

TECHNICAL DATASHEET

SUPERMICRO • GPU & AI SERVERS

Supermicro 10U GPU Server AS-A126GS-TNMR

DP 10U AMD GPU System with AMD Instinct MI355X Accelerators

SKU AS-A126GS-TNMR

10U

SP5

Supermicro



FORM FACTOR

10U

MAX POWER (BASE)

509 W

HEAT OUTPUT

1,737 BTU/h

PRICE

On request

CONFIGURE & QUOTE ONLINE

serverinvest.com/product/as-a126gs-tnmr

01 Product overview

The Supermicro AS-A126GS-TNMR is a 10U GPU Server built on AMD EPYC 9005 with up to 6 TB of memory in 24 DIMM slots.

DP 10U AMD GPU System with AMD Instinct MI355X Accelerators.

ServerInvest configures every AS -A126GS-TNMR to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- AMD EPYC 9005
- Up to 6 TB memory · 24 DIMM slots
- Total 10 bays 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays
- Power: 6x 6600W
- Networking: 2 RJ45 10GbE with Intel X710

KEY SPECIFICATIONS

Form factor	10U
Processor	AMD EPYC 9005
Socket	SP5
Memory	24 DIMM slots, up to 6 TB
Memory type	DDR5-6400 ECC RDIMM
Drive bays	12 (12 NVMe)
Power supply	6× 6600 W
Typical power draw	450 W
Networking	2 RJ45 10GbE with Intel X710
Dimensions (W×H×D)	437 × 445 mm



02 Base configuration

Components included in the listed base price — every part can be changed in the online configurator

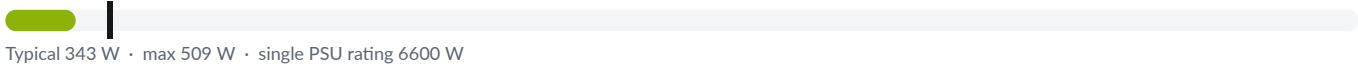
COMPONENT	DESCRIPTION	QTY
Base system	Supermicro 10U GPU Server AS-A126GS-TNMR	1
Processor	AMD EPYC 9135 - 16 Cores, 3.65/4.30GHz, 64MB Cache (200 Watt)	1
Memory	16GB 6400MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

Price on request — contact us for a tailored quotation

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
163 W	343 W	509 W	1,737 BTU/h	0.5 kW	8%



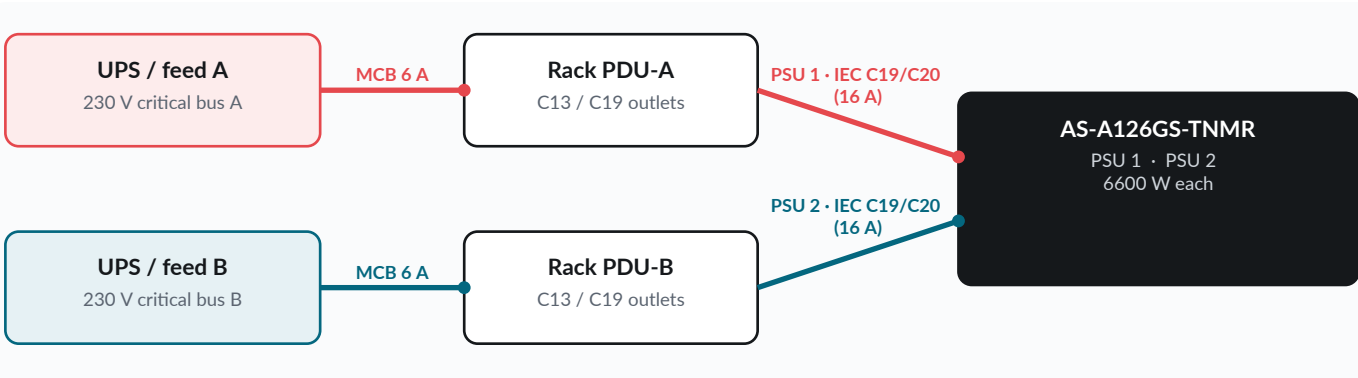
Annual IT energy (24/7)	2,532 kWh
Annual facility energy (PUE 1.5)	3,798 kWh
Annual energy cost	€506 IT · €760 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.99 t (grid factor 0.26 kg/kWh)
Power supplies	6× 6600 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	117 W	182 W	260 W
CPU — AMD EPYC 9135 - 16 Cores	30 W	130 W	200 W
2× Memory 16 GB DIMM	6 W	10 W	18 W

DC loads converted to wall power at 94% PSU efficiency; typical load assumed 70% of the time. Engineering estimates — confirm with the manufacturer's power calculator for critical designs.

04 Power connection diagram

Dual-feed (A/B) connection for redundant power supplies



- Connect PSU 1 to PDU-A and PSU 2 to PDU-B (independent feeds) using IEC C19/C20 (16 A) power cords.
- Maximum current per feed: 2.3 A at 230 V — each feed must be able to carry the full load if the other fails.
- Recommended protection per PDU circuit: MCB 6 A, curve C; RCD according to local regulations.
- Heat to remove at full load: 509 W = 1,737 BTU/h (0.5 kW).

05 Full specifications

MOTHERBOARD	
	Super 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
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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
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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
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Features	Automatic Firmware Recovery Cryptographically Signed Firmware Runtime BMC Protections Secure Boot Secure Firmware Updates Supply Chain Security: Remote Attestation System Lockdown
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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
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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	Default 8 PCIe 5.0 x16 LP slots 2 PCIe 5.0 x16 FHHL slots View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 10 bays 8 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
6x 6600W Redundant (4 + 2) Titanium Level (96%) power supplies
Dimension (WxHxL)
106.5 x 82.1 x 245.3 mm

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)
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06 Built, tested & supported by ServerInvest

Engineered configuration

Every option validated for socket, memory channels, PCIe lanes, power and cooling.

48-hour burn-in

Assembled, firmware-updated and stress-tested before it leaves our workshop.

3-year warranty

Standard on every system, with on-site next-business-day upgrades available.

Rack-ready delivery

Rails, cable management and labelling included — delivered across Europe.



Ready to order or need changes?

Configure this system online or talk to a solutions engineer — we reply within one business day.

office@serverinvest.com

Official manufacturer datasheet: serverinvest.com/product/as-a126gs-tnmr/datasheet/manufacture

