

Specifications

Product SKUs

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| SSG-610P-ACR12N4H | <ul style="list-style-type: none"> SuperServer SSG-610P-ACR12N4H (Silver) |
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Motherboard

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| Super X12DPD-A6M25 |
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Processor

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| CPU | <ul style="list-style-type: none"> Dual Socket P+ (LG-4189) 3rd Gen Intel® Xeon® Scalable processors Support CPU TDP 120-205W |
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System Memory

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| Memory | <ul style="list-style-type: none"> Memory Capacity: 16 DIMM slots Up to 4TB: 16x 256 GB DRAM Memory Type: 3200MHz ECC DDR4 RDIMM;LRDIMM |
| Memory Voltage | <ul style="list-style-type: none"> 1.2 V |
| Error Detection | <ul style="list-style-type: none"> ECC |

On-Board Devices

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| Chipset | <ul style="list-style-type: none"> Intel® C621A |
| Network Connectivity | <ul style="list-style-type: none"> 2x 25GbE SFP28 with Mellanox |
| IPMI | <ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual-media over LAN and KVM-over-LAN support |

Input / Output

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| LAN | <ul style="list-style-type: none"> 1 RJ45 Dedicated IPMI LAN port 1x 25G SFP+ LAN ports |
| USB | <ul style="list-style-type: none"> 2 USB 2.0 port(s) (2 Front_USB) 2 USB 3.0 port(s) (2 Rear_USB) |
| Video | <ul style="list-style-type: none"> 1 VGA port(s) |
| Serial Port | <ul style="list-style-type: none"> 1 Serial |

System BIOS

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| BIOS Type | <ul style="list-style-type: none"> AMI 128MB SPI Flash EEPROM |
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Management

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| Software | <ul style="list-style-type: none"> <u>IPMI 2.0</u> <u>SUM</u> NMI Watch Dog SuperDoctor® 5 |
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Chassis

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| Form Factor | <ul style="list-style-type: none"> 1U Rackmount |
| Model | <ul style="list-style-type: none"> CSV-802ETS-R804AMP |

Dimensions and Weight

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| Height | <ul style="list-style-type: none"> 1.7" |
| Width | <ul style="list-style-type: none"> 17.6" |
| Depth | <ul style="list-style-type: none"> 37" |
| Package | <ul style="list-style-type: none"> 12" (H) x 27" (W) x 53.15" (D) |
| Weight | <ul style="list-style-type: none"> Net Weight: 34 lbs (15.4 kg) Gross Weight: 61 lbs (27.7 kg) |
| Available Color | <ul style="list-style-type: none"> Silver |

Front Panel

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| Buttons | <ul style="list-style-type: none"> Power On/Off |
| LEDs | <ul style="list-style-type: none"> HDD activity Network activity Power status System information (overheat/UID) |

Expansion Slots

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| PCI-Express (PCI-E) | <ul style="list-style-type: none"> Slot 1: PCI-E 4.0 x16 LP Slot 2: PCI-E 4.0 x16 LP Slot 3: PCI-E 4.0 x8 LP Slot 4: PCI-E 4.0 x16 AIOM |
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Drive Bays / Storage

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| Hot-swap | <ul style="list-style-type: none"> 12x 3.5" hot-swap SATA3/SAS3 drive bays 4x E1.S and 2x 2.5" 7mm |
| M.2 | <ul style="list-style-type: none"> 2 M.2 NVMe OR 2 M.2 SATA3 M-Key, 2280 |

System Cooling

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| Fans | <ul style="list-style-type: none"> 6 Heavy Duty 4cm Fan(s) |
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Power Supply

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| 800W Redundant Power Supplies with PMBus | |
| Dimension (W x H x L) | <ul style="list-style-type: none"> 54.5 x 40 x 220 mm |
| AC Input | <ul style="list-style-type: none"> 100-127Vac / 50-60Hz 200-240Vac / 50-60Hz |
| DC Input | <ul style="list-style-type: none"> 230-240Vdc |

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| Power Configurations | <ul style="list-style-type: none"> ▪ ACPI Power Management ▪ Power-on mode for AC power recovery |
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PC Health Monitoring

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| CPU | <ul style="list-style-type: none"> ▪ 4+1 Phase-switching voltage regulator ▪ Monitors for CPU Cores, Chipset Voltages, Memory |
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| FAN | <ul style="list-style-type: none"> ▪ Fans with tachometer monitoring ▪ Pulse Width Modulated (PWM) fan connectors ▪ Status monitor for speed control |
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| Temperature | <ul style="list-style-type: none"> ▪ Monitoring for CPU and chassis environment ▪ Thermal Control for fan connectors |
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| +12V | <ul style="list-style-type: none"> ▪ Max: 62.5A / Min: 0A (100Vac-127Vac) ▪ Max: 66.6A / Min: 0A (200Vac-240Vac) ▪ Max: 66.6A / Min: 0A (230Vdc-240Vdc) |
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| 5V SB | <ul style="list-style-type: none"> ▪ Max: 4A / Min: 0A |
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| Output Type | <ul style="list-style-type: none"> ▪ Gold Finger Connector |
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| Certification |   Platinum Level [Test Report] |
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Operating Environment

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| RoHS | <ul style="list-style-type: none"> ▪ RoHS Compliant |
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| Environmental Spec. | <ul style="list-style-type: none"> ▪ 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) |
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Parts List

| Parts List - (Items Included) | | | |
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| | Part Number | Qty | Description |
| Motherboard / Chassis | MBD-X12DPD-A6M25 | 1 | Super X12DPD-A6M25 Motherboard |
| | CSV-802ETS-R804AMP | 1 | 1U Chassis |
| Add-on Card / Module | AOC-S3916L-H16IR-32DD+-P | 1 | 16 int 12Gb/s ports, x8 Gen4, ROC - LP, 32 HDD w/ exp,RoHS |
| Backplane | BPN-EDS4-802N-N2S2 | 1 | 1U 6-Slot Backplane Supports 4 x E1.S and 2 x SAS3/SATA3/NVMe4 Storage Devices,HF,RoHS |
| Backplane | BPN-SAS3-802A-3 | 3 | 4-Port Backplane Supports 4 x 3.5" SAS/SATA HDDNote: It (Rev. 1.00) shares the same design (layout and schematics) as BPN-SAS3-802A-2 beside the silkscreen and CPLD F/W,HF,RoHS |
| Cable 1 | CBL-CDAT-0930 | 1 | CBL,7PIN TO 7PIN,P1.5/1.0mm,17.2CM,26/28AWG,RoHS |
| Cable 2 | CBL-OTHR-1109 | 1 | [NR] MINI SLIMLINE, INT, Passive Latch, 165 CM, power x4, 11 |
| Cable 3 | CBL-PWCD-0174-IS | 2 | PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,14AWG,RoHS/REACH |
| Cable 4 | CBL-PWEX-1056 | 1 | BPN PWR,2P/P3.0 to 3P/P3.0, 12V, 60CM,18AWG, 6A/pin,RoHS |
| Cable 5 | CBL-SAST-1237-85 | 1 | [NR] Slimline x8 (STR) to Slimline x4 (STR),FOLD,FFC,85 OHM, |
| Cable 6 | CBL-SAST-1238-85 | 1 | [NR] 2x Slimline x8 (STR) to 4x Slimline x4 (STR),FOLD,FFC,8 |
| Front Panel | FPB-802A-LED12-A | 1 | SC802 front HDD LED board,RoHS |
| Air Shroud | MCP-310-80201-0B | 2 | Mylar air shroud for SC802(X12DPD) |
| Riser Card | RSC-PR-6-X2 | 1 | 1U RHS TwinPro Riser card with one PCI-E 4.0 x16 slot,HF,RoH |
| Riser Card | RSC-X-6G4 | 2 | 1U LHS Storage riser card with one PCI-E 4.0 x16 slot,HF,RoH |
| Software | SFT-OOB-LIC | 1 | License key for enabling OOB BIOS management |
| Heatsink / Retention | SNK-P0077P | 2 | 1U Passive CPU Heat Sink for X12 Generation Intel Whitley and Cedar Island Platforms |
| *Power Supply | PWS-804P-1R | 2 | 1U 800W 100-240VAC/50-60Hz, and DC240V input |
| *Power Distributor | PDB-PTLB16-8814 | 1 | 1U support redundancnt powers up to 1200W power distributor b |
| *Cable 7 | CBL-CDAT-0914 | 1 | CBL,SGPIO,4 PIN,F/P2.5 TO 4 PIN,F/P1.25,96.5CM,RoHS |
| *Cable 8 | CBL-CDAT-0963 | 1 | SERIAL,2X10/P2.54 TO P1.25, 84CM,RoHS |
| *Cable 9 | CBL-CUSB-0834 | 1 | USB 2.0, 2*5 pin to 8 pin, 95CM |
| *FAN 1 | FAN-0141L4 | 6 | 40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan |
| *FAN 2 | FAN-0163L4 | 6 | 40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan |
| *Front Panel | FPB-FP802 | 1 | Front control board for 802 chassis, 2*USB2.0, optional thermal sensor |
| *Drive Tray(s) | MCP-220-00161-0B | 2 | SC802 2.5" NVME HDD Tray (fit up to 7mm only) |
| *Drive Tray(s) | MCP-220-00162-0N | 12 | SC802 3.5" internal HDD Tray |
| *Drive Tray(s) | MCP-220-12109-0N | 4 | SC802 E1-S cage (33.75mm height, 7mm w) |
| *Rear Window | MCP-240-80203-0N | 1 | Rear window for SC802(S-AIOM) |
| *Rail Set | MCP-290-00153-0N | 1 | 1U fixed rail set for SC802 w/ quick release (700mm to 940mm) |

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

| | Part Number | Qty | Description |
|----------------------|--|------------|---|
| Network Cards | 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 |
| | More | - | AOC Compatibility Matrix (Select Storage & X12) |
| TPM Module | <u>AOM-TPM-9671V-S</u> | - | SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor |
| | <u>AOM-TPM-9670V-S</u> | - | SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor |