

Storage SuperServer SSG-631E-E1CR16H



More details here

Key Applications

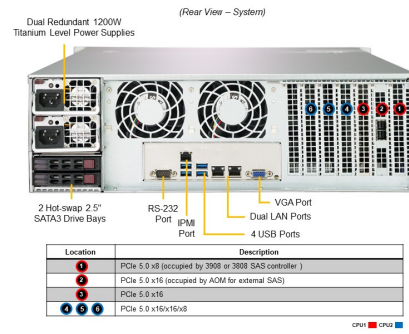
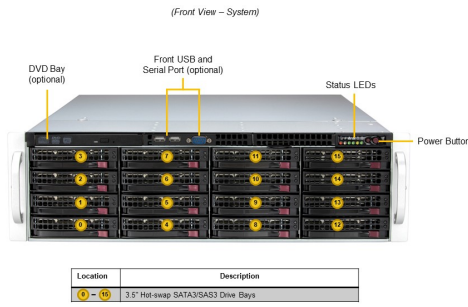
Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database, Appliance Optimized Storage Building Blocks,

Key Features

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s(1DPC) in 16 DIMM slots;
- 2x 10 GbE onboard via Broadcom BCM57416; 1x GbE Dedicated LAN for server remote management: IPMI 2.0 / KVM over LAN / Media over LAN;
- 16x 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Rear 2.5" SATA Slots, 2x NVMe M.2 (form factor: 2280 and 22110);
- 5x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1200W Redundant Power Supplies Titanium Level (96%);
- HW RAID support via Broadcom® 3908;



Form Factor	3U Rackmount Enclosure: (17.2" x 5.2" x 25.5") Package: (27" x 13" x 35")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	16x 3.5" hot-swap SATA3/SAS3 drive bays (2x 2.5" hot-swap SATA3 rear drive bays) 2 M.2 NVMe M-Key, 2280 and 22110
Expansion Slots	2 PCIe 5.0 x8 FH slot(s) 4 PCIe 5.0 x16 FH slot(s) Note: PCIe slot 1 & 2 are occupied by the Storage Controller/JBOD Expansion Module
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2x 10GbE BaseT with Broadcom BCM57416 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 Onboard 10 GbE LAN 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



System Cooling	Fans: 5 Heavy Duty 8cm Fan(s)
Power Supply	1200W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 7+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: 5.2" Width: 17.2" Depth: 25.5" Gross Weight: 79 lbs (48 kg) Packaging: 13" x 27" x 35" Available Color: Silver
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 X13DEI-T
Chassis	CSE-836BTS-R1K23BP2

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis					
Part Number	MBD-X13DEI-T	CSE-836BTS-R1K23BP2			
Qty	1	1			
Description	Super X13DEI-T Motherboard	3U Chassis			
Add-on Card / Module					
Part Number	AOC-S3908L-H8IR-P	AOM-SAS3-8I8E			
Qty	1	1			
Description	8 int 12Gb/s ports, x8 Gen4, ROC- LP, 240 HDD w/exp,RoHS	8-port Mini SAS HD Int-to-Ext Cable Adapter w/FH Bracket			
Backplane					
Part Number	BPN-SAS3-836EL1				
Qty	1				
Description	(EOL)SAS3 12Gb/s Single Expander backplane with 16 SAS3 3.5"				
Cable					
Part Number	CBL-SAST-0532	CBL-SAST-1264-100	CBL-0071L	CBL-PWEX-1069	CBL-PWEX-1078
Qty	2	1	1	1	4
Description	Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s	Slimline x8 (STR) to 2x MiniSAS HD x4,65CM,100 OHM,RoHS	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF	PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,30CM,22AWG,5A/pin,RoHS	PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,20CM,22AWG,5A/PIN,RoHS
Parts					
Part Number	MCP-260-00042-3N	MCP-290-83601-0V			
Qty	1	1 set			
Description	STD I/O shield for X13 server MB with venting holes	Silver chassis handles (left and right) for SC836/835			
Front Panel					
Part Number	MCP-280-00033-0N	FPB-FP836-D			
Qty	1	1			
Description	Universal Thermal sensor kit with 80cm I2C cable	Front control board Dual color LED(FP836-D)forSC823M,825,825			
Air Shroud					
Part Number	MCP-310-83601-0B	MCP-310-83602-0B	MCP-310-39001-0N		
Qty	1	1	1		
Description	Mylar air block for SC836(X11DPH-T),RoHS	Mylar air shroud for SC836(X13DEI-T)	SC835/836/936 Intel DP X9-X10 PC air shroud 1368x13/12x13MB		
Software					
Part Number	SFT-OOB-LIC				
Qty	1				
Description	License key for enabling OOB BIOS management				
Heatsink / Retention					
Part Number	SNK-P0088P				
Qty	2				
Description	2U Passive CPU HS for X13 Intel Eagle Stream Platform				
*Power Supply					
Part Number	PWS-1K23A-1R				
Qty	2				
Description	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 336x76x40 mm,HF,RoHS/REACH				
*Power Distributor					
Part Number	PDB-PT826-8824				
Qty	1				
Description	PDB with longer 24pin for SC826B				
*Fan					
Part Number	FAN-0206L4	FAN-0212L4			
Qty	3	2			
Description	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for 2U and above Servers	80x80x32 mm, 9.7K RPM Rear Exhaust Fan for SC836B and SC846B			
*Drive Tray(s)					
Part Number	MCP-220-00023-01	MCP-220-00075-0B			
Qty	1	16			
Description	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836	Black gen 5.5 hot-swap 3.5" HDD tray			
*Rear Window					
Part Number	MCP-240-83605-0N				
Qty	1				
Description	836B chassis rear window (to support the optional MCP-220-83605-0N)				
*Peripheral Drive					
Part Number	MCP-290-00007-01				
Qty	1				
Description	Black DVD dummy cover for SC825, 836				
*Rail Set					
Part Number	MCP-290-00053-0N	MCP-410-00007-0N			
Qty	1	1			
Description	Rail set, quick/quick, default for 2,3U 17.2"W Rail screw bag				

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

Converter Tray	
Part Number	MCP-220-00043-0N - Store (https://store.supermicro.com/mcp-220-00043-0n.html)
Qty	-
Description	2.5" HDD TRAY IN 4TH GENERATION 3.5" HOT SWAP TRAY
Front USB3.0 & COM Ports Tray	
Part Number	MCP-220-00129-0B
Qty	-
Description	Black 2x USB3.0/COM port tray in slim FDD bay, with both side of rails/brackets
Network Cards	

Part Number	AOC-STGS-i2T-O	AOC-STG-b2T-O	AOC-S25G-M2S-O Store (https://store.supermicro.com/aoc-s25g-m2s-o-1013.html)	AOC-S25G-i2S-O	AOC-S25G-b2S-O
Qty	-	-	-	-	-
Description	Std LP 2-port 10G RJ45, Intel X550	Standard LP 2-port 10Gbase-T, Broadcom 57416,HF,RoHS	Std LP 2-port 25G SFP28, Mellanox ConnectX-4 LX EN	Std. Low Profile 25G dual port SFP28, based on Intel XXV710	Std LP 2-port 25G SFP28, Broadcom BCM57414
Power Cord					
Part Number	CBL-PWCD-0579-1	CBL-PWCD-0300-IS	CBL-PWCD-0579		
Qty	-	-	-		
Description	Power Cord Type IEC (C14 to C13) 6 ft (14AWG), 15A, 250V	PWCD,US,IEC60320 C14 TO C13,6FT,18AWG,RoHS/REACH	Power Cord Type IEC (C14 to C13) 6 ft (14AWG), 15A, 250V		
Supercap - Battery					
Part Number	BTR-CVPM05				
Qty	-				
Description	Cachevault supercap for storage controller				
Supercap - Battery Holder					
Part Number	MCP-240-00203-0N				
Qty	-				
Description	PCIe plastic battery holder with FH/LP-bracke				
TPM					
Part Number	AOM-TPM-9670V-O	AOM-TPM-9671V-O			
Qty	1	1			
Description	TPM 2.0, vertical form factor, provisioned for server	TPM 1.2, vertical form factor, provisioned for server			
VROC					
Part Number	AOC-VROCPREMOD (/products/accessories/addon/AOC-VROCxxxMOD.php) Store (https://store.supermicro.com/supermicro/aoc-vroc-standard-module-1.html)	AOC-VROCSTNMOD (/products/accessories/addon/AOC-VROCxxxMOD.php) Store (https://store.supermicro.com/supermicro/aoc-vroc-standard-module-1.html)			
Qty	-	-			
Description	Intel VROC Premium, RAID0,1,5,10,HF,RoHS	Intel VROC HW key (RSTe) standard upgrade module,HF,RoHS			

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