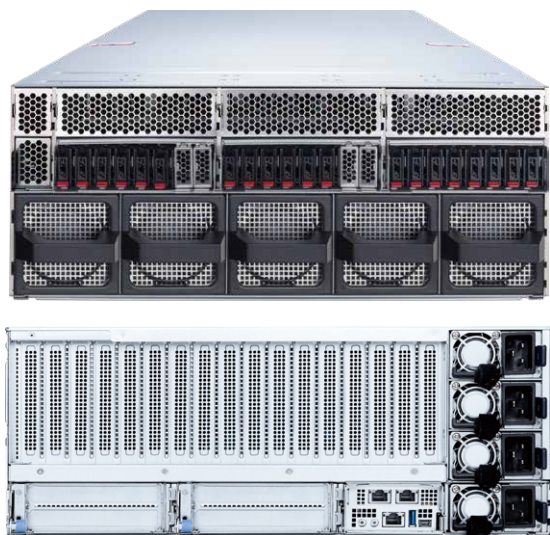




CG480-S5063

NVIDIA MGX™ 4U GPU Server Platform



SPECIFICATIONS

Dimensions (Width x Height x Depth)

438.5mm (17.2") Wx 175mm (6.88") Hx 800mm (31.4") D

Processor

Dual Intel® Xeon® 6700E-series, 6500P-series and 6700P-series processors, TDP up to 350W

Memory

(32) DDR5 DIMM slots, 8 channels per CPU (2DPC), RDIMM/RDIMM-3DS/MRDIMM

- Max. Frequency:

RDIMM:

6500P/6700P series: 6400 MT/s (1DPC), 6000 MT/s (2DPC)

6700E series: 6400 MT/s (1DPC), 5200 MT/s (2DPC)

MRDIMM: 8000MT/s (only support 1DPC)

- Max. Capacity per DIMM: 256GB (RDIMM), 64GB (MRDIMM)

*MRDIMMs are only supported with Intel® Xeon® 6 P-core series processors

Expansion Slots

(8) PCIe 5.0 x16 FHFL double wide slots (through PCIe switch)

(4) PCIe 5.0 x16 FHFL single wide slots (through PCIe switch)

(1) PCIe 5.0 x16 FHFL single wide slot (from CPU0)

Networking

(2) 10GBase-T Ethernet ports with Intel® X710-AT2 (NCSI supported)

Storage

(20) Front hot-swap E1.S PCIe 5.0 x4 NVMe drive bays

(10 from CPU0, 10 from CPU1)

(2) 2280/22110 PCIe 5.0 x2 NVMe M.2 ports (CPU0)

RAID

NVMe RAID 0/1/5/10 support

(Intel® VROC RAID key required)

4U AI Server with NVIDIA MGX™ Accelerated Architecture with Intel® Xeon® 6

The CG480-S5063 Series GPU Server is engineered for high-performance computing and AI workloads, featuring a switching GPU topology that supports up to eight dual-slot GPU accelerators within a 4U rackmount chassis. Powered by dual Intel® Xeon® 6500/6700 series processors, the system is based on the NVIDIA MGX™ modular architecture, enabling flexible integration of GPUs, CPUs, and DPUs. This modular design allows for optimized system configurations tailored to diverse enterprise data center applications, including AI training, inference, and data analytics.

Applications

Training, Fine Tuning

LLM Inference

NVIDIA Omniverse™

Server Management

(1) 1000Base-T Dedicated Server Management port

ASPEED AST2600 with AMI MegaRAC based firmware supporting IPMI 2.0 and DMTF Redfish API

Dual BIOS and dual BMC

eMMC for local BMC storage media

Security

Chassis Intrusion

On-board TPM2.0

Hardware Root of Trust - Microchip CEC1736 supported (optional)

Front I/O

(20) Hot-swap E1.S drive bays

Rear I/O

(1) 1000Base-T Dedicated Server Management port

(2) 10GBase-T Ethernet ports

(1) USB 3.0/2.0 Type-A port

(1) Mini Display port

(1) Power LED button

(1) UID LED button

Power Supply

(3+1) Redundant 3200W CRPS 80 PLUS Titanium

Cooling

(2) Air cooling modules for max. 350W CPU

(10) 8080 Hot-swap System Fans

Environmental

System Operating Temperature: 0°C ~ 35°C (50°F ~ 95°F)

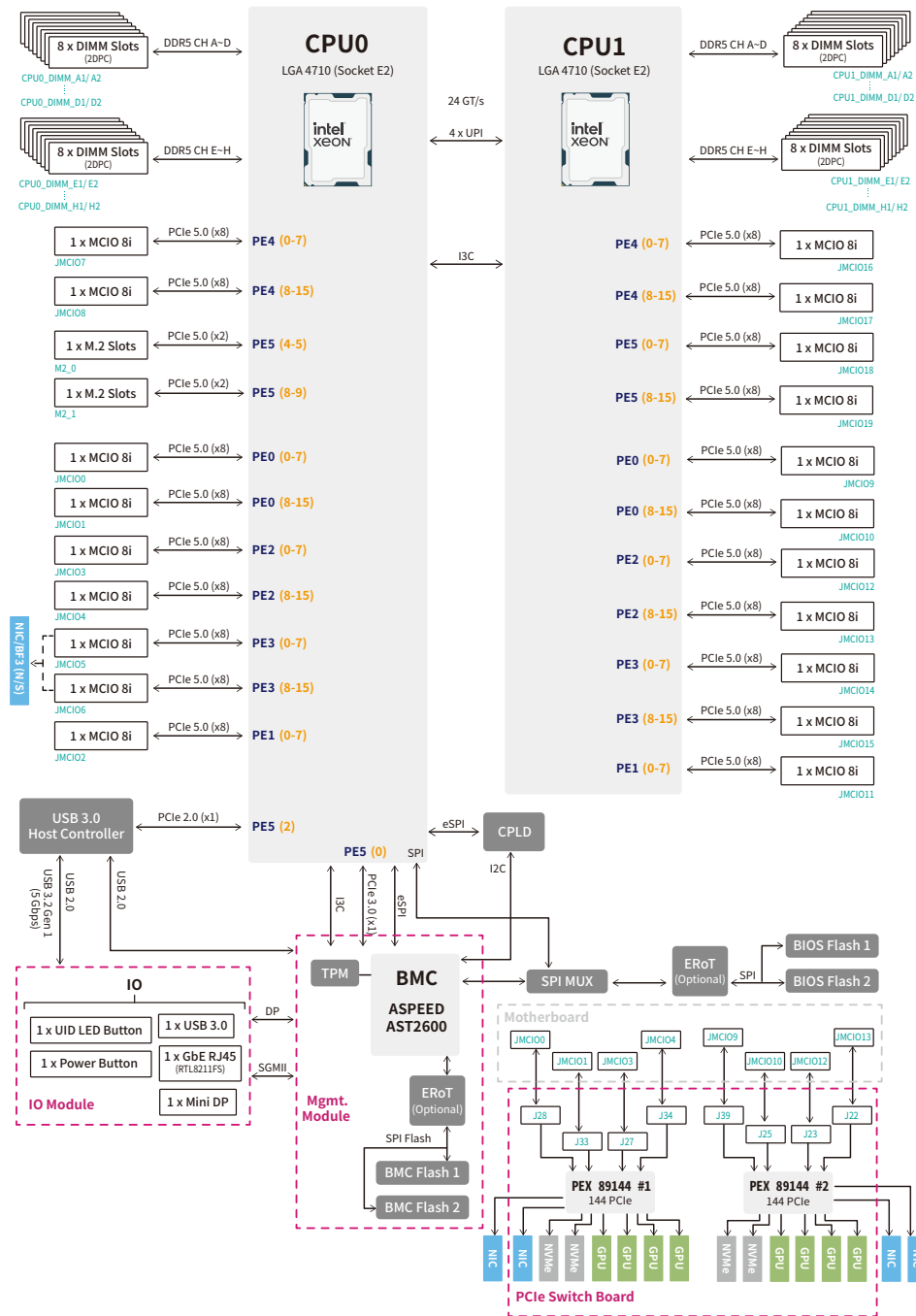
Non-operating Temperature: -20°C ~ 70°C (-4°F to 158°F)

Non-operating Relative Humidity: 5% to 85% (non-condensing)

Regulatory

FCC (Class A), CE

CG480-S5063 System Block Diagram



Top View



Learn more about
MSI servers, visit
<https://eps.msi.com>

Specifications are subject to change
without notice. Please visit our website
for the latest information.



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