AceleMax® AXG-828AS

8U Dual Socket AMD EPYC™ 9004/9005 Series Processors Server with 8x NVIDIA H100/H200 SXM5 GPUs

Features

- High density 8U system for NVIDIA® HGX™ H100/H200 8-GPU, Highest GPU communication using NVIDIA® NVLINK™ + NVIDIA® NVSwitch™, 8 NIC for GPU direct RDMA (1:1 GPU Ratio)
- 24 DIMM slots DDR5; up to 6TB 4800MT/s ECC LRDIMM/RDIMM
- Up to 8 PCIe 5.0 x16 LP + 4 PCIe 5.0 x16 FHFL slots
- Flexible networking options
- 12 Hot-swap 2.5” NVMe drive bays + 2 hot-swap 2.5” SATA drive bays, + 4 hot-swap 2.5” NVMe drive bays (optional), 1 M.2 NVMe for boot drive only

Applications

- High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Climate and Weather Modeling

Specifications	
Form Factor	• 8U Rackmount • Enclosure: 437 x 355.6 x 843.28mm (17.2” x 14” x 33.2”) • Package: 698 x 750 x 1300mm (27.5” x 29.5” x 51.2”)
Processor	• Dual processor(s) • AMD EPYC™ 9004/9005 Series Processors (* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x) • Up to 128C/256T
GPU	• Max GPU Count: Up to 8 onboard GPUs • Supported GPU: NVIDIA SXM: HGX H100 8-GPU (80GB), HGX H200 8-GPU (141GB) • CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect • GPU-GPU Interconnect: NVIDIA® NVLink® with NVSwitch™
System Memory	• Slot Count: 24 DIMM slots • Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 18 bays • 2 front hot-swap 2.5” SATA drive bays • 4 front hot-swap 2.5” NVMe* drive bays • 12 front hot-swap 2.5” NVMe drive bays (*NVMe support may require additional storage controller and/or cables) • M.2: 1 M.2 NVMe slot (M-key)
Expansion Slots	Default • 8 PCIe 5.0 x16 LP slots • 2 PCIe 5.0 x16 FHFL slots Option A • 8 PCIe 5.0 x16 LP slots • 4 PCIe 5.0 x16 FHFL slots
On-Board Devices	• AMD SP5
Input / Output	• 1 VGA port

Specifications	
System Cooling	• Fans: 10 heavy duty fans with optimal fan speed control
Power Supply	• 6x 3000W Redundant Titanium Level (96%) power supplies
System BIOS	• BIOS Type: AMI 32MB SPI Flash EEPROM
Management	• AMAX Composer • AMAX Server Manager (ASM) • AMAX Update Manager (AUM) • AMAX Doctor 5 (AD5) • AMAX Diagnostics Offline (ADO) • AMAX Thin-Agent Service (AAS) • AMAX Server Automation Assistant (AAA) New!
PC Health Monitoring	• CPU: Monitors for CPU Cores, Chipset Voltages, Memory - 7 +1 Phase-switching voltage regulator • FAN: Fans with tachometer monitoring - Status monitor for speed control • Temperature: Monitoring for CPU and chassis environment - Thermal Control for fan connectors
Operating Environment	• Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) • Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) • Operating Relative Humidity: 8% to 90% (non-condensing) • Non-operating Relative Humidity: 5% to 95% (non-condensing)

AMAX | 1565 Reliance Way, Fremont, CA 94539 | 1 (800) 800-6328 | www.amax.com | info@amax.com