

GPU A+ Server AS -4126GS-NMR-LCC

DP AMD 4U Liquid-Cooled System with AMD Instinct™ MI355X 8-GPU (onsite service is required for liquid-cooling) ;



Key Applications

- High Performance Computing
- AI/Deep Learning Training
- Industrial Automation, Retail
- Healthcare
- Conversational AI
- Business Intelligence & Analytics
- Drug Discovery
- Climate and Weather Modeling
- Finance & Economics

Key Features

Dual processor(s) AMD EPYC™ 9005/9004 Series Processors up to 500W with Liquid Cooling
Supports up to 24 DIMMs slots, 6400 MT/s 6TB DDR5 in 1DPC
(Please check System Memory Section for detail)
Supports up to 8 PCIe 5.0 x16 LP + 2 PCIe 5.0 x16 FHHL slots
2 RJ45 10GbE
Total of 8 front hot-swap 2.5" NVMe drive bays
8x MI325x or MI355x onboard OAM GPU accelerator modules
Total of 4 Redundant (2+2) 6600W Titanium Level power supplies
(Power supply full redundancy based on configuration and application load)

Compare ☐

Configure & Buy

Specifications

Product SKUs
A+ Server AS -4126GS-NMR-LCC
A+ Server AS -4126GS-NMR-LCC-G1 Gold Series version with pre-configured components

Motherboard
Super H14DSG-OD
(<https://www.supermicro.com/en/products/motherboard/h14dsod>).

Processor
CPU
Dual processor(s)
AMD EPYC™ 9005/9004 Series Processors
(<https://www.supermicro.com/en/support/resources/cpu-amd-epyc-9005-9004-7003>).

Core Count
Up to 384C/768T
Note
Supports up to 500W TDP CPUs (Liquid Cooled)

GPU
Max GPU Count
Up to 8 onboard GPUs
Supported GPU
AMD: Instinct™ MI355X Accelerators, Instinct™ MI325X Accelerators
[View GPU Options](#)

www.supermicro.com/en/support/resources/ltr_sku%3DAS%20-4126GS-NMR-LCC

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
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
Chipset
System on Chip
Network Connectivity
[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

Chassis
Form Factor
4U Rackmount
Model
CSE-GP403TS-R000NP2

Dimensions and Weight
Height
6.85" (174 mm)
Width
17.6" (449 mm)
Depth
35.25" (895.35 mm)
Package
16.14" (H) x 50.39" (W) x 28.7" (D)
Weight
Gross Weight: 140 lbs (63.5 kg)
Net Weight: 80 lbs (53 kg)
Available Color
Silver

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

Expansion Slots
PCI-Express (PCIe) Configuration
Default
8 PCIe 5.0 x16 LP slots
2 PCIe 5.0 x16 FHHL slots

[View AOC Options](#)
M.2
2 M.2 NVMe slots (M-key 22110(default))
Drive Bays / Storage
Drive Bays Configuration
Default: Total 8 bays
8 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays

[View NVMe Options](#)
[View Drive Options](#)
M.2
2 M.2 NVMe slots (M-key)
[View M.2 Options](#)
www.supermicro.com/en/support/resources/AS4126GS-90479&ProductName=AS4126GS-90479

System Cooling
Fans
Up to 5x 6cm heavy duty fans with optimal fan speed control
Air Shroud
1 Air Shroud
Liquid Cooling
Direct to Chip (D2C) Cold Plate

Power Supply

Software

SuperCloud Composer®
(<https://www.supermicro.com/en/solutions/management-software/supercloud-composer>).
Supermicro Server Manager (SSM).
(<https://www.supermicro.com/en/solutions/management-software/supermicro-server-manager>).
Supermicro Update Manager (SUM).
(<https://www.supermicro.com/en/solutions/management-software/supermicro-update-manager>).
Supermicro SuperDoctor® 5 (SD5).
(<https://www.supermicro.com/en/solutions/management-software/superdoctor>).
Super Diagnostics Offline (SDO).
(<https://www.supermicro.com/en/solutions/management-software/super-diagnostics-offline>).
Supermicro Thin-Agent Service (TAS).
(<https://www.supermicro.com/en/solutions/management-software/thin-agent-service>).
SuperServer Automation Assistant (SAA) New!
(<https://www.supermicro.com/en/solutions/management-software/superserver-automation-assistant>).

Security

Hardware

Trusted Platform Module (TPM) 2.0

PC Health Monitoring

CPU

Monitors for CPU Cores, Chipset Voltages, Memory

FAN

Fans with tachometer monitoring

Status monitor for speed control

Pulse Width Modulated (PWM) fan connectors

Temperature

Monitoring for CPU and chassis environment

Thermal Control for fan connectors

4x 6600W

4x 6600W Redundant (2 + 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)

Max: 4A / Min: 0A

12V SB

Output Type

Backplanes (gold finger)

Certification



(http://www.plugloadsolutions.com/80PlusP_id=69&type=2). Titanium Level

[Test Report

([https://www.supermicro.com/products/power:6K61G-2R.pdf](https://www.supermicro.com/products/power/6K61G-2R.pdf)).]

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)

Free Remote Testing

Parts List

Optional Parts List

8x Power Supply optional parts

Part Number PWS-3K06G-2R [Store](https://store.supermicro.com/3000w-2u-pws-3k06g-2r.html?utm_source=corp_partslist&utm_medium=referral)
(https://store.supermicro.com/3000w-2u-pws-3k06g-2r.html?utm_source=corp_partslist&utm_medium=referral).

Qty 2

Description	AC-DC 3000W, Titanium efficiency, DC output: 54Vdc/45A	
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8x SATA optional sets

Part Number	CBL-GNZ2-1221MTS4	MCP-220-00147-0B • eStore (https://store.supermicro.com/mcp-220-00147-0b.html?utm_source=corp_partslist&utm_medium=referral)
Qty	1	5
Description	GenZ 2C+2 mount holes to SlimSAS x8,21cm,31AWG,RoHS	Black gen-3 hot-swap 2.5" Tool-less HDD tray (clip design)

Side expention sets

Part Number	AOM-DP801-PCIE-P	AOM-DP801-SW-P	CBL-PWEX-1142B-40 • eStore (https://store.supermicro.com/supermicro-microhi-2x4-to-microhi-2x4-40cm-power-cable-cbl-pwex-1142b-40.html?utm_source=corp_partslist&utm_medium=referral)	CBL-MCIO-1255M5 • eStore (https://store.supermicro.com/mcio-x8-str-to-str-55cm-30awg-rohs.html?utm_source=corp_partslist&utm_medium=referral)
Qty	1	1	1	4
Description	NIC Riser board(After Mid-Plane) for Delta-Next GPU System,RoHS	NIC adaptor board with PLX switch for Delta-Next GPU system,RoHS	MicroHi(2x4 to 2x4), PH3.0, 40cm, 8.5A/p, 18AWG, RoHS	MCIO x8 (STR to STR),55CM,30AWG,RoHS

Certain products may not be available in your region