

QUANT COMPUTEEDGE CR2296



HIGH-PERFORMANCE 2U EDGE GPU SERVER FOR AI, ANALYTICS, AND VIRTUALIZATION

The Quant Compute Edge CR2296 is a powerful 2U rackmount server engineered for modern enterprise, surveillance, and AI-driven workloads.

Featuring the Intel® Xeon® Silver 4310 processor, PCIe 4.0 architecture, and NVIDIA® T1000 GPU, it delivers exceptional performance, scalability, and reliability for data-intensive applications across edge and core environments.

ALL-PURPOSE 2U EDGE SERVER

- Built on Intel® Xeon® Scalable platform (Ice Lake architecture) with 12 cores at 2.1 GHz and 145W TDP for balanced performance and efficiency.
- Ideal for AI inference, video analytics, access control servers, virtualization, and IoT gateways.
- Supports PCIe 4.0 for next-generation bandwidth in high-speed GPU, NIC, and RAID configurations.
- Dual 800W (1+1) redundant power supply ensures 24/7 operational reliability.

COMPUTE POWER MEETS FLEXIBILITY

- Up to 8 DDR4 DIMM slots with 32 GB RECC installed (expandable to 512 GB).
- Dual 480 GB 2.5" SATA SSDs configured for performance and redundancy.
- 2U 8-bay hot-swap chassis supports both 3.5" and 2.5" drives for flexible storage scaling.

ENHANCED GRAPHICS AND AI ACCELERATION

- Integrated NVIDIA® T1000 GPU (8 GB GDDR6) provides powerful parallel processing for video analysis, 3D visualization, and AI inferencing.
- Supports up to 4 simultaneous 4K displays — ideal for control rooms and monitoring centers.

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ADVANCED CONNECTIVITY & EXPANSION

- High-speed Intel® 82599 dual 10G SFP+ network card for backbone data throughput.
- 4 × 1GbE RJ45 LAN ports + 1 × IPMI management port for versatile networking.
- 9 total PCIe 4.0 slots (4 × x16, 3 × x8, 2 × M.2 x4) for maximum expansion flexibility.
- Equipped with LSI 9364-8i RAID controller with 1 GB cache supporting RAID 0/1/5/6/10/50/60.

SECURE AND MANAGEABLE

- IPMI remote management enables full monitoring, power control, and hardware health reporting.
- Hardware-level RAID and BIOS protection safeguard data integrity.
- Fully compatible with Windows Server 2019 (64-bit) and major Linux distributions.

TECHNICAL SPECIFICATIONS

FEATURE	DESCRIPTION
Model	Quant Compute Edge CR2296
Form Factor	2U Rackmount Server
Chipset	Intel® C620 Series (Server Class)
Processor	Intel® Xeon® Silver 4310, 12 Cores, 2.1 GHz, 120W
Memory	32 GB DDR4 RECC (up to 512 GB, 8 DIMM slots)
Storage	2 × 480 GB SATA 2.5" SSDs
Drive Bays	8 × 3.5"/2.5" Hot-swap Bays
RAID Controller	LSI 9364-8i, 1 GB Cache, RAID 0/1/5/6/10/50/60
GPU	NVIDIA® T1000 8 GB, 4 × DisplayPort (4K Supported)
Expansion Slots	4 × PCIe 4.0 x16, 3 × PCIe 4.0 x8, 2 × M.2 x4

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TECHNICAL SPECIFICATIONS

Network Interface	Intel® 82599 Dual 10G SFP+ NIC
Additional LAN	4 × 1GbE RJ45, 1 × IPMI Management Port
Power Supply	800 W (1+1) Redundant PSU
Cooling	Intelligent fan-based air cooling
Chassis	2U 8-Bay Hot-Swap Case with Rail Kit
Operating System	Windows Server 2019 (64-bit), Linux Compatible
Management	IPMI Remote Management
Dimensions (W × D × H)	650mm*437.5mm*88mm
Weight	27 kg
Certifications	CE, UL, FCC, ISO 14001:2015
Country of Origin	Malaysia
Warranty	3 Years

APPLICATIONS

- AI & Machine Learning Inference
- Video Analytics & Command Centers
- Access Control & Security Management Systems
- Industrial Automation & SCADA
- Virtualization & Edge Data Processing

