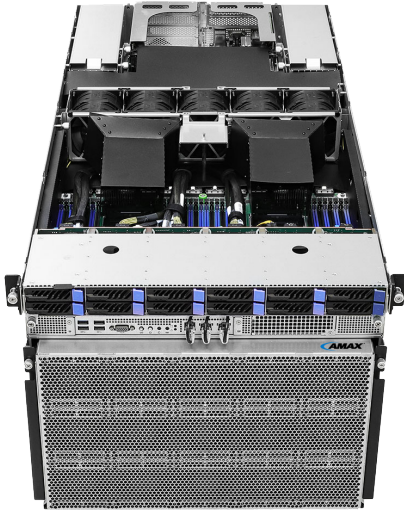# AceleMax® AXG-828IS2

8U Dual Socket Intel Xeon 6 Processors 8x NVIDIA HGX B200 GPU Server

Features

- 8U Rackmount with 6+6, 80-PLUS Titanium, 3000W CRPS
- NVIDIA HGX B200 8-GPU with NVIDIA NVSwitch™
- Optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage by PCIe Switch Synthetic Mode
- Dual Socket E2 (LGA 4710), supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
- 16+16 DIMM slots (2DPC), supports DDR5 RDIMM, RDIMM-3DS
- 8 HHHL PCIe5.0 x16, 2 FHHL PCIe5.0 x16
- 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch
- 2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU
- Supports 1 M.2 (PCIe5.0 x4)
- 2 RJ45 (1GbE) by Intel® i350-AM2

Applications

- High Performance Computing
- Generative AI
- Deep Learning / Machine Learning
- Data Analysis
- Scientific Research
- AI Inferencing

Specifications	
Form Factor	• 8U Rackmount

Front Panel	• Buttons: Power button w/ LED, Reset button, NMI button, UID button
	• LEDs: System fault LED, HDD activity LED
	• I/O Ports:
	  - 2 RJ45 (1GbE) by Intel i350, shares with Rear IO
	  - 1 dedicated IPMI, shares with Rear IO
	  - 4 Type-A (USB3.2 Gen1)
	  - 1 DB15 (VGA)

External Drive Bay / Storage	• Front Side Drive Bay:
	  - 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch
	  - 2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU
	• Internal Side: 1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]

Power Supply	• Type: 6+6 CRPS • Output Watts: 3002.4W @ 220-240Vac input, 2900W @200-220Vac input • Efficiency: 80-PLUS Titanium • AC Input: 200-240Vrms, 50/60Hz
System Fan	• 29 PWM 80x80 mm fans + 4 PWM 40x40 mm fans
GPU	• NVIDIA® HGX B200 8-GPU with NVIDIA® NVSwitch™
CPU	• Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series Processors
Socket	• 1+1 Socket E2 (LGA 4710)
Chipset	• System on Chip
System Memory	• Supported DIMM Quantity: 16+16 DIMM slots (2DPC) • Supported Type: Supports DDR5 RDIMM • Max. Capacity per DIMM: RDIMM: 128GB • Max. DIMM Frequency: RDIMM: 6400MT/s (1DPC), 5200MT/s (2DPC) • Voltage: 1.1V

Specifications	
PCIe Expansion Slots	• PCIe x 16 Rear: • 8 HHHL PCIe5.0 x16 • 2 FHHL PCIe5.0 x16
Ethernet	• Additional GbE Controller: Intel® i350: 2 RJ45 (1GbE)
Server Management	• BMC Controller: ASPEED AST2600: IPMI2.0 with iKVM and vMedia support • IPMI Dedicated GLAN: 1 Realtek RTL8211F for dedicated management GLAN
Graphics	• Controller: ASPEED AST2600 • VRAM: DDR4 512MB
Rear I/O	• UID Button/LED: 1 UID button • VGA Port: 1 DB15 (VGA) • USB 3.2 Gen1 Port: 2 Type-A (USB3.2 Gen1) • RJ45: 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel, 1 dedicated IPMI, shares with Front Panel
System BIOS	• BIOS Type: AMI UEFI BIOS; 512Mb SPI Flash ROM • BIOS Features: Plug and Play, ACPI 4.0 and above compliance wake up events, SMBIOS 3.4 and above, AMAX Rack instant flash

Hardware Monitor	• Temperature: CPU, MB, Card side Temperature Sensing
	• Fan:
	  - Fan Tachometer
	  - CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)Fan Multi-Speed Control

Environment	• Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C • Non operation humidity: 20% ~ 90% (Non condensing)
Dimensions	• 930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")