

AceleMax® AXG-GBU1A

Deskside AI Supercomputer - NVIDIA GB300 Grace™ Blackwell Ultra Desktop Superchip



Features

- Closed-loop liquid cooling solution
- 1 x NVIDIA Blackwell Ultra GPU
- 1 x NVIDIA Grace-72 Core Neoverse V2 CPU
- 252 GB HBM3E GPU memory with 7.1 TB/s total bandwidth
- 496 GB LPDDR5X CPU memory with up to 396 GB/s bandwidth
- 2 x 400 Gb/s QSFP ports via NVIDIA ConnectX®-8 SuperNIC™
- 1 x 10 Gb/s LAN port via Marvell AQC113
- 2 x M.2 PCIe Gen6 x4
- 2 x M.2 PCIe Gen5 x4
- 1 x PCIe x16 slot with Gen5 x16 lanes for GPUs
- 2 x PCIe x16 slots with Gen5 x8 lanes
- 1 x 1600W ATX 80 PLUS Platinum power supply

Applications

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

Specifications

Dimensions	245mm x 500.4mm x 531mm (Pedestal) 9.6" x 19.7" x 21"
Superchip	NVIDIA GB300 Grace™ Blackwell Ultra Desktop Superchip • 1 x NVIDIA Grace™ CPU • 1 x NVIDIA Blackwell Ultra GPU • Connected with NVIDIA NVLink™-C2C
Memory	NVIDIA Grace™ CPU: • 496 GB of LPDDR5X memory with ECC • 396 GB/s memory bandwidth NVIDIA Blackwell Ultra GPU • 252 GB HBM3E • 7.1 TB/s memory bandwidth
Expansion Slots	PCIe x16 (Gen5 x16), for GPUs PCIe x16 (Gen5 x8) PCIe x16 (Gen5 x8) 1 x M.2 (2230), E-key (Wi-Fi), Gen2 x1, from ConnectX-8
Storage	Internal M.2: • 2 x M.2 (2280), PCIe Gen5 x4, from CPU • 2 x M.2 (2280), PCIe Gen6 x4, from ConnectX®-8
Networking	2 x 400 Gb/s QSFP (1 x NVIDIA ConnectX®-8 SuperNIC™) 1 x 10 Gb/s LAN (1 x Marvell AQC113)

Specifications	
Graphics	Integrated in onboard BMC • 1 x Mini-DP Optional GPUs: • NVIDIA RTX PRO 6000 Blackwell Workstation Edition • NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition • NVIDIA RTX PRO 4000 Blackwell SFF Edition • NVIDIA RTX PRO 2000 Blackwell
I/O Ports	Front: • 1 x USB 3.2 Gen2 (Type-C) (5 V Output) • 2 x USB 3.2 Gen1 (Type-A) • 2 x Audio jacks (Audio out/Mic) • 1 x Power button with LED • 1 x Reset button with storage activity LED Rear: • 4 x USB 3.2 Gen2 (Type-A) • 1 x Micro USB (USB-to-UART) • 1 x Mini-DP • 2 x QSFP • 1 x RJ45 • 1 x MLAN • 2 x Wi-Fi antenna • 3 x Audio jacks (Audio in/Audio out/Mic)
Audio	Realtek® ALC4080 Audio Codec Front: 2 x Audio jacks (Audio out/Mic) Rear: 3 x Audio jacks (Audio in/Audio out/Mic)
Power Supply	1 x 1600W ATX 80 PLUS Platinum power supply
Cooling	3 x 120x120x25mm System Fans
Operating Environment	Operating temperature: 10°C to 35°C Operating humidity: 8% to 80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20% to 95% (non-condensing)