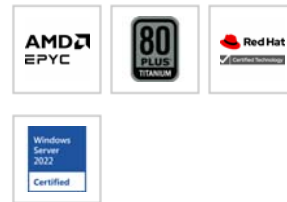


G293-Z41 (rev. AAP1)

HPC/AI Server - AMD EPYC™ 9004 - 2U DP 4 x PCIe Gen5 GPUs | Application: AI , AI Training , AI Inference & HPC

- Supports up to 4 x Dual slot Gen5 GPU cards
- AMD EPYC™ 9004 series processors
- Dual processor, 5nm technology
- 12-Channel RDIMM DDR5, 24 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s BASE-T LAN ports (Broadcom® BCM57416)
- 1 x Dedicated management port
- 4 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable bays
- 4 x 2.5" SATA/SAS hot-swappable bays
- 4 x FHFL PCIe Gen5 x16 or 8 x FHFL PCIe Gen5 x8 slots for GPUs
- 2 x LP PCIe Gen5 x16 slots for add-on cards
- Dual 3000W (240V) 80 PLUS Titanium redundant power supply



Compare



OVERVIEW

SPECIFICATIONS

SUPPORT

RESOURCES

BUY

G293-Z41 (rev. AAP1)

Dimensions (WxHxD, mm)

2U
448 x 87.5 x 800

Motherboard

MZ43-G20

CPU

AMD EPYC™ 9004 series processors
Dual processor, 5nm technology
Up to 32-core, 64 threads per processor
CPU TDP up to 210W

cTDP 240W supported at ambient 30°C

NOTE: If only 1 CPU is installed, some PCIe or memory functions might be unavailable

Socket

2 x LGA 6096
Socket SP5

Chipset

System on Chip

Memory

24 x DIMM slots
DDR5 memory supported only
12-Channel memory architecture
RDIMM modules up to 96GB supported
3DS RDIMM modules up to 256GB supported
Memory speed: Up to 4800 MHz

LAN

Rear side:
2 x 10Gb/s BASE-T LAN ports (1 x Broadcom® BCM57416)
Supported NCSI function

1 x 10/100/1000 management LAN

Video

Integrated in Aspeed® AST2600
2D Video Graphic Adapter with PCIe bus interface
1920x1200@60Hz 32bpp, DDR4 SDRAM

Storage

Front side:
4 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable bays
4 x 2.5" SATA/SAS hot-swappable bays
- (NVMe from CPU_1, SATA from CPU_1)

SAS card is required for SAS devices support

SAS

Depends on SAS Add-on card

RAID

N/A

Expansion Slots

Riser Card CRSG821 x 2:

- 2 x PCIe x16 (Gen5 x16) or 4 x PCIe x16 (Gen5 x8) FHFL slots, from PS7101, for GPUs

Riser Card CRSG822 x 2:

- 2 x PCIe x16 (Gen5 x16) or 4 x PCIe x16 (Gen5 x8) FHFL slots, from PS7101, for GPUs

Riser Card CRSG01F x 2:

- 2 x PCIe x16 (Gen5 x16) low-profile slots, from CPU_0

- Maximum limitation of GPU card: 285mm (L) x 111.5mm (W) x 39.5mm (H)
- System is validated for population with a uniform GPU model
- Support is not provided for mixed GPU populations
- For the latest GPU cards QVL, please contact your GIGABYTE representative

Internal I/O

1 x TPM header

Front I/O

1 x Power button with LED
1 x ID button with LED
2 x LAN activity LEDs
1 x HDD activity LED
1 x System status LED
1 x Reset button

Rear I/O

2 x USB 3.2 Gen1
1 x VGA
2 x RJ45
1 x MLAN
1 x Power button with LED
1 x ID button with LED
1 x Reset button
1 x NMI button
1 x System status LED

Backplane I/O

Speed and bandwidth:
PCIe Gen5 x4 or SATA 6Gb/s or SAS 12Gb/s

TPM

1 x TPM header with SPI interface
Optional TPM2.0 kit: [CTM010](#)

Power Supply

Dual 3000W (240V) 80 PLUS Titanium redundant power supply

AC Input:

- 100-127V~/ 15.5A, 50-60Hz
- 200-220V~/ 15.5A, 50-60Hz
- 220-240V~/ 15.5A, 50-60Hz

DC Input:

- 240Vdc/ 15.5A

DC Output:

- Max 1000W/ 100-127V~
- + 12.2V/ 81A
- + 12Vsb/ 3A
- Max 2600W/ 200-220V~
- + 12.2V/ 213A
- + 12Vsb/ 3A
- Max 3000W/ 220-240V~ or 240Vdc Input
- + 12.2V/ 245A
- + 12Vsb/ 3A

NOTE: The system power supply requires C19 power cord

System Management

Aspeed® AST2600 management controller
GIGABYTE Management Console (AMI MegaRAC SP-X) web interface

Dashboard

HTML5 KVM
Sensor Monitor (Voltage, RPM, Temperature, CPU Status ...etc.)
Sensor Reading History Data
FRU Information
SEL Log in Linear Storage / Circular Storage Policy
Hardware Inventory
Fan Profile
System Firewall
Power Consumption
Power Control
Advanced power capping
LDAP / AD / RADIUS Support
Backup & Restore Configuration
Remote BIOS/BMC/CPLD Update
Event Log Filter
User Management
Media Redirection Settings
PAM Order Settings
SSL Settings
SMTP Settings

OS Compatibility

Please refer to OS compatibility table in support page

Additional certifications:

[Red Hat Enterprise Linux 9.0 \(x64\)](#) or later
[Windows Server 2022 \(x64\)](#)

Compare

System Fans

8 x 80x80x38mm (18,300rpm)

Clear All

Operating Properties

Operating temperature: 10°C to 35°C
Operating humidity: 8%-80% (non-condensing)
Non-operating temperature: -40°C to 60°C
Non-operating humidity: 20%-95% (non-condensing)

Packaging Dimensions

1133 x 724 x 261 mm

Packaging Content

1 x G293-Z41
2 x CPU heatsinks
1 x L-shape Rail kit

Part Numbers

- Barebone package: 6NG293Z41DR000AAP1*
- Motherboard: 9MZ43G20UR-000
- L-shape Rail kit: 25HB2-A86102-K0R
- CPU heatsink: 25ST1-243105-A0R/25ST1-553202-A0R
- Backplane board - CBPG086: 9CBPG086NR-00
- Fan module: 25ST2-88382R-S1R
- Riser card - CRSG01F: 9CRSG01FNR-00
- Riser card - CRSG821: 9CRSG821NR-00
- Riser card - CRSG822: 9CRSG822NR-00
- Power supply: 25EP0-230005-G1S

Optional parts:

- C19 power cord 125V/15A (US): 25CP1-018000-Q0R
- C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R

* The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice.

* Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.

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* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.

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