap
 - 12x 3.5" hot-swap SATA3/SAS3 drive bays
 - 4x E1.S and 2x 2.5" 7mm
- M.2
 - 2 M.2 NVMe OR 2 M.2 SATA3
 - M-Key, 2280

System Cooling

- Fans
 - 6 Heavy Duty 4cm Fan(s)

Power Supply

800W Redundant Power Supplies with PMBus

- Dimension (W x H x L)
 - 54.5 x 40 x 220 mm
- AC Input
 - 100-127Vac / 50-60Hz
 - 200-240Vac / 50-60Hz
- DC Input
 - 230-240Vdc
- +12V
 - Max: 62.5A / Min: 0A (100Vac-127Vac)
 - Max: 66.6A / Min: 0A (200Vac-240Vac)
 - Max: 66.6A / Min: 0A (230Vdc-240Vdc)
- 5V SB
 - Max: 4A / Min: 0A
- Output Type
 - Gold Finger Connector
- Certification
 - 
Platinum Level
[\[Test Report \]](#)

Operating Environment

- RoHS
 - RoHS Compliant
- Environmental Spec.
 - Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
 - Non-operating Temperature: -40°C to 60°C (-40°F to 140°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
Network Cards	More	-	AOC Compatibility Matrix (Select Storage & X12)
	AOC-SGP-I2	-	Standard LP 2-port GbE, Intel 82575
	AOC-S40G-I2Q	-	Standard LP 2-port 40GbE controller, Intel Fortville XL710
	AOC-S25G-M2S	-	Standard LP, 2x 25GbE SFP28, Mellanox ConnectX-4 LX EN
Power Cord	CBL-PWCD-0300-IS	-	PWCD,US,IEC60320 C14 TO C13,6FT,18AWG,RoHS/REACH
	CBL-PWCD-0579	-	Power Cord Type IEC (C14 to C13) 6 ft (14AWG), 15A, 250V
	CBL-PWCD-0579-1	-	Power Cord Type IEC (C14 to C13) 6 ft (14AWG), 15A, 250V
TPM Module	AOM-TPM-9671V	-	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor
	AOM-TPM-9670V	-	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor