# Supermicro GPU Server 4124GS-TNR

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## Highlights

High performance GPU server for AI, deep learning training, and big data analytics.
Reduce cost and time spending with our global partner model based on your specific requirements. Let Blue Line take responsibility for delivery on time. Blue Line's ultimate goal is to help our customers get peace of mind by handling all relevant details such as securing the right configuration, software setup, mounting, packaging, labeling etc. Ask for references from your industry.

# Supermicro GPU Server 4124GS-TNR

- 4U rack mount chassis

- Dual AMD EPYC 7002 Series Processors

- Up to 10 double-width GPUs

- Direct connect for maximum performance

- Build-to-order configured to the requirements

## Specifications

### Model Type

GPU server

### Form Factor

4U rackmount
Rackmount kit (MCP-290-00057-0N)

### Cooling

8 x 11.5K RPM Heavy duty fans

### Environment

| | |
|---|---|
| Operating temperature | 10°C to 35°C |
| Non-operating temperature | -40°C to 60°C |
| Operating humidity | 8% to 90% (non-condensing) |
| Non-operating humidity | 5% to 95% (non-condensing) |

### Processor

| | |
|---|---|
| CPU | Dual AMD EPYC™ 7002 Series Processors |
| | Socket SP3 |
| | Supports CPU TDP up to 280W* |
| Cores / cache | up to 128 Cores (64 per CPU) |

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| Notice* | CPUs with high TDP may be supported only under specific conditions. Please contact Blue Line for additional information |
|---|---|

## Chipset

System on Chip (SoC)

## RAM

| Memory capacity | 32 DIMM slots |
|---|---|
| | up to 8TB 3DS ECC DDR4-3200MH RDIMM/LRDIMM |
| Memory type | 3200MHz ECC DDR4 RDIMM/LRDIMM |

## Storage

Up to 24 x 2.5" SAS/SATA drive bays
4 x 2.5" SATA supported natively
4 x 2.5" NVMe supported natively

## Input / Output

| Rear | 2 x RJ45 GbE LAN ports |
|---|---|
| | 1 x RJ45 Dedicated IPMI LAN port |
| | 2 x USB 3.0 ports |
| | 1 x USB 2.0 port |
| | 1 x VGA Connector |
| Internal | 24 x SATA3 (6Gbps) ports |
| | 1 x COM port |

## Expansion

10 x PCI-E 4.0 x16 (FH, FL) slots
1 x PCI-E 4.0 x8 (FH, FL) slot

## Management Software

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IPMI 2.0

KVM with dedicated LAN

SSM, SPM, SUM

SuperDoctor® 5

Watchdog

## Operating System

Windows 10

Windows Server 2019

Linux

## Power Supply

| | |
|---|---|
| Total output power | 2000W redundant power supplies with PMBus |
| | 1000W: 100 to 127Vac |
| | 1800W: 200 to 220Vac |
| | 1980W: 220 to 230Vac |
| | 2000W: 230 to 240Vac |
| | 2000W: 220 to 240Vac (UL only) |
| Input | 100 to 127Vac / 12 to 9A / 50 to 60Hz |
| | 200 to 220Vac / 10 to 9.8A / 50 to 60Hz |
| | 220 to 230Vac / 10 to 9.8A / 50 to 60Hz |
| | 230 to 240Vac / 10 to 9.8A / 50 to 60Hz |
| | 220 to 240Vac / 11 to 10A / 50 to 60Hz (UL only) |
| +12V | max: 83A / Min: 0A (100 to 127Vac) |
| | max: 150A / Min: 0A (200 to 220Vac) |
| | max: 165A / Min: 0A (220 to 230Vac) |
| | max: 166A / Min: 0A (230 to 240Vac) |
| | max: 166A / Min: 0A (220 to 240Vac) (UL only) |
| 12Vsb | max: 3.5A / Min: 0A |

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| | |
|---|---|
| Output type | 25 pairs gold finger connector |

## Dimension and Weight

| | | |
|---|---|---|
| | H 178 x W 437 x D 737mm | Net weight 29.7kg |
| | | Gross weight 45.3kg |

## Accessories Included

| | |
|---|---|
| MCP-290-00057-0N | Rail set, quick/quick, default for 4U 17.2"; W |
| SFT-OOB-LIC | OOB management package (per node license) |

## Accessories Optional

| | |
|---|---|
| MCP-230-41803-0N | Top cover for GTX card support |
| MCP-230-41806-0N | Top cover for NVLINK BRIDGE support |
| MCP-220-00121-0B | Black Gen-3 2.5" NVMe drive tray. Orange tab with lock |
| MCP-220-00167-0B | Black Gen-3 2.5" NVMe drive tray. Orange tab with lock, Tool-less |
| MCP-240-00096-0N | GPU / Add-on card dummy assembly (2 Slots) |
| CBL-PWEX-0665 | GPU power cable (for NVIDIA P40, M40, M60, AMD MI25). 8pin female BLK to 8pin female WHT. 30cm 18AWG |
| CBL-PWEX-1017 | GPU power cable (for NVIDIA QUADRO, GTX). 8pin female CPU blue to 2x 6pin female / 2x 1pin female. 20cm 16AWG/20AWG |
| CBL-PWEX-1040 | GPU power cable (for NVIDIA QUADRO, GTX). 8pin male CPU to 2x 6pin female / 2x 1pin female. 5cm 20AWG/16AWG |
| AOC-S3008L-L8I2 | Broadcom 3008 STD LP 8 internal ports, 12Gb/s per port - SAS HBA adapter card, RAID 0,1,1E,10 |
| AOC-S3008L-L8E2 | Broadcom 3008 STD LP 8 internal ports, 12Gb/s per port - SAS HBA adapter card, HBA only |
| AOC-S3108-H8IR2 | Broadcom 3108 STD LP 8 internal ports, 12Gb/s per port - SAS HBA adapter card, RAID 0,1,5,6,10,50,60 |
| AOC-S3108L-H8IR-16DD | Broadcom 3108 STD LP 8 internal ports, 12Gb/s per port - SAS HBA adapter card, RAID 0,1,5,6,10,50,60. Maximum 16 HDD support with expander backplane |

| | |
|---|---|
| CBL-SAST-0531 | n/a |
| MCP-240-00127-0N | Remote mounting bracket for supercap. Installs in 2.5" drive tray |
| BKT-BBU-BRACKET-05 | Remote mounting board for supercap. Installs in 2.5" drive tray. |

## Warranty and After Sales Support

Standard 1 year hardware warranty for barebone

3 year hardware warranty & 1 year cross shipment for complete system CPU / MEM / DISK

Option for 5 year hardware warranty & 1 year cross shipment / 3 year hardware warranty & 3 year cross shipment