

AceleMax® AXG-828IG

8U Dual Socket Intel Xeon 6900P Processors 8x Intel Gaudi® 3 Accelerators AI Training Server



Features

- Dual Intel® Xeon® 6900 series processors with P-cores
- Support for up to 24 DIMMs DDR5-6400 and 8800MT/s MRDIMMs; Support for 8 Gaudi® 3 OAM GPUs
- 6 On-board OSFP 800GbE ports
- Up to 2 PCIe 5.0 x16 FHFL and 2 PCIe 5.0 x8 FHFL slots
Default AIOM dual port 10GBase-T
- Up to 8 2.5" hot-swap NVMe Gen5 drive bays
- 8x 3000W (4+4) redundant Titanium level power supplies

Applications

- Industrial Automation, Drug Discovery, Climate and Weather Modeling, Massive-scale AI Training, LLMs & Multi-modal LLMs, Fraud Detection and Fintech

Specifications

Form Factor	<ul style="list-style-type: none"> • 8U Rackmount • Enclosure: 447 x 356 x 800mm (17.6" x 13.8" x 33.2") • Package: 1300 x 700 x 750mm (51" x 27.6" x 29.5")
Processor	<ul style="list-style-type: none"> • Dual Socket BR (LGA-7529) • Intel® Xeon® 6900 series processors with P-cores • Up to 128C/256T; Up to 504MB Cache per CPU
GPU	<ul style="list-style-type: none"> • Max GPU Count: Up to 8 onboard GPUs • Supported GPU: Intel OAM: Gaudi 3 • CPU-GPU Interconnect: PCIe Gen5 x16 • GPU-GPU Interconnect: 24x 200Gbe (48 x 112Gbps) PAM4 SerDes links split
System Memory	<ul style="list-style-type: none"> • Slot Count: 24 DIMM slots • Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM/LRDIMM • Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM
Drive Bays Configuration	<ul style="list-style-type: none"> • Default: Total 8 bays: - 8 front hot-swap 2.5" PCIe 5.0 NVMe drive bays M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default))
Expansion Slots	<ul style="list-style-type: none"> • PCI-Express (PCIe) Configuration: Default • 8 front hot-swap 2.5" PCIe 5.0 NVMe drive bays M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110 (default))
On-Board Devices	<ul style="list-style-type: none"> • Chipset: System on Chip • Network Connectivity: 6 OSFP 800GbE
Input / Output	<ul style="list-style-type: none"> • LAN: 1 RJ45 1 GbE Dedicated BMC LAN port • USB: 2 USB 3.0 Type-A ports • Video: 1 VGA port
System Cooling	<ul style="list-style-type: none"> • Fans: 10 Removable Heavy-Duty 80 x 80 x 80mm Fan(s)

Specifications	
Power Supply	<ul style="list-style-type: none"> • 8x 3000W Redundant Titanium Level (96%) power supplies
System BIOS	<ul style="list-style-type: none"> • BIOS Type: AMI 32MB SPI Flash EEPROM
Management	<ul style="list-style-type: none"> • AMAX Cloud Composer; AMAX Server Manager (ASM); AMAX Diagnostics Offline (ADO); AMAX Thin-Agent Service (TAS); AMAX Server Automation Assistant (AAA) New!
PC Health Monitoring	<ul style="list-style-type: none"> • CPU: Monitors for CPU Cores, Chipset Voltages, Memory • 7+1 Phase-switching voltage regulator • FAN: Fans with tachometer monitoring • Status monitor for speed control • Pulse Width Modulated (PWM) fan connectors • Temperature: Monitoring for CPU and chassis environment • Thermal Control for fan connectors
Operating Environment	<ul style="list-style-type: none"> • RoHS Compliant • Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) • Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) • Operating Relative Humidity: 8% to 80% (non-condensing) • Non-operating Relative Humidity: 8% to 90% (non-condensing)

