Mainstream A+ Server AS -1015A-MT

Key Applications

Web/Hosting Application, Email/Firewall/Application Server, Designed for small and medium businesses,

Key Features

- AMD Ryzen™ 7000 Series LGA1718 up to 170W TDP Processors;
- 4x DDR5 UDIMM Slots, ECC/Non-ECC DDR5-5200 Up to total 128GB;
- 1x PCIe 5.0 x16 (FHHL) slot;
- 2x 1GbE LAN (Intel® I210-AT); IPMI 2.0 + KVM with Dedicated LAN (1GbE);
- 500W High-Efficiency Power Supply Platinum Level Certified;

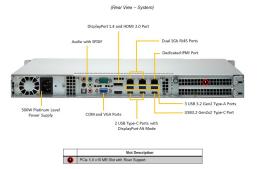|	
Form Factor	1U Rackmount Enclosure: 437 x 43 x 429mm (17.2" x 1.7" x 16.9") Package: 686 x 203 x 610mm (27" x 8" x 24")
Processor	Single Socket AMD Ryzen™ 7000 Series Processors Up to 16C/32T Supports 60W - 60W TDP CPUs (Air Cooled)
GPU	Max GPU Count: Up to 1 single-width GPU(s) Supported GPU: NVIDIA PCIe: A2,L4 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 4 DIMM slots Max Memory (2DPC): Up to 192GB 5200MT/s ECC DDR5 UDIMM
Drive Bays	1x 3.5" SATA drive bays (or up to 4x 2.5" SATA drive bays via optoinal brackets) 2x NVMe (PCIe 5.0x4) M-Key, 2280/22110
Expansion Slots	1 PCIe 5.0 x16 slot(s)
On-Board Devices	Chipset: AMD B650 Network Connectivity: 1x 1GbE BaseT with Realtek RTL8211F PHY (dedicated IPMI) 2x 1GbE BaseT with Intel® I210-AT IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	SATA: 4 SATA (6Gbps) port(s) USB: 6 USB port(s) (3 rear; 2 rear; 1 rear) Video: 1 VGA port(s) 1 HDMI port(s) 1 DisplayPort port(s) TPM: TPM header Serial Port: 1 COM Port(s) (1 rear)

(Front View – System)

(Rear View – System)

Power Button
Reset Button
Status LEDs

DisplayPort 1.4 and HDMI 2.0 Port
Audio with SPDIF
Dual 1Gb RJ45 Ports
Dedicated IPMI Port
500W Platinum Level Power Supply
COM and VGA Ports
2 USB Type-C Ports with DisplayPort Alt Mode
3 USB 3.2 Gen2 Type-A Ports
USB3.2 Gen2x2 Type-C Port

Slot Description
❶ PCIe 5.0 x16 MB Slot with Riser Support

System Cooling	Fans: 6x 40mm Fan(s)
Power Supply	500W Platinum Level power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
PC Health Monitoring	FAN: Status monitor for speed control Voltage: +1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, 5 (4-pin), CPU, CPU temperature, CPU thermal trip support, PCH temperature, System temperature, VBAT, VRM Other Features: 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor Temperature: CPU thermal trip support, Monitoring for CPU and chassis environment, PECI
Dimensions and Weight	Height: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 16.9" (429 mm) Gross Weight: 16 lbs (7.26 kg) Packaging: 8" (H) x 27" (W) x 24" (D) Available Color: Silver
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	[Super H13SAE-MF](#)
Chassis	[CSE-514-505](#)

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis
Part Number	MBD-H13SAE-MF	CSE-514-505
Qty	1	1
Description	Super H13SAE-MF Motherboard	1U Chassis

Cable
Part Number	CBL-0061L	CBL-0082L	CBL-0296L	CBL-0156L	CBL-PWCD-0160-IS
Qty	1	1	6	1	1
Description	7pin SATA (STR to STR), 31.5cm, Flat, PBF	Y SPLIT SATA POWER ADAPTER, PB FREE	9" 4 PIN FAN PWS EXTENSION CORD, PBF	ROUND 16PIN TO 16PIN FP CABLE,40CM, PB FREE	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH

Fan
Part Number	FAN-0156L4
Qty	6
Description	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH

Parts
Part Number	MCP-260-00186-0N	MCP-260-00078-0N
Qty	1	1
Description	1U I/O Shield for H13SAE-MF with EMI Gasket	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF

Riser Card
Part Number	RSC-S-6G5
Qty	1
Description	1U LHS Standard Riser card with one PCIe 5.0 X16 slot.,H

Software
Part Number	SFT-OOB-LIC
Qty	1
Description	License key for enabling OOB BIOS management

Heatsink / Retention
Part Number	SNK-P0076V
Qty	1
Description	1U Proprietary CPU Heat Sink for AS -531MR-H8TNR MicroCloud Server

*Power Supply
Part Number	PWS-505P-1H
Qty	1
Description	1U 500W Multi-output, Platinum level w/ PMbus 24pin, W100xL180xH40mm,RoHS/REACH

*Rear Window
Part Number	MCP-240-51402-0N
Qty	1
Description	rear window for SC514 single PWS chassis

*Front Panel
Part Number	MCP-280-51201-0N
Qty	1
Description	Front control board (FP512) for SC512 (surface-mounted LED)

*Rail Set
Part Number	MCP-290-00102-0N	MCP-290-00108-0N
Qty	1set	1set
Description	Outer rail, quick-release type, 25.6	Inner rail, front, short, quick-release type

*Fan Holder
Part Number	MCP-320-81801-0B	MCP-340-00035-0B
Qty	3	2
Description	SC818G 2x 4056 fan tray,HF,RoHS,PBF	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

3.5in fixed HDD tray
Part Number	MCP-220-51402-0N
Qty	1
Description	3.5in fixed HDD tray for SC513,514,515,812L,812U,523,HF,RoHS/REACH

Dual 2.5 HDD bracket
Part Number	MCP-220-51401-0N
Qty	2
Description	Dual 2.5 HDD bracket (bracket base not follow std 2.5" HDD screw holes)

GPU power extender cable
Part Number	CBL-PWEX-1040 eStore (https://store.supermicro.com/supermicro-8-pin-to-two-6-2-pin-5cm-power-gpu-cable-cbl-pwex-1040.html)
Qty	1
Description	PWYCB,GPU,2x4M/CPU to two (2x3F+2x1F)/PCIe,P4.2, 5CM,16/20AW

Slimline x8 (STR) to 4x SATA
Part Number	CBL-SAST-1251-100
Qty	1
Description	Slimline x8 (STR) to 4x SATA,60/50/50/60CM,SB 5CM,100 OH

TPM
Part Number	AOM-TPM-9670V
Qty	1
Description	SPI TPM 2.0