

Storage SuperServer SSG-620P-ACR16L



Form Factor	2U Rackmount Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.75") Package: 658 x 274 x 998mm (25.9" x 10.8" x 39.3")
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported TDP up to 270W; 3 UPI
System Memory	16 DIMM slots Up to 18TB Intel® DCPMM, DDR4-2666MHz Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz
Drive Bays	16x 3.5" hot-swap SATA3/SAS3 drive bays; 4x 3.5" NVMe hybrid; Optional RAID support via RAID/HBA controller AOC
Expansion Slots	Slot 2: PCI-E 4.0 x16 LP Slot 3: PCI-E 4.0 x16 LP Slot 4: PCI-E 4.0 x16 LP Slot 5: PCI-E 4.0 x16 LP Slot 6: PCI-E 4.0 x8 LP Note: PCIe slot 1 is occupied by the Storage Controller
On-Board Devices	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 RJ-45 10Gbase-T ports USB: 4 USB 3.0 port(s) (4 Rear_USB) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear) DOM: 2 SuperDOM (Disk on Module) port

Key Applications

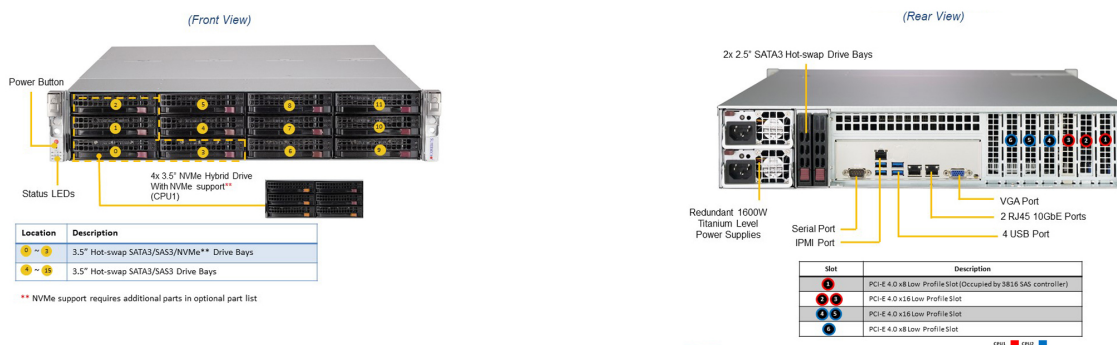
- Enterprise Server
- iSCSI SAN
- HPC, Data Center
- Database Processing & Storage
- Corporate Database

Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- 16 ECC DDR4-3200: LRDIMM/RDIMM + 2 Intel® Optane™ Persistent Memory Dedicated Slots;
- 2x 10GbE;
- 16x 3.5" hot-swap hybrid SATA/SAS drive bays (4 NVMe Hybrid Ports); 2 Rear SATA Slots; onboard 1 M.2 NVMe;
- 3 heavy duty fans with optimal fan speed control; 1 Air Shroud;
- 1600W Redundant Power Supplies Titanium Level (96%);
- Broadcom® 3816 Controller;

[More details here](#)





Cooling System	4x 8cm heavy duty fan(s)
Power Supply	1600W Redundant Power Supplies with PMBus Dimension (W x H x L): 73.5 x 40 x 203 mm Output Type: AC-Input
System BIOS	BIOS Type: AMI 128MB SPI Flash EEPROM
Management	SuperDoctor® 5; Watch Dog; NMI; SUM; IPMI 2.0
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 4+1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Height: 3.5" (89 mm) Width: 17.2" (437 mm) Depth: 27.75" (705 mm) Gross Weight: 62 lbs (28.12 kg) Net Weight: 41.5 lbs (18.82 kg) Packaging: 10.8" (H) x 25.9" (W) x 39.3" (D) Available Color: Black
Operating Environment	ROHS: RoHS Compliant 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)
Motherboard	Super X12DPI-NT6
Chassis	CSE-829HE1C4-R1K62LPB






Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12DPi-NT6	1	Super X12DPi-NT6 Motherboard
	CSE-829HE1C4-R1K62LPB	1	2U Chassis
Add-on Card / Module	AOC-S3816L-L16IT-O	1	16 int 12Gb/s SAS3 ports, x8 Gen4, HBA - LP, 122 HDD w/ exp,RoHS
Backplane	BPN-SAS3-829HA-A4	1	4-port internal SAS3 12Gbps backplane, support up to 4x 3.5-inch SAS3/SATA3 HDD/SSD
Backplane	BPN-SAS3-LA26A-N12	1	2U 12-Slot LFF Backplane Supports 12 x SAS3/SATA3/NVMe4 Storage Devices with 1x(2x4) + 4x(1x4) power connectors, co-lay with BPN-SAS3-LA26A-N12,HF,RoHS
Cable 1	CBL-0277L	2	HDD POWER CABLE (BIG 4 PIN; 32CM), PBF
Cable 2	CBL-CDAT-0728	1	4 Pin to 4 Pin I2C Cable, 65cm, 26AWG, 4 Wires, Pinout 1-1
Cable 3	CBL-PWEX-0645	2	Big 4 Pin Male to Big 4 Pin Female, Power Extension 15cm
Cable 4	CBL-SAST-1250A-100	1	SlimSAS (x8 ST to x4 STR and miniS)80/50CM,100OHM,RoHS
Cable 5	CBL-SAST-1281-100	1	Slimline x8 (STR) to 2x Slimline x4 (STR),80CM,100 OHM,
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Air Shroud	MCP-310-82935-0B	1	Mylar 1U air shroud for SC829H X12
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0077PW	1	1U Passive CPU HS 92mm Width for X12 Whitley Platform
Heatsink / Retention	SNK-P0078AP4	1	2U Active CPU Heat Sink for X12 Generation Building Block Solutions
*Power Supply	PWS-1K62A-1R	2	AC-DC 1600W, Titanium Level, Redundancy, 1U, DC Output: +12V and +12Vs, 203 x 73.5 x 40 mm, AC Input: 90 - 264 VAC/47-63Hz, PMBus 1.2 with DSP controller,HF,RoHS/REACH
*Power Distributor	PDB-PT829H-2824	1	2U standard output with 24Pin PDB support up to
*Cable 6	CBL-CDAT-0607	1	[NR] FRONT CNTL,20 TO 20 PIN, P0.5, FFC,FLAT, 23.5CM, STD
*Cable 7	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
*Cable 8	CBL-PWEX-1078	4	PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,20CM,22AWG,5A/PIN,RoHS
*FAN 1	FAN-0166L4	4	80x80x38 mm, 13.5K RPM, Optional Middle Cooling Fan for 2U Ultra Series Servers (Hot-swappable Version of FAN-0162L4)
*FAN 2	FAN-0206L4	4	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for 2U and above Servers
*Front Panel	FPB-TB826-T	1	Chassis transfer board for SC826
*Drive Tray(s)	MCP-220-00075-0B	12	Black gen 5.5 hot-swap 3.5" HDD tray
*Drive Tray(s)	MCP-220-82902-0N	1	Middle tray plate for SC829H
*Drive Tray(s)	MCP-220-82903-0N	4	Internal mid tray with handle for SC829H
*Rail Set	MCP-290-00053-0N-01	1	36"; Rail set for Auto-latch, quick/quick, 2, 3U 17.2";W
*Drive Tray(s)	MCP-290-82607-0N	1	826B/216B rear dummy cover for 2 X 2.5

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
Bezel	MCP-210-82601-0B 	-	Black Front Bezel for 826 chassis
Converter Tray	MCP-220-00043-0N 	-	Black hot-swap gen 4 3.5 to 2.5 HDD tray
IPASS Cable	CBL-SAST-0388L-02 	-	30AWG Ipass to 4SATA 90/90/70/70CM W/ 90CM SB
Network Cards	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)
NVMe Support	AOC-SGP-I2	-	Standard LP 2-port GbE, Intel 82575
	CBL-SAST-1248-85	2	[NR] Slimline x8 (LE) to Slimline x8 (STR),46CM,85 OHM,RoHS
Power Cord	MCP-220-00116-0B 	4	Black gen-5.5 tool-less 3.5-to-2.5 NVMe converter drive tray,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
Toolless Converter Tray	CBL-PWCD-0300-IS	-	PWCD,US,IEC60320 C14 TO C13,6FT,18AWG,RoHS/REACH
	MCP-220-00118-0B 	-	Black gen-5.5 tool-less 3.5-to-2.5 converter drive tray,RoHS/REACH
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