



UQLEAD K03-4220

AI/HPC Server

Intel® Xeon® 6 – 4U DP 8 x PCIe Gen5 GPUs



Key Features

- Supports up to 8 x dual-slot Gen5 GPUs
- Conditional support:
8 x NVIDIA H200 NVL PCIe GPUs with 4-way NVLink™ bridges or
8 x NVIDIA RTX™ PRO 6000 Blackwell Server Edition GPUs
- Dual Intel® Xeon® 6700/6500 Series processors
- 32 x DIMMs, 8-channels DDR5 RDIMM / MRDIMM
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 12 x 2.5" Gen5 NVMe / SATA / SAS-4 hot-swap bays
- 8 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x FHFL PCIe Gen5 x16 slots
- 3 x LP PCIe Gen5 x16 slots
- 2 x FHFL PCIe Gen5 x16 slots on the front
- Quad 3000W 80 PLUS Titanium redundant power supply

AI training

AI inference

Visual & high-performance computing

Specifications

Dimensions 4U (W448 x H176 x D880 mm)
4U (W448 x H176 x D1000.5 mm) with optional fan kit

CPU Intel® Xeon® 6 processors:

- Intel® Xeon® 6700 Series processors
- Intel® Xeon® 6500 Series processors

Dual processors, TDP up to 350W

OS compatibility Windows Server, Red Hat Enterprise Linux Server, VMware ESXi, SUSE Linux Enterprise, Ubuntu Server, Citrix Hypervisor

Chipset System on Chip

Memory 32 x DIMMs, 8-channel DDR5 RDIMM/MRDIMM
For RDIMM: up to 6400 MT/s (1DPC), 5200 MT/s (2DPC)
For MRDIMM: up to 8000 MT/s*
*MRDIMMs are supported only on select Intel® Xeon® 6 processors with P-cores and only in a 1DPC configuration

LAN 2 x 10Gb/s LAN ports (1 x Intel® X710-AT2) - NCSI
1 x 10/100/1000 Management LAN

Video Integrated in ASPEED® AST2600:

- 1 x VGA port

Storage **Front hot-swap:**
12 x 2.5" Gen5 NVMe / SATA / SAS-4*
*SAS card is required to support SAS drives.

RAID Requires RAID add-in cards
Onboard VROC key headers

Security modules TPM 2.0

I/O ports **Front:** 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN

Rear:
8 x FHFL PCIe Gen5 x16 for GPUs
2 x FHFL PCIe Gen5 x16
3 x LP PCIe Gen5 x16

Front:
2 x FHFL PCIe Gen5 x16
PCIe expansion slots *The system supports up to 8 x 600W GPUs with an **optional fan kit**. GPU video output ports are not available.
*The system supports 8 x **NVIDIA H200 NVL** PCIe GPUs at 25°C ambient, arranged as two 4-GPU sets, each with a 4-way NVLink bridge.
*The system supports 8 x **RTX™ PRO 6000 Blackwell Server Edition** GPUs at 25°C ambient.

Backplane board PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s

Power supply Quad 3000W 80 PLUS Titanium redundant power supply
AC Input: 100-240V
*The system power supply requires C19 power cord

System management ASPEED® AST2600 Baseboard Management Controller
KERNO Management Console (AMI MegaRAC SP-X)

System fans 2 x 40x40x28 mm
12 x 60x60x56 mm

Operating properties Operating: 10°C to 35°C, 8% to 80% (non-condensing)
Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)

Packaging content 1 x 4U chassis
1 x L-shape rail kit
4 x C19 power cord
Optional: 8080 fan kit for 600W GPUs

Warranty 3- to 5-year limited warranty