

G482-Z52 (rev. 100) | (rev.A00)

HPC Server - 4U DP 8 x Gen4 GPU Server | Application: AI , AI Training , AI Inference & HPC

- Up to 8 x PCIe Gen4 GPGPU cards
- NVIDIA-Certified system for scalability, functionality, security, and performance
- Dual AMD EPYC™ 7002 series processor family
- 8-Channel RDIMM/LRDIMM DDR4 per processor, 32 x DIMMs
- 2 x 1Gb/s BASE-T LAN ports (Intel® I350-AM2)
- 1 x dedicated management port
- 8 x SATA 2.5" hot-swappable HDD/SSD bays
- 8 x FHFL Gen4 expansion slots for GPU cards
- 1 x low profile PCIe Gen4 x16 expansion slot
- 3 x 80 PLUS Platinum 2200W redundant PSU



OVERVIEW SPECIFICATIONS SUPPORT RESOURCES BUY

G482-Z52 (rev. 100)

Dimensions (WxHxD, mm)

4U
448 x 176 x 880

Motherboard

M252-G40

CPU

AMD EPYC™ 7002 series processor family
Dual processors, 7nm
Up to 64-core, 128 threads per processor
TDP up to 225W, cTDP up to 240W

Fully support 280W

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

Compatible with AMD EPYC™ 7001 series processor family (single processor only)

Socket

Socket SP3

Chipset

System on Chip

Memory

32 x DIMM slots
DDR4 memory supported only
8-Channel memory per processor architecture
RDIMM modules up to 128GB supported
LRDIMM modules up to 128GB supported
Memory speed: Up to 3200*/2933 MHz

- Note:

* Follow BIOS setting and memory QVL list if running 3200 Mhz with 2DPC

LAN

Front Side:
2 x 1Gb/s BASE-T LAN ports (Intel® I350-AM2)
NCSI function supported
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

Audio

N/A

Storage

8 x 2.5" SATA hot-swappable HDD/SSD bays

NOTE: SATA devices supported only

SAS

N/A

RAID

N/A

Peripheral Drives

N/A

Expansion Slots

8 x PCIe x16 slots (Gen4 x16 bus) for GPUs
1 x low profile PCIe Gen4 x16 expansion slot on rear side#

Non-supported SAS Card with internal cable due to cable routing limitation

- System is validated for population with a uniform GPU model
- Support is not provided for mixed GPU populations
- Limited to PCIe Gen3 when using AMD Naples

Internal I/O

1 x TPM header
1 x Front panel header

Front 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
1 x HDD access LED

Rear I/O

N/A

Backplane I/O

8 x 2.5" ports
Supports SATA 6Gb/s

TPM

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

Power Supply

3 x 2200W redundant PSUs
80 PLUS Platinum

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

System Fans

12 x 60x60x38mm (21,700rpm)

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

1109 x 609 x 606 mm

Packaging Content

1 x G482-Z52
2 x CPU fan-sinks
1 x Rail kit