

# G292-Z44 (rev. 100) | (rev.A00)

HPC Server - 2U DP 8 x Gen4 GPU Server (Broadcom solution) | Application: AI, AI Training, AI Inference & HPC

- Supports up to 8 x double slot GPU cards
- NVIDIA-Certified system for scalability, functionality, security, and performance
- Dual AMD EPYC™ 7002 series processor family
- 8-Channel RDIMM/LRDIMM DDR4 per processor, total 16 x DIMMs
- 2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2 controller)
- 1 x Dedicated management port
- 8 x 2.5" hot-swappable HDD/SSD bays
- 8 x PCIe Gen4 expansion slots for GPUs
- 2 x PCIe Gen4 x16 half-length low-profile slots for add-on cards
- Aspeed® AST2500 remote management controller
- 2+0 2200W 80 PLUS Platinum power supply



Compare



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## Dimensions (WxHxD, mm)

2U  
448 x 87.5 x 800

## Motherboard

MZ42-G20

## CPU

AMD EPYC™ 7002 series processor family  
Dual processors, 7nm technology  
Up to 64-core, 128 threads per processor  
cTDP up to 240W

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

## Socket

Socket SP3

## Chipset

System on Chip

## Memory

16 x DIMM slots  
DDR4 memory supported only  
8-Channel memory architecture per processor  
RDIMM modules up to 128GB supported  
LRDIMM modules up to 128GB supported  
Memory speed: Up to 3200 MHz

## LAN

2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2 controller)  
1 x 10/100/1000 management LAN

## Video

Integrated in Aspeed® AST2500  
2D Video Graphic Adapter with PCIe bus interface  
1920x1200@60Hz 32bpp, DDR4 SDRAM

## Storage

8 x 2.5" hot-swappable HDD/SSD bays  
- 4 x amber HDD trays compatible with Gen3 U.2 or SATA/SAS devices  
- 4 x blue HDD trays compatible with SATA/SAS devices only

**SAS card is required for SAS devices support**

Recommended 12Gb/s SAS cards:  
[CRA4448](#)  
[CRA4548](#)

## SATA

Supported

## SAS

Supported via add-on SAS Card

## RAID

Depends on RAID HBA

## Peripheral Drives

N/A

## Expansion Slots

8 x PCIe x16 slots (Gen4 x16 bus) for GPUs (Broadcom solution)  
2 x PCIe x16 (Gen4 x16 bus) Half-length low-profile slots

- 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
- Some limitation may apply depends on OS or user application

## 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 3.0  
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

8 x SAS/SATA or 4 x Gen3 U.2 ports and 4 x SAS/SATA  
Backplane P/N: 9CBPG083NR-00  
Bandwidth: SATA 6Gb/s, SAS 12Gb/s and PCIe Gen3 x4

## TPM

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

## Power Supply

2+0 2200W 80 PLUS Platinum power supply

AC Input:  
- 100-127V~/ 14A, 47-63Hz  
- 200-240V~/ 12.6A, 47-63Hz

DC Input:  
- 240Vdc/ 12.6A

DC Output:  
- Max 1200W/ 100-127V~  
+ 12.12V/ 95.6A  
+ 12VsB/ 3.5A  
- Max 2200W/ 200-240V~  
+ 12.12V/ 178.1A  
+ 12VsB/ 3.5A

**NOTE:** The system power supply requires C19 type power cord

## System Management

Aspeed® AST2500 management controller  
GIGABYTE Management Console (AMI MegaRAC SP-X) web interface

Dashboard  
JAVA Based Serial Over LAN  
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  
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

Windows Server 2016 (x2APIC/256T not supported)  
Windows Server 2019

Red Hat Enterprise Linux 7.6 (x64) or later  
Red Hat Enterprise Linux 8.0 (x64) or later  
Red Hat Enterprise Linux 9.0 (x64) or later

SUSE Linux Enterprise Server 12 SP4 (x64) or later  
SUSE Linux Enterprise Server 15 SP1 (x64) or later

Ubuntu 16.04.6 LTS (x64) or later  
Ubuntu 18.04.3 LTS (x64) or later  
Ubuntu 20.04 LTS (x64) or later

VMware ESXi 6.5 EP15 or later  
VMware ESXi 6.7 Update3 or later  
VMware ESXi 7.0 or later  
VMware ESXi 8.0 or later

Citrix Hypervisor 8.1.0 or later

## Weight

Net Weight: 30 kg  
Gross Weight: 36 kg

## System Fans

8 x 80x80x38mm (16,300rpm)

## 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)

**NOTE:** Please contact Technical Support for more information about optimized GPU operating temperature

## Packaging Content

1 x G292-Z44  
2 x CPU heatsinks  
1 x Rail kit