

MicroCloud A+ Server AS -3015MR-H5TNR

3U 5-Node MicroCloud with double-width GPU support

Key Applications

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

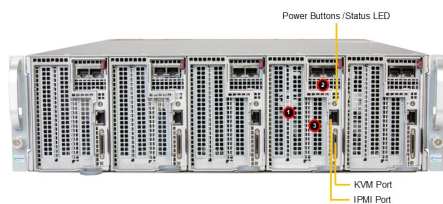
Key Features

- Single Socket AM5 (LGA-1718) AMD EPYC™ 4005/4004 or Ryzen™ 7000 / 9000 Series Processor up to 170W with air cooling;
- Support for up to 1 double-width PCIe GPU accelerator card;
- Up to 192GB DDR5-5600MT/s (1DPC)/ 3600MT/s (2DPC), in 4 DIMM sockets;
- Default Config: 1 PCIe 5.0 x16 FHFL + 1 PCIe 5.0 x4 MicroLP slots
Optional Config: 2 PCIe 5.0 x8 (1 FHFL + 1 LP) + 1 PCIe 5.0 x4 MicroLP slots;
- Up to 2 internal fixed 2.5" NVMe + 2 internal fixed 2.5" SATA drive bays;
- 4 Redundant 2000W Titanium Level power supplies;
- 3U Rackmount chassis with 30.51" (775mm) depth;



Form Factor	3U Rackmount Enclosure: 449 x 131 x 775mm (17.68" x 5.16" x 30.51")
Processor	Single Socket AM5 (LGA-1718) AMD EPYC™ 4005/4004 Series Processor Up to 16C/32T; Up to 128MB Cache
GPU	Up to 1 double-width GPU
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 4 bays <ul style="list-style-type: none"> • 2 internal fixed 2.5" PCIe 5.0 NVMe drive bays • 2 internal fixed 2.5" SATA drive bays M.2: 1 M.2 NVMe slot (M-key 2280/22110)
Expansion Slots	Default <ul style="list-style-type: none"> • 1 PCIe 5.0 x16 FHFL double-width slot • 1 PCIe 5.0 x4 MicroLP slot Option A <ul style="list-style-type: none"> • 1 PCIe 5.0 x8 FHFL slot • 1 PCIe 5.0 x4 MicroLP slot • 1 PCIe 5.0 x8 LP slot
On-Board Devices	NVMe: NVMe; (Native) Network Connectivity: No NIC option supported
Input / Output	USB: 2 USB 2.0 ports Video: 1 port TPM: 1 TPM Onboard/port 80

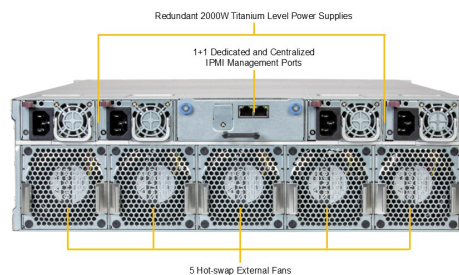
(Front View – System)



Slot Description	
Default	Optional Configuration*
1 PCIe 5.0 x16 FHFL	PCIe 5.0 x8 FHFL
2 PCIe 5.0 x4 Micro LP†	PCIe 5.0 x4 Micro LP†
...	PCIe 5.0 x8 LP

*Supports Intel 12th/13th/14th Gen and optional 2 PCIe 5.0 x4 via M.2 1.2

(Rear View – System)



System Cooling	Fans: Up to 5 Heavy Duty 8cm Fan(s) Air Shroud: 10 Air Shrouds
Power Supply	4x 2000W Redundant (3 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); 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	CPU: 3-Phase-switching voltage regulator with auto-sense from 0.5V-2.3V Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. Fan: Fan speed control, Dual Cooling Zone Temperature: Monitoring for CPU and chassis environment
Dimensions and Weight	Weight: Gross Weight: 147 lbs (66.68 kg) Net Weight: 107.5 lbs (48.76 kg) Available Color: No Paint
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	<u>Super H13SRE-F</u>
Chassis	CSE-MC301G-000NFP