

AceleMax® AXG-GBU1B

AI Workstation - NVIDIA GB300 Grace Blackwell Ultra Desktop Superchip



Features

- Tower (NVIDIA DGX Station™)
- Single NVIDIA Grace™ CPU Superchip with 72 Arm® Neoverse V2 cores
- Single NVIDIA Blackwell Ultra GPU
- 748 GB of Coherent Memory
- 2 x 2280 PCIe 5.0 x4 NVMe M.2 ports (Filled with a 2TB RAID1, connected to the CPU)
- 2 x 2280 PCIe 6.0 x4 NVMe M.2 ports (Open and available for expansion, connected to the CX8)
- Ubuntu 24.04 LTS with NVIDIA AI Developer Tools pre-installed
- 3 x PCIe 5.0 expansion slots
- 2 x 400G QSFP112 ports with NVIDIA ConnectX®-8 SuperNICs
- 1 x 1000Base-T Dedicated Server Management Port
- ASPEED AST2600 with IPMI 2.0 & DMTF Redfish Support

Applications

- AI development
- AI inference
- Data science
- Personal cloud

Specifications

Dimensions	247.8mm x 527.9mm x 582.7mm (Tower) 9.8" x 20.8" x 22.9"
Superchip	Single NVIDIA Grace™ CPU Superchip with 72 Arm® Neoverse V2 cores Single NVIDIA Blackwell Ultra GPU
Memory	Up to 748 GB of Coherent Memory • CPU Memory Up to 496GB LPDDR5X 396 GB/s • GPU Memory Up to 252GB HBM3e 7.1 TB/s
Expansion Slots	1 x FHFL x16 (Gen5 x16) double wide slot 2 x FHFL x16 (Gen5 x16) single wide slots with x8 signals 1 x PCIe 2.0 x1 2230 M.2 for WiFi/BT
Storage	Four total M.2 ports: • 2 x 2280 PCIe 5.0 x4 NVMe M.2 ports (Filled with boot drives, connected to the CPU) • 2 x 2280 PCIe 6.0 x4 NVMe M.2 ports (Open and available for expansion, connected to the CX8) M.2 heatsinks included for all four M.2 ports: • 2 x 2TB NVMe M.2 SSDs included, installed in the CPU ports & configured in RAID 1 for OS Ubuntu 24.04 LTS with NVIDIA AI Developer Tools pre-installed on the boot drives
Networking	2 x QSFP112 ports with NVIDIA ConnectX®-8 SuperNICs 1 x 10GBase-T Ethernet port with Marvell AQC113

Specifications

I/O Ports	Front: • 1 x Power Button • 1 x Reset Button • 1 x HDD LED • 1 x 2-way Audio • 2 x USB Type C • 2 x USB 3.0 Type A Rear: • 1 x 1000Base-T Dedicated Server Management • 2 x QSFP112 • 1 x 10GBase-T Ethernet • 4 x USB 3.1 Type A • 1 x Mini DP • 1 x 2 channel audio • 1 x Micro USB COM
Management Solution	1 x 1000Base-T Dedicated Server Management Port ASPEED AST2600 with AMI MegaRAC based firmware supporting IPMI 2.0 and DMTF Redfish API eMMC for local BMC storage media
Power Supply	1 x 1600W ATX 80 PLUS Titanium power supplies
Cooling	1 x Liquid cooling module for max. 1400W CPU+GPU 1 x 12025 System Fan
Operating Environment	Operating temperature: 10°C ~ 30°C Operating humidity: 10% to 80% (non-condensing) Non-operating temperature: 5°C ~ 40°C Non-operating relative humidity: 10% to 80% (non-condensing)

