

MicroCloud SuperServer SYS-531MC-H8TNR

3U 8-Node MicroCloud with single-width GPU support



Key Applications

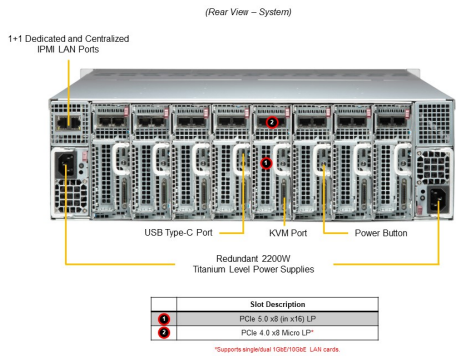
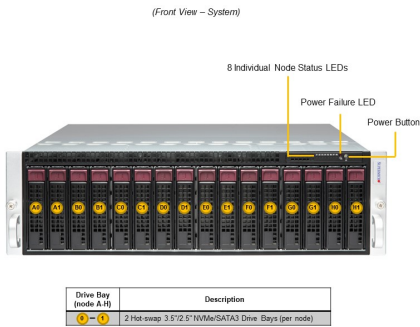
Cloud Computing, Web Hosting, VM, Online Game Server Hosting, IT Infrastructure, Web Cache, Social Networking,

Key Features

- Intel® Xeon® 6300-Series/E-2400/Pentium® G7400 and G7400T Processor Single Socket LGA-1700 (Socket V0) supported, CPU TDP supports Up to 95W TDP;
- Intel® C266;
- 8 set of Up to 128GB ECC UDIMM; DDR5 4400MHz, in 4 DIMM sockets;
- 8 set of PCIe 5.0 x8 (in x16 slot) low profile slot and 8 set of PCIe 4.0 x8 Micro-LP slots;
- 8 set of 2x Front Hot-swappable 3.5" SATA3 HDD or Hybrid 2x 2.5" SAS/SATA3/NVMe U.2 drives w/ option kits;
- 2200W Redundant Titanium Level high-efficiency power supplies;



Form Factor	3U Rackmount Enclosure: 438 x 132 x 589mm (17.26" x 5.21" x 23.2") Package: 667 x 295.91 x 863.6mm (26.26" x 11.65" x 34")
Processor	Single V0 (LGA-1700) Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors
GPU	Up to 1 single-width GPU
System Memory	Slot Count: 4 DIMM slots Max Memory (2DPC): Up to 128GB 4400MT/s ECC DDR5 UDIMM
Drive Bays Configuration	Default: Total 2 bays • 2 front hot-swap 3.5" NVMe/SAS/SATA drive bays M.2: 2 M.2 NVMe/SATA slots (M-key 2280/22110)
Expansion Slots	Default • 1 PCIe 5.0 x8 (in x16) LP slot • 1 PCIe 4.0 x8 (in x8) MicroLP slot
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1 support Chipset: Intel® C266 Network Connectivity: No NIC option supported
Input / Output	USB: 1 Type-C port(front) 2 USB 2.0 Type-A ports Video: 1 port TPM: 1 TPM Onboard/port 80



System Cooling	Fans: 4 Heavy Duty 8cm Fan(s) Air Shroud: 8 Air Shrouds
Power Supply	2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 256MB SPI Flash EEPROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	Temperature: Monitoring for CPU and chassis environment CPU: Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 3-Phase-switching voltage regulator with auto-sense from 0.5V-2.3V FAN: Fan speed control, Dual Cooling Zone
Dimensions and Weight	Weight: Gross Weight: 88 lbs (39.92 kg) Net Weight: 62.2 lbs (28.21 kg) Available Color: N/A
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 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: 8% to 95% (non-condensing)
Motherboard	Super X13SCD-F
Chassis	CSE-938NH-R2K20BP2

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis					
Part Number	MBD-X13SCD-F	CSE-938NH-R2K20BP2			
Qty	8	1			
Description	SuperX13SCD-F Motherboard	3U Chassis			
Add-on Card / Module					
Part Number	AOM-BPN-938NH-P	AOM-LAN-MC8-P	AOM-PDB-PT938-LSG-P	AOM-PDB-PT938-RSG-P	
Qty	1	1	1	1	
Description	AOM-BPN-938NH, Backplane module for 8-node Microcloud system	AOM-LAN-MC8, LAN front panel module for 8-node Microcloud sy	AOM-PDB-PT938-LSG, PDB module for 8-node Microcloud system,H	AOM-PDB-PT938-RSG, PDB module for 8-node Microcloud system,H	
Cable					
Part Number	CBL-0218L CBL-CDAT-0662	CBL-PWCD-0578-1 OR	CBL-PWCD-0578-IS	CBL-0355L	CBL-0458L
Qty	1 1	2	-	2	1
Description	11.5CM KVM/SUVI 36PIN TO 9PIN/15PIN/2USB 8 Pin to 8 Pin Round SGPIO Cable, 61.5cm, 28AWG, Pinout 1-1	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG,RoHS	PWCD,US,IEC60320 C14 TO C13,910mm,14AWG,15A,250V,RoHS	RJ45 C5E 2ft Green With Black ,	20 cm 30 pin to 30 pin Front control cable with tube. 28AWG
Riser Card					
Part Number	RSC-S-6G5				
Qty	8				
Description	1U LHS Standard Riser card with one PCIe 5.0 X16 slot.,H				
Software					
Part Number	SFT-OOB-LIC				
Qty	8				
Description	License key for enabling OOB BIOS management				
Heatsink / Retention					
Part Number	SNK-P1041V				
Qty	8				
Description	1U Prop. Passive CPU HS for 6U 10-blade SuperBlade Series				
Fan					
Part Number	FAN-0213L4 OR	FAN-0194L4			
Qty	4	-			
Description	80x80x38 mm, 14.4K RPM Cooling Fan for 3U8N Microcloud Serie	80x80x38 mm, 13.5K RPM Cooling Fan for 3U8N Microcloud Serie			
*Power Supply					
Part Number	PWS-2K20A-1R				
Qty	2				
Description	1U 2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm				
*Drive Tray(s)					
Part Number	MCP-220-00094-0B				
Qty	16				
Description	Black gen 6.5 hot-swap 3.5 inch HDD Tray				
*Control Board					
Part Number	MCP-280-93801-0B				

Qty	1
Description	Control panel module
*Rail Set	
Part Number	MCP-290-00057-0N
Qty	1
Description	Rail set, quick/quick, default for 4U 17.2" W
*Air Shroud	
Part Number	MCP-310-93805-0B
Qty	16
Description	Mylar air shroud for 2- DIMMs (quick install on DIMM latch)

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		
Part Number	CBL-SAST-1230T4S1-100	
Qty	1	
Description	For AOC-S3908L-H8iR-16DD	
Drive Tray(s)		
Part Number	MCP-220-93801-0B	MCP-220-00158-0B
Qty	1~16	1~16
Description	Black gen 6 hot-swap 3.5-to-2.5 HDD tray	Black gen 6.5 hot-swap 3.5-to-2.5 Tool-less drive tray

Global Services & Support		
Part Number	<u>OSNBD3/2/1</u>	<u>OS4HR3/2/1</u>
Qty	-	-
Description	3/2/1-year onsite NBD service	3/2/1-year onsite 24x7x4 service

GPU					
Part Number	GPU-IATS-M75	GPU-NVA2-NC	GPU-NVL4	GPU-NVQT1000	GPU-NVTT4
Qty	1	1	1	1	1
Description	Intel GPU Arctic Sound ATS-M75 PCIe Gen4 x16, RoHS	NVIDIA Ampere A2 16GB GDDR6 PCIe 4.0 x8 -- w/o CEC	NVIDIA Ada L4 24GB GDDR6 PCIe Gen 4th-- 70w	NVIDIA PNY Quadro T1000 4GB GDDR6 PCIe 3.0-ActiveCooling	NVIDIA Tesla T4 16GB GDDR6 PCIe 3.0, Passive Cooling

GPU Air Shroud	
Part Number	MCP-310-93807-0B
Qty	1
Description	Mylar air shroud for GPU on MicroCloud 938NH, RoHS

Network Card(s) - Micro LP				
Part Number	AOC-CTG-i2S	AOC-CTGS-i2T-O	AOC-CTG-b2T-O	AOC-CGP-I2
Qty	1	1	1	1
Description	(EOL_7/31/25) 2-ports 10GbE SFP+ and 2-ports USB 2.0 Intel 82599ES, Gen2 x8, MicroLP	2-ports 10GbE RJ45 Intel X550, Gen3 x4, MicroLP	2-ports MicroLP 10G RJ45, based on Broadcom BCM57416	2-ports GbE RJ45 Intel i350, Gen2 x4, MicroLP

Network Card(s) - PCIe	
Part Number	AOC-S25GC-i2S-O
Qty	1
Description	2-ports 25Gb SFP28 Intel E810-XXVAM2 Gen 4.0
	AOC-S100GC-i2C-O
	1
	2-ports 100GbE with QSFP28 based on Intel E810-CAM2, RoHS

Software

Part Number	<u>SFT-DCMS-Single</u>	
Qty	-	
Description	DataCenter Management Package (per node license)	
Storage Controller Card(s)		
Part Number	AOC-S3908L-H8IR-16DD-O	AOC-SLG4-2H8M2-O
Qty	1	1
Description	8 int 12Gb/s ports, x8 Gen4, ROC - LP, 16 HDD w/ exp,RoHS	2x Hybrid Gen 4 NVMe/SATA M.2 RAID 0/1 Carrier, Standard LP, RoHS

Bestimmte Produkte sind möglicherweise in Ihrer Region nicht erhältlich.