

MicroCloud SuperServer SYS-530MT-H12TRF

3U 12-Node MicroCloud with 2 internal fixed 3.5" NVMe/SAS drives per node



More details here

Key Applications

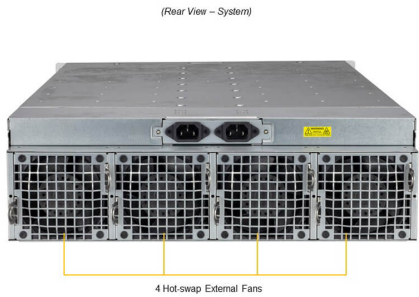
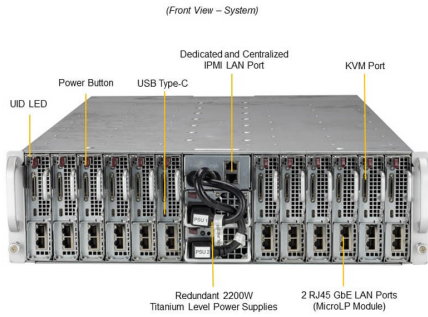
Cloud Computing, Web Hosting, VM, Online Game Server Hosting, IT Infrastructure, Web Cache, Social Networking,

Key Features

- 12 set of Intel® Xeon® E-2300 series and Pentium processor;
- Intel® C256;
- 12 set of Up to 128GB ECC/non ECC Very Low Profile UDIMM; DDR4 3200MHz, in 4 DIMM sockets;
- 12 set of PCIe 4.0 x8 Micro-LP slots (MicroLP upgradable);
- 12 set of Dual 1GbE LAN Ports;
- 12 set of 2x internal 3.5" SATA3 (6Gbps) (or) 4x 2.5" SATA3 drives with 2x Hybrid NVMe U.2; Intel® RSTe RAID;
- 4x 8cm Heavy duty fans with optimal cooling zone;
- 2200W Redundant Titanium Level high-efficiency power supplies with PMBus;



Form Factor	3U Rackmount Enclosure: 444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5") Package: 720.09 x 408.94 x 1075.944mm (28.35" x 16.1" x 42.36")
Processor	Single Socket H5 (LGA-1200) Intel® Xeon® processor E-2300 series and 10th Gen. Pentium® Processors Up to 8C/16T; Up to 16MB Cache
System Memory	Slot Count: 4 DIMM slots Max Memory (2DPC): Up to 128GB 3200MT/s ECC DDR4 UDIMM
Drive Bays Configuration	Default: Total 2 bays • 2 internal fixed 3.5" NVMe/SAS drive bays Option A: Total 4 bays • 4 internal fixed 2.5" NVMe/SATA drive bays M.2: 1 M.2 SATA slot (M-key 2280/22110)
Expansion Slots	Default • 1 PCIe 4.0 x8 MicroLP slot
On-Board Devices	SATA: SATA (6Gbps) via Intel® C256; RAID 0/1/5/10 support Chipset: Intel® C256 Network Connectivity: No NIC option supported
Input / Output	LAN: 2 RJ45 1 GbE LAN ports (Intel® I350) USB: 2 USB 2.0 ports 1 Type-C port(front) Video: 1 port DOM: 1 SATA DOM (Disk on Module) port



System Cooling	Fans: 4 Heavy Duty 9cm Fan(s) Air Shroud: 12 Air Shrouds
Power Supply	2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 128MB 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: 125 lbs (56.7 kg) Net Weight: 95 lbs (43.09 kg) Available Color: Black
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: 5% to 95% (non-condensing)
Motherboard	<u>Super X12STE-F</u>
Chassis	CSE-939HN-R2K20BP

Standard Parts (Parts Included)

Motherboard / Chassis					
Part Number	MBD-X12STE-F	CSE-939HN-R2K20BP			
Qty	12	1			
Description	SuperX12STE-F Motherboard	3U Chassis			
Add-on Card / Module					
Part Number	AOM-BPN-MC12SN-P	AOM-CGP-I2M-P	AOM-LAN-MC12S-P	AOM-PDB-MC12S-P	AOM-GEM-001-P
Qty	12	12	1	12	1
Description	2x NVMe U.2 + 2 NVMe SATA connectors BPNforMicroCloud12n	MicroLP 2-port GbE RJ45, Intel i350 for 12 node MicroCloud	AOM-LAN-MC12S-P	AOM-PDB-MC12S-O-P	AOM-GEM-001-O-P
Backplane					
Part Number	BPN-SAS-939HS				
Qty	1				
Description	(EOL)CSE939HS MicroCloud (12 nodes) Hot-Swap Backplane				
Cable					
Part Number	CBL-0218L	CBL-PWCD-0578-1 OR	CBL-PWCD-0578-IS	CBL-0355L	CBL-CDAT-0662
	CBL-PWCD-0859	CBL-PWCD-0860			
Qty	1	2	-	2	1
	1	1			
Description	11.5CM KVM/SUVI 36PIN TO 9PIN/15PIN/2USB	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	8 Pin to 8 Pin Round SGPIO Cable, 61.5cm, 28AWG, Pinout 1-1
	PWCD,US,IEC60320 C14 TO RA C13 w/SR for 939HS PSU1,3FT,14AWG	PWCD,US,IEC60320 C14 TO RA C13 w/SR for 939HS PSU2,3FT,14AWG			
Air Shroud					
Part Number	MCP-310-93904-0N				
Qty	12				
Description	Mylar air shroud for VLP 4 DIMM (short gap, quick install)				
Software					
Part Number	SFT-OOB-LIC				
Qty	12				
Description	License key for enabling OOB BIOS management				
Heatsink / Retention					
Part Number	SNK-P0047PSR OR	SNK-P0047PSRK			
Qty	12	-			
Description	LP CPU Heat Sink for 12-node Micro Cloud Series Servers	Low Profile CPU Heat Sink for MBI-6119G-C2 Micro Blade Server			
*Power Supply					
Part Number	PWS-2K20F-1R				
Qty	2				
Description	1U 2200W Redundant, Titanium,76(W) X 40(H) X 360(L) mm, flow in air				
*Power Distributor					
Part Number	PDB-PT939-DSG				
Qty	2				
Description	Adapter Board for SC939 special gold finger directly plug to BP.				
*Fan					
Part Number	FAN-0195L4				
Qty	4				

Description	92x92x76 mm Counter-rotating Cooling Fan for 3U12N Microclou
*Rail Set	
Part Number	MCP-290-41803-0N
Qty	1
Description	Fat twin F418 / F424 Static Rail set support 28.5-33.7 inch depth rail,RoHS/REACH,PBF

- 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

Add-on Card / Module	
Part Number	AOM-BPN-MC12S4-P
Qty	12
Description	4x NVMe U.2 connectors BPN for MicroCloud 12 node system,HF,RoHS

Bracket		
Part Number	MCP-290-93903-0N-PACK	MCP-240-93912-0N
Qty	1	12
Description	SC939HN bracket with FAN	Bracket for 4NVMe MB tray with NVMe standoff

Global Services & Support		
Part Number	OS4HR3/2/1	OSNBD3/2/1
	(/support/Global_Services.cfm).	
Qty	-	-
Description	3/2/1-year onsite 24x7x4 service	3/2/1-year onsite NBD service

Network Card(s)					
Part Number	AOM-C25G-m1SM	AOM-CTGS-i2TM	AOM-CTG-i1SM	AOM-CIBF-m1M	AOM-CTG-i2SM-12
	AOM-C25G-i2SM-12	AOM-CTG-B2TM			
Qty	-	-	-	-	-
	-	-			
Description	MicroLP, 1x 25GbE SFP28, PCIe 3.0 x8, Mellanox®	MicroLP, 2x 10GbE Base-T, PCIe 3.0 x4, Intel® X550	MicroLP, 1 x 10GbE SFP+, PCIe 2.0 x8, Intel® 82599EN, ver 1.21 only	MicroLP, 1 x 40GbE QSFP, PCIe 3.0 x8, Mellanox® ConnectX-3 FDR controller	MicroLP 2x 10GbE SFP+, PCIe 3.0 x8, Intel 82599ES
	MicroLP module 2-Port 25G SFP28, Intel E810-XXVAM2, for MicroCloud 12node	MicroLP 2-port 10GRJ45, Broadcom BCM57416. RoHS			

SATA DOM				
Part Number	MEM-IDSAHM3A-016G	MEM-IDSAHM3A-032G	MEM-IDSAHM3A-064G	MEM-IDSAHM3A-128G
Qty	-	-	-	-
Description	SATA3 DOM SH 3ME 16GB MLC 1ch Horizontal	SATA3 ServerDOM MH 3ME 32GB MLC w/ Pin8 VCC Horizontal	SATA3 ServerDOM MH 3ME 64GB MLC w/ Pin8 VCC Horizontal	SATA3 DOM SH 3ME3 V2 128GB MLC w/ Pin8 VCC Horizontal

Software	
Part Number	SFT-DCMS-Single
Qty	1
Description	DataCenter Management Package (per node license)

Certain products may not be available in your region