

Storage SuperServer SSG-641E-E1CR36H



More details here

Key Applications

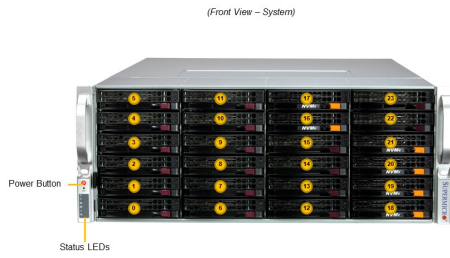
Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database, Appliance Optimized Storage Building Blocks,

Key Features

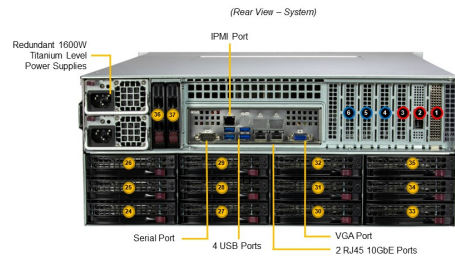
- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s(1DPC) in 16 DIMM slots;
- 1x GbE Dedicated LAN for server remote management: IPMI 2.0 / KVM over LAN / Media over LAN; 2x 10 GbE onboard via Broadcom BCM57416;
- 36x 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Rear 2.5" SATA Slots, 2x NVMe M.2 (form factor: 2280 and 22110);
- 7x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HW RAID support via Broadcom® 3908;



Form Factor	4U Rackmount Enclosure: (17.2" x 7" x 27.5") Package: (27" x 15" x 39")
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	36x 3.5" hot-swap SATA3/SAS3 drive bays (6x 2.5" NVMe hybrid)(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 LP slot(s) 4 PCIe 5.0 x16 LP 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



Location	Description
1 - 12	24 Hot-swap 3.5" SATA/SAS Drive Bays
13 - 18	6 NVMe Drive Bays (optional)



Location	Description	Location	Description
1	PCIe 5.0 x8 (occupied by 3902 or 3908 SAS controller)	24 - 25	12 Hot-swap 3.5" SATA/SAS Drive Bays
2	PCIe 5.0 x16 (occupied by AOM for external SAS)	26 - 27	2 Hot-swap 2.5" SATA Drive Bays
3	PCIe 5.0 x16		
4	PCIe 5.0 x16		
5	PCIe 5.0 x8		

System Cooling	Fans: 7 Heavy Duty 8cm Fan(s)
Power Supply	1600W 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: 7" Width: 17.2" Depth: 27.5" Gross Weight: 102.5 lbs (46.4 kg) Net Weight: 65.5 lbs (29.7 kg) Packaging: 15" x 27" x 39" 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-847BTS-R1K68LPBP5

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis					
Part Number	MBD-X13DEI-T	CSE-847BTS-R1K68LPBP5			
Qty	1	1			
Description	Super X13DEI-T Motherboard	4U Chassis			
Add-on Card / Module					
Part Number	AOC-S3908L-H8IR-P	AOM-SAS3-8I8E-LP			
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/LP Bracket			
Backplane					
Part Number	BPN-SAS3-826EL1-N4-1	BPN-SAS3-846EL1-N8-1			
Qty	1	1			
Description	2U 12-slot SAS3/SATA3 LFF Expander BPN, 4 of the 12-slots are hybrid ports also support NVMe Gen 4,,RoHS	4U 24-Port LFF Expander Backplane support up to 16 SAS3/SATA3 and 8 SAS3/SATA3/NVMe Gen 4 Storage Media			
Cable					
Part Number	CBL-0296L	CBL-CDAT-0728	CBL-SAST-1281-100	CBL-SAST-1285-100	CBL-SAST-1286-100
	CBL-0071L	CBL-0160L	CBL-PWEX-1079		
Qty	2	1	1	2	2
	1	2	7		
Description	9" 4 PIN FAN PWS EXTENSION CORD, PBF ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF	4 Pin to 4 Pin I2C Cable, 65cm, 26AWG, 4 Wires, Pinout 1-1 US POWER CORD 16AWG, PB FREE	Slimline x8 (STR) to 2x Slimline x4 (STR),80CM,100 OHM, PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,37CM,22AWG,5A/pin,RoHS	Slimline x4 (STR) to MiniSAS HD (STR) x4,85CM,100 OHM,R	Slimline x4 (STR) to Slimline x4 (STR),INT,85CM,100 OHM,
Parts					
Part Number	MCP-260-00042-3N				
Qty	1				
Description	STD I/O shield for X13 server MB with venting holes				
Software					
Part Number	SFT-OOB-LIC				
Qty	1				
Description	License key for enabling OOB BIOS management				
Heatsink / Retention					
Part Number	SNK-P0088AP4	SNK-P0088P			
Qty	1	1			
Description	2U Active CPU Heat Sink for X13 Gen. Building Block Solution	2U Passive CPU HS for X13 Intel Eagle Stream Platform			
*Power Supply					
Part Number	PWS-1K68A-1R				
Qty	2				
Description	1U 1600W Redundant Titanium Power Supply 76mm width 27Pair,PBF				
*Power Distributor					
Part Number	PDB-PT847-H8824				
Qty	1				
Description	4U support redundancy input powers and output over 2.6KW PDB				
*Fan					
Part Number	FAN-0166L4				
Qty	7				
Description	80x80x38 mm, 13.5K RPM, Optional Middle Cooling Fan for 2U Ultra Series Servers (Hot-swappable Version of FAN-0162L4)				
*Front Panel					
Part Number	FPB-TB826-T				
Qty	1				
Description	Chassis transfer board for SC826				
*Drive Tray(s)					
Part Number	MCP-220-00075-0B	MCP-220-84708-ASM			
Qty	36	1			
Description	Black gen 5.5 hot-swap 3.5" HDD tray	SC847B LP MB Tray assembly,HF,RoHS/REACH			
*Rail Set					
Part Number	MCP-290-00057-0N	MCP-410-00007-0N			
Qty	1 set	1			
Description	Rail set, quick/quick, default for 4U 17.2" W	Rail screw bag			
*Air Shroud					
Part Number	MCP-310-49004-0N				
Qty	1				
Description	SC847/417 DP X9 universal PC air shroud 1368x13/12x13MB				

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

Cable - for NVMe in main drive bay

Part Number	CBL-MCIO-1260M5 eStore (https://store.supermicro.com/mcio-x8-str-to-x8-str-60cm-30awg-85ohm-rohs.html)
Qty	-
Description	MCIO (x8 STR to x8 STR),60CM,30AWG,85OHM,RoHS

Converter Tray	
Part Number	MCP-220-00043-0N eStore (https://store.supermicro.com/mcp-220-00043-0n.html)
Qty	-
Description	2.5" HDD TRAY IN 4TH GENERATION 3.5" HOT SWAP TRAY

Converter Tray - orange NVMe tab

Part Number	MCP-220-00138-0B eStore (https://store.supermicro.com/mcp-220-00138-0b.html)				
Qty	-				
Description	Black gen-5.5 tool-less NVMe 3.5-to-2.5 drive tray, Orange tab				
Network Cards					
Part Number	AOC-STG-b2T-O	AOC-S25G-M2S-O eStore (https://store.supermicro.com/aoc-s25g-m2s-o-1013.html)	AOC-S25G-i2S-O	AOC-S25G-b2S-O	AOC-STGS-i2T-O
Qty	-	-	-	-	-
Description	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	Std LP 2-port 10G RJ45, Intel X550
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-9671V-O	AOM-TPM-9670V-O			
Qty	1	1			
Description	TPM 1.2, vertical form factor, provisioned for server	TPM 2.0, vertical form factor, provisioned for server			
VROC					
Part Number	AOC-VROCSTNMOD (https://store.supermicro.com/supermicro/vroc-standard-module-1.html)	AOC-VROCPREMOD (https://store.supermicro.com/supermicro/vroc-premium-module.html)			
Qty	-	-			
Description	Intel VROC HW key (RSTe) standard upgrade module, HF, RoHS	Intel VROC Premium, RAID0,1,5,10, HF, RoHS			

[Global SKU \(/en/products/SMC_global_skus\)](https://store.supermicro.com/global-skus)