

# G492-H80 (rev. 100)

HPC Server - Intel DP 4U 8 x GPU Dual Root Server | Application: AI, AI Training, AI Inference, Visual Computing & HPC

- Up to 8 x PCIe Gen4 GPGPU cards
- NVIDIA-Certified system for scalability, functionality, security, and performance
- 3rd Gen. Intel® Xeon® Scalable Processors
- 8-Channel RDIMM/LRDIMM DDR4 per processor, 32 x DIMMs
- Supports Intel® Optane™ Persistent Memory 200 series
- Dual ROM Architecture supported
- Intel® C621A Chipset
- 2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2)
- 1 x dedicated management port
- 12 x 3.5" or 2.5" SATA hot-swappable HDD/SSD bays
- 2 x SATA DOM supported
- 3 x 80 PLUS Platinum 2200W (240V) redundant PSU



OVERVIEW SPECIFICATIONS SUPPORT RESOURCES BUY

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## Dimensions (WxHxD, mm)

4U  
447 x 175.2 x 880

## Motherboard

MG62-G41

## CPU

3rd Generation Intel® Xeon® Scalable Processors  
Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor,  
Intel® Xeon® Silver Processor  
10nm technology, CPU TDP up to 270W

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

## Socket

2 x LGA 4189  
Socket P+

## Chipset

Intel® C621A Chipset

## Memory

32 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  
3DS RDIMM/LRDIMM modules up to 256GB supported  
1.2V modules: 3200/2933/2666 MHz

## LAN

2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2)  
NCSI function supported  
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

## Audio

N/A

## Storage

12 x 3.5" or 2.5" SATA hot-swappable HDD/SSD bays  
SATA device supported only  
Onboard 2 x SATA DOM supported

## SAS

N/A

## RAID

Intel® SATA RAID 0, 1, 10, 5

## Peripheral Drives

N/A

## Expansion Slots

8 x PCIe x16 slots (Gen4 x16 bus) for GPUs

- System is validated for population with a uniform GPU model  
- Support is not provided for mixed GPU populations

## Internal I/O

1 x TPM header  
1 x VROC connector  
2 x SATA DOM connectors  
1 x Front VGA header  
1 x Serial 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

12 x 3.5" or 2.5" SATA ports  
Bandwidth: SATA 6Gb/s per port

## 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® 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  
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  
Windows Server 2019  
Windows Server 2022

Red Hat Enterprise Linux 7.9 (x64) or later  
Red Hat Enterprise Linux 8.2 (x64) or later  
Red Hat Enterprise Linux 9.0 (x64) or later

SUSE Linux Enterprise Server 12 SP5 (x64) or later  
SUSE Linux Enterprise Server 15 SP2 (x64) or later

Ubuntu 20.04 LTS (x64) or later  
Ubuntu 22.04 LTS (x64) or later

VMware ESXi 6.7 Update3 P03 or later  
[VMware ESXi 7.0 Update2 or later](#)  
VMware ESXi 8.0 or later

Citrix Hypervisor 8.2.0 or later

## System Fans

6 x 60x60x76mm (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 G492-H80  
2 x CPU heatsinks  
1 x Rail kit