AMD EPYC (H14) | 10U Rackmount | GPU Server

Supermicro AS-A126GS-TNMR

AMD EPYC (H14) · 10U Rackmount · GPU Server Server

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Form Factor	CPU
10U Rackmount	AMD EPYC™ 9005/9004 Series Processors
GPU	**Memory**
8 onboard GPUs	Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)

Key Features

- Dual AMD EPYC™ 9005/9004 Series Processors
- Supports up to 24 DIMM slots, 6400 MT/s 6TB DDR5 memory (1DPC only)(Please check System Memory Section for detail)
- 8 front hot-swap 2.5" NVMe + 2 hot-swap 2.5" SATA drive baysDual Serviceable M.2 slots with RAID
- Total of 8x MI355x onboard OAM GPU accelerator modules (Air-cooled)
- 8 PCIe 5.0 x16 LP + 2 PCIe 5.0 x16 FHHL slotsDual 10G NIC (X710), 1 VGA, 2 USB 3.0, and 1 Dedicated IPMI
- Total of 6x 6600W (4+2) Titanium Level redundant power supplies(Power supply full redundancy based on configuration and application load)

Form Factor	10U Rackmount
Platform	AMD EPYC (H14)
CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Max GPU Count	8 onboard GPUs
Supported GPU	AMD: Instinct™ MI355X Accelerators
Memory	Slot Count: 24 DIMM slots/1 Channels Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)
Drive Bays	Default: Total 10 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays 2 front hot-swap 2.5" SATA drive bays
Fans	Up to 19x 8cm heavy duty fans with optimal fan speed control
Power Supply	6x 6600W Redundant (4 + 2) Titanium Level (96%) power supplies

Full Specifications — AS-A126GS-TNMR

Product SKUs

Part numbers	AS -A126GS-TNMR

Motherboard

Motherboard	A+ Motherboard® H14DSG-OD

Processor

CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Core Count	Up to 384C/768T
Note	Supports up to 500W TDP CPUs

GPU

Max GPU Count	8 onboard GPUs
Supported GPU	AMD: Instinct™ MI355X Accelerators View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	AMD Infinity Fabric™ Link

System Memory

Memory	Slot Count: 24 DIMM slots/1 Channels Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	2 RJ45 10GbE with Intel® X710 View AIOM Options View AOC Options

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 Type-A ports (Rear)
Video	1 VGA port
TPM	1 TPM header

System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM

Management

Software	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!
Power configurations	ACPI Power Management Power-on mode control for AC power loss recovery Power button override mechanism,

Security

Hardware	Trusted Platform Module (TPM) 2.0
Features	Automatic Firmware Recovery Cryptographically Signed Firmware Runtime BMC Protections Secure Boot Secure Firmware Updates Supply Chain Security: Remote Attestation System Lockdown

PC Health Monitoring

CPU	Monitors for CPU Cores, Chipset Voltages, Memory
Fan	Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors
Voltage	System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support

Certifications

Operating Systems	Oracle Linux 9.6, RHEL 10.0 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	10U Rackmount

Model	CSE-GP1001TS-R000NPF2

Dimensions and Weight

Height	17.2" (438.8 mm)
Width	17.6" (449 mm)
Depth	33.2" (843.28 mm)
Package	27.95" (H) x 28.74" (W) x 50.39" (D)
Weight	Gross Weight: 341 lbs (155 kg) Net Weight: 293 lbs (133 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID/ Reset button
LED	HDD activity Network activity LEDs System information (overheat/UID) UID

Expansion Slots

PCI-Express (PCIe) Configuration	Default8 PCIe 5.0 x16 LP slots 2 PCIe 5.0 x16 FHHL slots View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 10 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays 2 front hot-swap 2.5" SATA drive bays View NVMe Options View Drive Options
M.2	2 M.2 NVMe slots (M-key) View M.2 Options

System Cooling

Fans	Up to 19x 8cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

Power Supply

6x 6600W Redundant (4 + 2) Titanium Level (96%) power supplies

Dimension (WxHxL)	106.5 x 82.1 x 245.3 mm

Input	5900W: 200-207.9Vac / 50-60Hz 6000W: 208-219.9Vac / 50-60Hz 6300W: 220-229.9Vac / 50-60Hz 6500W: 230-238.9Vac / 50-60Hz 6600W: 239-240Vac / 50-60Hz
+12V	Max: 130A / Min: 0A (200Vac-207.9Vac) Max: 130A / Min: 0A (208Vac-219.9Vac) Max: 130A / Min: 0A (220Vac-229.9Vac) Max: 130A / Min: 0A (230Vac-238.9Vac) Max: 130A / Min: 0A (239Vac-240Vac)
12V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

Operating Environment

Environmental Spec.	Operating Temperature: 10°C to 35°C (50°F to 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)