

UP SuperServer SYS-111C-NR



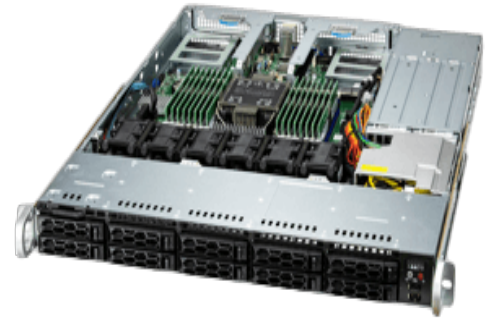
More details here

Key Applications

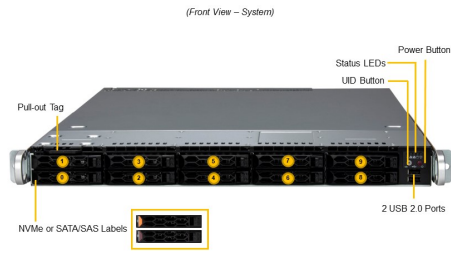
Virtualization, HPC, CDN, Edge Nodes, Cloud Computing, Data Center
Optimized, Storage Headnode,

Key Features

- Single Socket E (LGA-4677) 4th/5th Gen Intel® Xeon® Scalable processors.
Up to 350W TDP;
- Intel® C741 Chipset;
- 16 DIMMs; Supports 3DS DDR5 RDIMM. Up to 5600 MHz;
- 2 PCIe 5.0 x16 FHHL; 2 PCIe 5.0 x16 AIOM NIC(OCP 3.0); 2 PCIe 3.0 x2 NVMe M.2;
- Dual AIOM (OCP 3.0) for networking (NCSI available), 1 dedicated IPMI LAN;
- 10x front hot-swap 2.5" SATA3 drive bays (Optional all 10 hybrid Gen5 NVMe), SAS3 with additional SAS controller card;
- Redundant Now Titanium 860W Power Supplies;

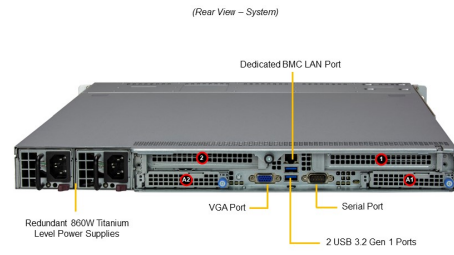


Form Factor	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 605 x 197 x 822mm (23.8" x 7.8" x 32.4")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; Up to 320MB Cache
GPU	Max GPU Count: Up to 2 single-width GPU(s) Supported GPU: NVIDIA PCIe: A2,L4 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 4800MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 4TB 4400MT/s ECC DDR5 RDIMM
Drive Bays	10x 2.5" NVMe/SATA/SAS drive bays (10x 2.5" NVMe hybrid) 2x PCIe 3.0 x2 M-key, 2280, 22110
Expansion Slots	2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 OCP 3.0 AIOM NIC slot(s) Note: AIOM slots share PCIe lanes with NVMe drives. Acronyms: (FH = Full Height, LP = Low Profile, FL = Full Length, HL = Half Length)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support NVMe: NVMe Chipset: Intel® C741 Network Connectivity: Via AIOM 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	SATA: 12 SATA (6Gbps) port(s) LAN: 1 RJ45 Dedicated IPMI LAN port USB: 2 USB 2.0 port(s) (2 front) 2 USB 3.2 Gen 1 port(s) (2 rear) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear)



Drive Bay	Description
1 - 8	2.5" Hot-swap PCIe 5.0 NVMe/SAS3/SATA3 Drive Bays

* NVMe or SAS3 support requires additional parts from the optional parts list



Slot	Slot Description
1 - 2	PCIe 5.0 x16 F/RHL
3 - 4	PCIe 5.0 x16 A/OM (OCP 3.0)

* Default Configuration. Exact slot quantity depends on the system load.

System Cooling	Fans: 6 middle cooling PWM 40x40x56mm Fan(s)
Power Supply	2x 860W 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 8 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: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 23.5" (597 mm) Gross Weight: 40 lbs (18.1 kg) Net Weight: 25 lbs (11.3 kg) Packaging: 7.8" (H) x 23.8" (W) x 32.4" (D) Available Color: Black front & silver body
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	Super X13SEDW-F
Chassis	CSE-LB16TS-R0AWN3

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis					
Part Number	MBD-X13SEDW-F	CSE-LB16TS-R0AWN3			
Qty	1	1			
Description	Super X13SEDW-F Motherboard	1U Chassis			
Backplane					
Part Number	BPN-NVME5-LB16A-S10				
Qty	1				
Description	1U 10-port backplane, 10x SAS3/SATA3/NVME5 for X13 CloudDC				
Cable					
Part Number	CBL-MCJO-1218M5-1 CBL-PWCD-0160-IS	CBL-MCJO-1225M5Y	CBL-SAST-1274LP-100	CBL-SAST-1285LP-100	CBL-CDAT-0680-55
Qty	1 2	2	1	1	1
Description	MCIO x8 (STR to STR),18CM,85OHM,RoHS PWCD,US,NEMAS-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH	MCIO (x8 to 2 x4) STR,25CM,85OHM,RoHS	SlimlineLP x8 (LE) to 2x Slimline x4 (STR),68/76CM,100 O	SlimlineLP x4 (STR) to Slimline x4 (STR),57CM,100 OHM,Ro	NCSI,2x10F to 2x10FJDC,PH2.54,55cm,shield,28AWG,RoHS
Fan					
Part Number	FAN-0163L4				
Qty	6				
Description	40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan				
Parts					
Part Number	MCP-150-00015-0B	MCP-160-00028-0B	MCP-320-00067-0B		
Qty	6	1	1		
Description	Rubber pad, 3.0mm H, 10x10mm	Mylar Cable Channel for Cloud-DC, X12 DDW	Chassis base Air Foam block set (L+R) for Cloud-DC		
Manual					
Part Number	MNL-2493-QRG				
Qty	1				
Description	111C-NR Quick Reference Guide				
Power Supply					
Part Number	PWS-861A-1R	MCP-250-00009-0N			
Qty	2	1			
Description	1U redundant 800/860W Titanium AC power supply 54.5x40x322mm	SC113 Redundant Power Distributor Cover			
Riser Card					
Part Number	RSC-D-6G5	RSC-DR-6G5			
Qty	1	1			
Description	1U LHS DCO Riser card with one PCIe 5.0 X16 slot,HF,RoH	1U RHS DCO Riser card with one PCIe 5.0 X16 slot,HF,Ro			
Software					
Part Number	SFT-OOB-LIC				
Qty	1				
Description	License key for enabling OOB BIOS management				
Heatsink / Retention					
Part Number	SNK-P0087P				
Qty	1				
Description	1U Passive CPU HS for X13 Intel Eagle Stream Platform				
*Power Distributor					
Part Number	PDB-PT116-SL8824				
Qty	1				
Description	Based on PDB-PT116-L8824 to optimize 24Pin etc cable lengths				
*Front Panel					
Part Number	FPB-FP116				
Qty	1				
Description	Front control board for SC116 (USB 2.0 x 2)				
*Drive Tray(s)					
Part Number	MCP-220-00188-0B				
Qty	10				
Description	Black gen-5.5 tool-less cost-effective 2.5				
*Rear Window					
Part Number	MCP-240-00173-0N				
Qty	1				
Description	1U X12 AWJO Rear window for LA15,LB16,LB13 Redundant PWS				
*Rail Set					
Part Number	MCP-290-00016-0N	MCP-290-00063-0N	MCP-290-00102-0N	MCP-290-00108-0N	MCP-290-00112-0N
Qty	1	1set	1 set	1 set	1 set
Description	1U open rack bracket set for CSE-PT51L,MCP-290-00054-0N	Rail set, quick/quick, default for 1U 17.2"W for SC113/SC116,RoHS/REACH	Outer rail, quick-release type, 25.6	Inner rail, front, short, quick-release type	Inner rail, extension, long (quick) for 1U 17.2W chassis
*Fan Holder					
Part Number	MCP-320-00056-0B	MCP-320-00066-0B	MCP-340-00035-0B		
Qty	24	1	2		
Description	40X56 rubber fan pin for SC819U, SC119U,RoHS/REACH	Fan holder with cable channel, 40X56mm fan, for LA15,LB16,LB13	Dummy fan 40x56mm for 40x56 counter-rotating fan (cost-effective)		

- 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

CacheVault					
Part Number	BTR-CVPM05 + MCP-240-21747-0N (For S3908/S3916)	BTR-CVPM05 + MCP-240-00203-0N (For S3908/S3916)			
Qty	1	1			
Description	SuperCap mounting bracket for AJOM location	SuperCap mounting bracket for PCIe location			
Inlet Thermal Sensor					
Part Number	MCP-280-00033-0N				
Qty	1				
Description	Inlet Thermal sensor kit with 80cm I2C cable				
Intel VROC RAID Key for NVMe					
Part Number	AOC-VROCPREMOD /products/accessories/addon/AOC-VROCPREMOD.php *Store	AOC-VROCSTNMOD /products/accessories/addon/AOC-VROCSTNMOD.php *Store			
Qty	1	1			
Description	Premium Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10/5	Standard Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10			
NVMe Cable (Drive Bay 0-1)					
Part Number	CBL-MCJO-1240AM5-X *Store https://store.supermicro.com/mcio-x8-to-x8-str-40cm-lnrv-85ohm-rohs.html				
Qty	1				
Description	MCIO (x8 to x8) STR,40CM,85OHM				
NVMe Cable (Drive Bay 2-9)					
Part Number	CBL-MCJO-1225M5Y *Store https://store.supermicro.com/mcio-x8-to-2-x4-str-25cm-85ohm-rohs.html				
Qty	2				
Description	MCIO (x8 to 2 x4) STR,25CM,85OHM				

