



UQLEAD K03-82A0 Ultra



AI/HPC Server

AMD EPYC™ 9005/9004 – 8U DP NVIDIA HGX™ B300



Key Features

- NVIDIA HGX™ B300
- 8 x 800 Gb/s OSFP InfiniBand XDR or dual 400 Gb/s Ethernet GPU networking ports via onboard NVIDIA ConnectX®-8 SuperNIC™
- 1.8TB/s GPU-to-GPU bandwidth with NVIDIA NVLink™
- Dual AMD EPYC™ 9005/9004 Series processors
- 24 x DIMMs, 12-channel DDR5 RDIMM
- Compatible with NVIDIA BlueField®-3 DPUs
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 PCIe Gen3 x4 and x1
- 8 x 2.5" Gen5 NVMe hot-swap bays
- 4 x FHHL PCIe Gen5 x16 slots
- 12 x 3000W 80 PLUS Titanium redundant power supplies

AI platform

AI training server

AI inference server

High-performance computing server

Specifications

Dimensions 8U (W447 x H351 x D923 mm)

CPU AMD EPYC™ 9005 Series processors
AMD EPYC™ 9004 Series processors
Dual processor, cTDP up to 500W

OS compatibility Visit our website for a list of compatible operating systems

Socket 2 x LGA 6096 (Socket SP5)

Chipset System on Chip

Memory 24 x DIMMs, 12-channel DDR5 RDIMM
For AMD EPYC™ 9005: up to 6400 MT/s
For AMD EPYC™ 9004: up to 4800 MT/s

LAN **Front:**
2 x 10Gb/s LAN (1x Intel® X710-AT2) NCSI support
1 x 10/100/1000 Mbps Management LAN
Rear:
8 x 800 Gb/s OSFP InfiniBand XDR or dual 400 Gb/s Ethernet, for GPU networking
1 x 10/100/1000 Mbps Management LAN

Video Integrated in ASPEED® AST2600:
• 1 x VGA port

Storage **Front hot-swap:**
8 x 2.5" Gen5 NVMe
Internal M.2:
1 x M.2 (2280/22110), PCIe Gen3 x4
1 x M.2 (2280/22110), PCIe Gen3 x1

Modular GPU NVIDIA HGX™ B300 with 8 x SXM GPUs

PCIe expansion slots 4 x FHHL PCIe Gen5 x16

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

Security modules TPM 2.0

Backplane board PCIe Gen5 x4

Power supply 12 x 3000W 80 PLUS Titanium redundant power supplies
AC Input: 115-240V
*The system power supply requires C19 power cord.

System management ASPEED® AST2600 Baseboard Management Controller
KERNO Management Console web interface

System fans **Motherboard:** 2 x 60x60x56 mm / 4 x 60x60x76 mm
OSFP ports: 4 x 40x40x56 mm
PCIe slots: 2 x 80x80x56 mm
GPU tray: 15 x 80x80x80 mm

Operating properties Operating temperature: 10°C to 30°C
Non-operating temperature: -40°C to 60°C
Operating relative humidity: 8% to 80% (non-condensing)
Non-operating relative humidity: 20% to 95% (non-condensing)

Packaging content 1 x 8U chassis
1 x L-shape rail kit

Warranty 3- to 5-year limited warranty