

UQLEAD K03-42A0

HPC/AI Server - 4U DP 8 x PCIe Gen5 GPUs



Specification

Dimensions	4U (W448 x H176 x D880 mm)
CPU	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Dual processor, cTDP up to 400W - At 25°C ambient, cTDP up to 500W
OS Compatibility	Visit our website for the list of compatible OS
Socket	2 x LGA 6096 (Socket SP5)
Chipset	System on Chip
Memory	12-Channel DDR5 RDIMM, 48 x DIMMs [EPYC 9005] Up to 5200 MT/s (1DPC), 4400 MT/s (1R 2DPC), 4000 MT/s (2R 2DPC) [EPYC 9004] Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC)
LAN	2 x 1Gb/s LAN (1 x Intel® I350-AM2) - Support NCSI 1 x 10/100/1000 Mbps 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. Internal M.2: 2 x M.2 (2280/22110), PCIe Gen3 x4
RAID	Require RAID add-in cards

Key Features

- Supports up to 8 x Dual slot Gen5 GPUs
- Dual AMD EPYC™ 9004 Series Processors
- 2-Channel DDR5 RDIMM, 48 x DIMMs
- Dual ROM Architecture
- 2 x 1Gb/s LAN ports via Intel® I350-AM2
- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 2 x M.2 slots with PCIe Gen3 x4 interface
- 8 x FHFL PCIe Gen5 x16 slots for GPUs
- 8 x LP PCIe Gen5 x16 slots
- 2 x LP PCIe Gen5 x16 slots on the front side
- 3+1 3000W 80 PLUS Titanium redundant power supplies

Applications

AI Training, AI Inference, Visual & High-Performance Computing

Expansion Slots	8 x FHFL PCIe Gen5 x16 slots for GPUs (with PCIe switches) 8 x LP PCIe Gen5 x16 slots on the rear side (with PCIe switches) 2 x LP PCIe Gen5 x16 slots on the front side *The system is validated for use with a single GPU model
I/O Ports	Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
Security Modules	1 x TPM header with SPI interface (Optional TPM2.0)
Power Supply	3+1 3000W 80 PLUS Titanium redundant power supplies AC Input: 100-240V *The system power supply requires C19 power cord
System Management	ASPEED® AST2600 Baseboard Management Controller KERNO Management Console web interface
System Fans	12 x 60x60x38mm (23,000rpm)
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 Content	1 x 4U Chassis 2 x CPU Fansinks 8 x GPU Power cables 1 x L-shape Rail kit

Learn more at: <https://kernoenterprises.com>
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