



UQLEAD K03-8220 Ultra



AI/HPC Server

Intel® Xeon® 6 – 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™ and NVSwitch™
- Dual Intel® Xeon® 6700/6500 Series processors
- 32 x DIMMs, 8-channel DDR5 RDIMM/MRDIMM
- Compatible with NVIDIA® BlueField®-3 DPUs
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen5 x4 and x2 interface
- 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)	Modular GPU	NVIDIA HGX™ B300 with 8 x SXM GPUs
CPU	Intel® Xeon® 6 processors: <ul style="list-style-type: none"> • Intel® Xeon® 6700 Series processors • Intel® Xeon® 6500 Series processors Dual processors, TDP up to 350W	PCIe expansion slots	4 x FHHL PCIe Gen5 x16
OS compatibility	Visit our website for a list of compatible operating systems	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
Socket	2 x LGA 4710 (Socket E2)	Security modules	TPM 2.0
Chipset	System on Chip	Backplane board	PCIe Gen5 x4
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.	Power supply	12 x 3000W 80 PLUS Titanium redundant power supplies AC Input: 220-240V *The system power supply requires C19 power cord.
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	System management	ASPEED® AST2600 Baseboard Management Controller KERNO Management Console web interface
Video	Integrated in ASPEED® AST2600: <ul style="list-style-type: none"> • 1 x VGA port 	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
Storage	Front hot-swap: 8 x 2.5" Gen5 NVMe Internal M.2: 1 x M.2 (2280/22110), PCIe Gen5 x4 1 x M.2 (2280/22110), PCIe Gen5 x2	Operating properties	Operating: 10°C to 30°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
		Packaging content	1 x 8U chassis 1 x L-shape rail kit
		Warranty	3- to 5-year limited warranty

Learn more at www.kerno.ae. All specifications are subject to change without notice. Please visit our website for the latest information.

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