QUANT AICORE XT960-G4

HIGH-PERFORMANCE AI & DEEP LEARNING GPU SERVER FOR ADVANCED COMPUTING AND VIRTUALIZATION

The Quant Quant AI Core XT960-G4 is a purpose-built AI computing powerhouse engineered to accelerate complex workloads such as Deep Learning, Artificial Intelligence (AI), GPU Computing, Scientific Simulation, and Data Center Virtualization.

Designed for performance-critical environments, it delivers the perfect balance of compute density, GPU scalability, and power efficiency, making it ideal for data centers, research institutes, and engineering applications.

PURPOSE-BUILT FOR GPU ACCELERATION

- Supports up to 4 dual-width, full-height GPU cards, providing outstanding parallel processing power for AI model training and scientific workloads.
- Powered by dual Intel® Xeon® Gold 5218 processors (16 cores each, 2.3 GHz) and Intel® C621 dual chipset, delivering superior multi-threaded performance.
- Optimized for AI frameworks, CUDA applications, and deep learning libraries such as TensorFlow, PyTorch, and Caffe.

UNMATCHED COMPUTE AND MEMORY BANDWIDTH

- 128 GB DDR4 ECC RDIMM memory across 16 DIMM slots, ensuring reliable high-speed data access.
- Scalable up to 1 TB total memory capacity for large dataset handling and simulation workloads.
- PCIe Gen3 architecture ensures high-throughput interconnect for GPUs, NICs, and storage controllers.

QUANT AICORE XT960-G4

FLEXIBLE STORAGE AND NETWORKING

- Equipped with 8 hot-swappable bays for high-density storage expansion.
- Dual Intel® X550 10GBase-T network ports deliver high-speed connectivity for data center and cluster environments.
- Dedicated IPMI management port provides secure, remote out-of-band server management.
- Fully compatible with Windows Server 2019 (64-bit) and Linux distributions (RHEL, Ubuntu, CentOS).

INTELLIGENT POWER AND THERMAL DESIGN

- 1600 W (1 + 1) redundant Platinum power supplies provide stable, efficient power delivery under heavy GPU loads.
- Advanced cooling system with optimized fan control and air-duct design ensures consistent thermal performance.
- Available in both tower configuration (whisper-quiet operation for labs and studios) and optional 4U rackmount chassis for data center deployment.

ENTERPRISE-CLASS RELIABILITY

- Designed for 24/7 continuous operation, combining hardware redundancy and thermal optimization.
- Built with enterprise-grade components certified for data center reliability and long lifecycle support.
- Fully serviceable chassis with tool-free front access simplifies upgrades and maintenance.

TECHNICAL SPECIFICATIONS

FEATURE	DESCRIPTION
Model	Quant AICore XT960-G4
Form Factor	Tower or optional 4U rackmount GPU server
Chipset	Intel® Dual C621 Server Chipset
Processor	Dual Intel® Xeon® Gold 5218 (16 Cores, 2.3 GHz)
Memory	128 GB DDR4 ECC (16 DIMMs, up to 1 TB)

QUANT AICORE XT960-G4

TECHNICAL SPECIFICATIONS

FEATURE	DESCRIPTION
GPU Support	4 × Dual-width, Full-height GPU cards
Storage Bays	8 × Hot-swappable 3.5"/2.5" drive bays
Network Interface	2 × Intel® X550 10GBase-T ports + 1 × IPMI management port
Expansion Slots	Multiple PCIe Gen3 x16 and x8 slots for GPU and I/O expansion
Power Supply	1600 W (1 + 1) Redundant Platinum PSU
Cooling System	Advanced multi-fan cooling with intelligent thermal control
Chassis	Tower 8-Bay GPU Chassis / Optional 4U Rackmount
Operating System	Windows Server 2019 (64-bit), Linux (RHEL, Ubuntu, CentOS)
Management	IPMI Remote Management / BMC Support
Dimensions (W × D × H)	Tower — (210 × 525 × 430 mm)
Weight	27 kg
Certitifications	CE, UL, FCC, ISO 14001:2015
Country of Origin	Malaysia
Warranty	3 Years

APPLICATIONS

- Deep Learning & AI Model Training
- GPU Computing & Simulation
- Scientific & Engineering Computation
- Data Center Virtualization
- High-Density Storage & Cluster Deployment