



Specifications

Product SKUs		Chassis	
SSG-110P-NTR10	<ul style="list-style-type: none"> SuperServer SSG-110P-NTR10 (Black) 	Form Factor	<ul style="list-style-type: none"> 1U Rackmount
		Model	<ul style="list-style-type: none"> CSE-116TS-R860CBP-N10
Motherboard		Dimensions and Weight	
Super X12SPO-NTF		Height	<ul style="list-style-type: none"> 1.7" (43mm)
		Width	<ul style="list-style-type: none"> 17.2" (437mm)
		Depth	<ul style="list-style-type: none"> 23.5" (597mm)
		Package	<ul style="list-style-type: none"> 8" (H) x 24" (W) x 32" (D)
		Weight	<ul style="list-style-type: none"> Net Weight: 15.5 lbs (7.03 kg) Gross Weight: 27 lbs (12.25 kg)
		Available Color	<ul style="list-style-type: none"> Black
Processor		Front Panel	
CPU	<ul style="list-style-type: none"> Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Support CPU TDP 270W 	Buttons	<ul style="list-style-type: none"> Power On/Off UID button
		LEDs	<ul style="list-style-type: none"> Device Activity LAN 1 Activity LAN 2 Activity Power status System information
System Memory		Expansion Slots	
Memory	<ul style="list-style-type: none"> Memory Capacity: 8 DIMM slots Up to 2TB: 8x 256 GB DRAM Up to 3TB: 4x 256 GB DRAM and 4x 512 GB PMem Memory Type: 3200/2933/2666MHz ECC DDR4 RDIMM;LRDIMM Intel® Optane™ persistent memory 200 series 	PCI-Express (PCI-E)	<ul style="list-style-type: none"> Slot 1: PCI-E 4.0 x16 FHHL
Memory Voltage	<ul style="list-style-type: none"> 1.25 V 		
Error Detection	<ul style="list-style-type: none"> Yes 		
On-Board Devices		Drive Bays / Storage	
NVMe	<ul style="list-style-type: none"> NVMe Gen 4 via MB onboard controller; RAID 0, 1, 5, 10 support (with additional VROC module) 	Hot-swap	<ul style="list-style-type: none"> 10x 2.5" hot-swap NVMe drive bays (10x 2.5" NVMe hybrid)
Chipset	<ul style="list-style-type: none"> Intel® C621A 	M.2	<ul style="list-style-type: none"> 2x PCI-E 3.0 x4 and SATA Form Factor: 2280, 22110 Key: M-key
Network Connectivity	<ul style="list-style-type: none"> 2x 10GbE BaseT with Intel® X550 		
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 	System Cooling	
Input / Output		Fans	<ul style="list-style-type: none"> 6x (4cm x4cm x5.6cm) heavy duty fans with optimal fan speed control
LAN	<ul style="list-style-type: none"> 1 RJ45 Dedicated IPMI LAN port 2 RJ45 10GBase-T LAN ports 	Air Shroud	<ul style="list-style-type: none"> 1 Air Shroud(s)
USB	<ul style="list-style-type: none"> 5 USB 3.2 Gen 1 port(s) (2 front; 2 rear; 1 Type A) 4 USB 2.0 port(s) (2 headers; 2 rear) 	Power Supply	
Video	<ul style="list-style-type: none"> 1 VGA port(s) 	AC 860W, Platinum Level, Redundant Power Supply, 54.5mm width	
Serial Port	<ul style="list-style-type: none"> 2 COM Port(s) (1 header; 1 rear) 	Dimension (W x H x L)	<ul style="list-style-type: none"> 54.5 x 40.25 x 320 mm
DOM	<ul style="list-style-type: none"> 2 SuperDOM (Disk on Module) port with built-in power 	Output Type	<ul style="list-style-type: none"> Gold Finger
		Certification	<ul style="list-style-type: none">   Platinum Level
		<ul style="list-style-type: none"> [Test Report] 	

System BIOS

- BIOS Type
 - AMI 32MB SPI Flash EEPROM

Management

- Software
 - IPMI2.0
 - Redfish API
 - SSM
 - Intel® Node Manager
 - SPM
 - KVM with dedicated LAN
 - SUM
 - NMI

- Power Configurations
 - ACPI/APM Power Management

PC Health Monitoring

- CPU
 - 7+1 Phase-switching voltage regulator module (VRM)
 - Monitors for CPU Cores, Chipset Voltages, Memory
- FAN
 - Fans with tachometer monitoring
 - Pulse Width Modulated (PWM) fan connectors
 - Status monitor for speed control
- Temperature
 - Monitoring for CPU and chassis environment
 - Thermal Control for fan connectors

Operating Environment

- Environmental Spec.
 - Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
 - Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
 - Operating Relative Humidity: 8% to 90% (non-condensing)
 - Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12SPO-NTF	1	Super X12SPO-NTF Motherboard
	CSE-116TS-R860CBP-N10	1	1U Chassis
Backplane	BPN-SAS3-LB16A-N10	1	1U 10-Slot SFF Hybrid Backplane Supports 10xSAS3/SATA3/NVMe4 Storage Devices with 1x(2x4) + 2x(1x4) + 1x(2x2) Power Connectors
Cable 1	CBL-0062L	1	12V 8 TO 8 PIN POWER CONNECTOR EXTENSION, LF
Cable 2	CBL-SAST-1231-85	1	Slimline x8 (STR) to Slimline x8 (STR),INT,30CM, 85 OHM
Cable 3	CBL-SAST-1267-85	4	Slimline x8 (STR) to Slimline x8 (STR),INT,67CM,85 OHM,
FAN 1	FAN-0141L4	2	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
Manual	MNL-2366-QRG	1	110P-NTR10 Quick Reference Guide
Riser Card	RSC-S-6G4	1	1U LHS Standard riser card with one PCI-E 4.0 x16 slot,HF,Ro
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0077P	1	1U Passive CPU Heat Sink for X12 Generation Intel Whitley and Cedar Island Platforms
*Power Supply	PWS-860P-1R2	2	1U 860W, Redundant power supply, 54.5mm width, Platinum with
*Power Distributor	PDB-PT112-2424	1	SC112 24PIN REDUNDANT PWS DISTRIBUTOR
*Cable 4	CBL-0335L	1	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,70CM,PBF
*Cable 5	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
*FAN 2	FAN-0141L4	4	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
*Front Panel	FPB-FP116-DU3	1	Front control board with two USB 3.0 for SC116/SC119X
*Drive Tray(s)	MCP-220-00167-0B	10	Gen 3 2.5-inch Tool-less NVMe drive tray (clip design),RoHS
*Rear Window	MCP-240-00086-0N	1	STD rear window for SC113 redundant PWS
*Power Supply	MCP-250-00009-0N	1	SC113 Redundant Power Distributor Cover
*Parts	MCP-260-00078-0N	1	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF
*Rail Set	MCP-290-00063-0N	1 set	Rail set, quick/quick, default for 1U 17.2"W for SC113/SC116,RoHS/REACH
*Air Shroud	MCP-310-19002-0N	1	SC815/113/116 Intel DP X9, X8 PC air shroud, 12x13MB
*Fan Holder	MCP-320-00027-0B	24	Plastic pin for 40x28, 40x56 fan
*Fan Holder	MCP-320-00028-0B	1	Fan holder for 6pcs 40x56 fan, assemble-able for SC819/SC119/SC818/SC116
*Fan Holder	MCP-340-00035-0B	2	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			
	Part Number	Qty	Description
Inlet Thermal Sensor	MCP-280-00033-0N	1	Universal Thermal sensor kit with 80cm I2C cable

Intel VROC RAID Key for NVMe	<u>AOC-VROCPREMOD</u>	1	Premium Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10/5
	<u>AOC-VROCSTNMOD</u>	1	Standard Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10
	<u>AOC-VROCINTMOD</u>	1	Intel SSD Only Upgrade module; RAID 0/1/10/5
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)
TPM	AOM-TPM-9670H-O	1	TPM 2.0, horizontal form factor, provisioned for server
	AOM-TPM-9671H-O	1	TPM 1.2, horizontal form factor, provisioned for server