GPU401

Intel DP 4U 8 x GPU Dual Root Server

- 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 Express 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

SPECIFICATIONS

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 Express 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

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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

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 8.2 (x64) or later
Red Hat Enterprise Linux 8.3 (x64) or later
Red Hat Enterprise Linux 9 (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
VMware ESXi 7.0 Update2
VMware ESXi 7.0 Update3

Citrix Hypervisor 8.2.0

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 GPU401
2 x CPU heatsinks
1 x Rail kit