

# 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"> <li>• 8U Rackmount</li> <li>• Enclosure: 447 x 356 x 800mm (17.6" x 13.8" x 33.2")</li> <li>• Package: 1300 x 700 x 750mm (51" x 27.6" x 29.5")</li> </ul>
Processor	<ul style="list-style-type: none"> <li>• Dual Socket BR (LGA-7529)</li> <li>• Intel® Xeon® 6900 series processors with P-cores</li> <li>• Up to 128C/256T; Up to 504MB Cache per CPU</li> </ul>
GPU	<ul style="list-style-type: none"> <li>• Max GPU Count: Up to 8 onboard GPUs</li> <li>• Supported GPU: Intel OAM: Gaudi 3</li> <li>• CPU-GPU Interconnect: PCIe Gen5 x16</li> <li>• GPU-GPU Interconnect: 24x 200Gbe (48 x 112Gbps) PAM4 SerDes links split</li> </ul>
System Memory	<ul style="list-style-type: none"> <li>• Slot Count: 24 DIMM slots</li> <li>• Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM/LRDIMM</li> <li>• Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM</li> </ul>
Drive Bays Configuration	<ul style="list-style-type: none"> <li>• Default: Total 8 bays:</li> <li>- 8 front hot-swap 2.5" PCIe 5.0 NVMe drive bays</li> <li>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default))</li> </ul>
Expansion Slots	<ul style="list-style-type: none"> <li>PCI-Express (PCIe) Configuration: Default</li> <li>• 2 PCIe 5.0 x16 FHFL slots</li> <li>• 2 PCIe 5.0 x8 FHFL slots</li> <li>• 1 PCIe 5.0 x4 AIOM slot (OCP 3.0 compatible)</li> <li>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110 (default))</li> </ul>
On-Board Devices	<ul style="list-style-type: none"> <li>• Chipset: System on Chip</li> <li>• Network Connectivity: 6 OSFP 800GbE</li> </ul>
Input / Output	<ul style="list-style-type: none"> <li>• LAN: 1 RJ45 1 GbE Dedicated BMC LAN port</li> <li>• USB: 2 USB 3.0 Type-A ports</li> <li>• Video: 1 VGA port</li> </ul>
System Cooling	<ul style="list-style-type: none"> <li>• Fans: 10 Removable Heavy-Duty 80 x 80 x 80mm Fan(s)</li> </ul>

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

