

MicroCloud A+ Server AS -3015MR-H8TNR

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



Key Applications

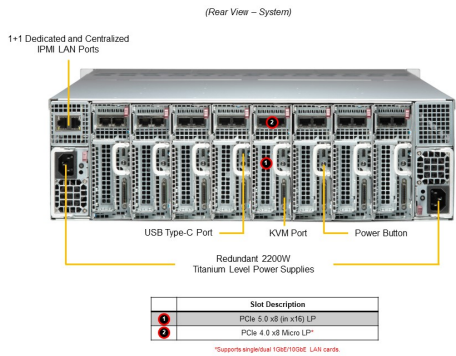
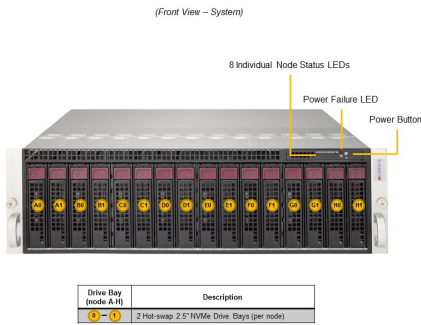
Cloud Computing, Web/Collocation Services, Web Cache, CDN, Video Streaming, Social Networking, Downloads, Corporate - WINS, DNS, Print, Login,

Key Features

- Single Socket AM5 (LGA-1718) AMD EPYC™ 4005/4004 or Ryzen™ 7000 / 9000 Series Processor up to 170W with air cooling;
- AMD Knoll - Integrated I/O Controller Hub;
- 8 sets of up to 192GB ECC/non ECC UDIMM; DDR5 5200MHz, in 4 DIMM sockets;
- 8 sets of 1 PCIe 5.0 x8 (in x16) LP slots + 1 Micro-LP slot;
- 8 sets of 2 front NVMe U.2/ SAS/ SATA3 drive bays with optional kits;
- 2200W Redundant 80+ 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 Socket AM5 (LGA-1718) AMD EPYC™ 4005/4004 Series Processor Up to 16C/32T; Up to 128MB Cache
GPU	Max GPU Count: Up to 1 single-width GPU Supported GPU: NVIDIA PCIe: T4, L4, A2
System Memory	Slot Count: 4 DIMM slots Max Memory (1DPC): Up to 192GB 5600MT/s ECC/non-ECC DDR5 UDIMM Max Memory (2DPC): Up to 192GB 3600MT/s ECC/non-ECC DDR5 UDIMM
Drive Bays Configuration	Default: Total 2 bays • 2 front fixed 3.5"/2.5" NVMe/SAS*/SATA* drive bays (*SAS/SATA support may require additional storage controller and/or cables) M.2: 1 M.2 NVMe/SATA slot (M-key 2280/22110)
Expansion Slots	Default • 1 PCIe 5.0 x8 (in x16) LP slot • 1 PCIe 5.0 x8 MicroLP slot
On-Board Devices	NVMe: NVMe; (Native) Chipset: AMD Knoll - Integrated I/O Controller Hub Network Connectivity: No NIC option supported
Input / Output	USB: 2 USB 2.0 ports 1 Type-C port(front) 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 32MB 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: -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 H13SRD-F
Chassis	CSE-938NH-R2K20BP2

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis					
Part Number	MBD-H13SRD-F	CSE-938NH-R2K20BP2			
Qty	8	1			
Description	Super H13SRD-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-IS OR	CBL-PWCD-0578-1	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 C13,910mm,14AWG,15A,250V, RoHS	PWCD,US,IEC60320 C14 TO C13,910mm,14AWG,RoHS	RJ45 C5E 2ft Green With Cover	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-P0076V				
Qty	8				
Description	1U Proprietary CPU Heat Sink for AS-531MR-H8TNR MicroCloud Server				
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			
Drive Tray(s)					
Part Number	MCP-220-93801-0B OR	MCP-220-00158-0B	MCP-220-00094-0B		
Qty	16	-	16		
Description	Black Hotswap Gen 6 3.5 to 2.5 HDD Tray (SC747, 936, 938 and Blade)	Black gen 6.5 hot-swap 3.5-to-2.5 Tool-less drive tray,RoHS	Black gen 6.5 hot-swap 3.5 inch HDD Tray		
*Power Supply					
Part Number	PWS-2K20A-1R				
Qty	2				
Description	1U 2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm				
*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	-		
Description	For AOC-S3908L-H8iR-16DD		
Drive Tray(s)			
Part Number	MCP-220-00158-0B	MCP-220-93801-0B	
Qty	1~16	1~16	
Description	Black gen 6.5 hot-swap 3.5-to-2.5 Tool-less drive tray	Black gen 6 hot-swap 3.5-to-2.5 HDD tray	
Global Services & Support			
Part Number	<u>OS4HR3/2/1</u> <u>OSNBD3/2/1</u> (<u>/support/Global_Services/OS4HR3/2/1</u>)(<u>/support/Global_Services.cfm</u>).		
Qty	-		
Description	3/2/1-year onsite 24x7x4 service 3/2/1-year onsite NBD service		
GPU			
Part Number	GPU-NVL4	GPU-NVA2-NC	GPU-NFR-NVTT4
Qty	-	-	-
Description	NVIDIA Ada L4 24GB GDDR6 PCIe Gen 4th-- 70w	NVIDIA Ampere A2 16GB GDDR6 PCIe 4.0 x8 -- w/o CEC 40~60W Configurable	NVIDIA TeslaT4 16GB GDDR6 PCIe3.0x16-- PassiveCooling 70w
GPU Air Shroud			
Part Number	MCP-310-93807-0B		
Qty	-		
Description	Mylar air shroud for GPU on MicroCloud 938NH,RoHS		
Network Card(s)			
Part Number	AOC-CGP-i2	AOC-CTGS-i2T-O	AOC-CTG-i2S
Qty	-	-	-
Description	Intel i350 2-port RJ45 1Gb Gen2 x4 Micro-LP	MicroLP Dual-port 10GbE RJ45, Intel X550 (Retail Pack)	(EOL_7/31/25) Intel 82599ES 2-port SFP+ 10Gb 2-port USB Gen2 x8 Micro-LP
Software			
Part Number	<u>SFT-DCMS-Single</u>		
Qty	-		
Description	DataCenter Management Package (per node license)		
Storage Controller Card(s)			

Part Number	<u>AOC-S3908L-H8IR-16DD</u> <u>(./products/accessories/addon/AOC-S3908L-H8IR S3916L-H16IR.php).</u>
Qty	-
Description	8 int 12Gb/s ports, x8 Gen4, ROC - LP, 16 HDD w/ exp,RoHS

Bestimmte Produkte sind möglicherweise in Ihrer Region nicht erhältlich.