

AceleMax® AXG-828UI

8U DP Intel® Xeon® 6 CPU 8x NVIDIA HGX™ B300 GPU server



Features

- NVIDIA HGX™ B300
- 8 x 800 Gb/s OSFP GPU networking ports supporting InfiniBand XDR or dual 400 Gb/s Ethernet via onboard NVIDIA ConnectX®-8 SuperNIC™
- 1.8 TB/s GPU-to-GPU bandwidth with NVIDIA NVLink™ and NVLink™ Switch
- Dual® Intel® Xeon 6700/6500-Series Processor
- 8-Channel DDR5 RDIMM/MRDIMM per CPU with 32 x DIMMs
- Compatible with NVIDIA BlueField®-3 DPU
- 2 x 10 Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen5 x4 and x2
- 8 x 2.5" Gen5 NVMe hot-swap bays
- 4 x FHHL PCIe x16 slots with Gen5 x16 lanes
- 12 x 3000W 80 PLUS Titanium redundant power supplies

Applications

- AI
- AI training
- AI inference
- High-performance computing

Specifications

Dimensions	447mm x 351mm x 923mm (8U) 17.6" x 13.8" x 36.3"
Processor Support	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
Socket	2 x LGA 4710 (Socket E2)
Core Logic	System on Chip
GPU	NVIDIA HGX™ B300 with 8 x SXM GPUs
Memory	32 x DDR5 DIMMs, 8-Channel DDR5 RDIMM/MRDIMM per CPU [RDIMM] Up to 6400 MT/s (1DPC), 6000 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s Note: MRDIMMs are supported only on select Intel Xeon 6 processors with P-cores and only in a 1DPC configuration.
Expansion Slots	4 x FHHL x16 (Gen5 x16)
Storage	Front hot-swap: <ul style="list-style-type: none"> • 8 x 2.5" Gen5 NVMe Internal M.2: <ul style="list-style-type: none"> • 1 x M.2 (2280/22110), PCIe Gen5 x4 • 1 x M.2 (2280/22110), PCIe Gen5 x2

Specifications	
Networking	8 x 800 Gb/s OSFP supporting InfiniBand XDR or dual 400 Gb/s Ethernet, for GPU networking, via NVIDIA ConnectX [®] -8 SuperNIC 2 x 10 Gb/s LAN (1 x Intel [®] X710-AT2), Supports NCSI
Graphics	Integrated in ASPEED AST2600
I/O Ports	<p>Front:</p> <ul style="list-style-type: none"> • 2 x USB 3.2 Gen1 • 1 x VGA • 2 x RJ45 • 1 x MLAN (default) • 1 x Power button with LED • 1 x ID button with LED • 1 x NMI button • 1 x Reset button • 1 x Storage activity LED • 1 x System status LED <p>Rear:</p> <ul style="list-style-type: none"> • 8 x OSFP • 1 x MLAN
Power Supply	12 x 3000W 80 PLUS Titanium redundant power supplies
Cooling	<p>Motherboard:</p> <ul style="list-style-type: none"> • 2 x 60x60x56mm System Fans • 4 x 60x60x76mm System Fans <p>OSFP ports: 4 x 40x40x56mm System Fans PCIe slots: 2 x 80x80x56mm System Fans GPU tray: 15 x 80x80x80mm System Fans</p>
Operating Environment	<p>Operating temperature: 10°C to 30°C Operating humidity: 8% to 80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20% to 95% (non-condensing)</p>

