

QUANT COMPUTEDGE CR2144



HIGH-PERFORMANCE DUAL-PROCESSOR 2U SERVER FOR AI, VIRTUALIZATION, AND ADVANCED EDGE COMPUTING

The Quant ComputeEdge CR2144 represents the next generation of dual-socket performance servers, engineered for extreme computing, virtualization, and artificial intelligence.

Built on the 5th Generation Intel® Xeon® Scalable architecture, the CR2144 delivers breakthrough performance, advanced PCIe 5.0 bandwidth, and energy-efficient design — making it the ideal solution for modern data centers, AI labs, and industrial edge applications.

ALL-PURPOSE DUAL 2U COMPUTE PLATFORM

- Supports two Intel® 5th Gen Xeon® Scalable processors, providing up to 120 cores of compute power.
- Designed for AI inference, deep learning, and high-throughput virtualized workloads.
- Dual 2U architecture with 12 × 3.5" hot-swap drive bays and 4 × 2.5" SSD bays offers flexible storage scalability.
- Features a PCIe 5.0 motherboard, enabling next-generation accelerator, NIC, and RAID card performance.

EXTREME COMPUTE AND MEMORY CAPACITY

- Up to 32 DDR5 DIMM slots, supporting 5600 MHz ECC RDIMM for massive memory bandwidth.
- Engineered for data-intensive applications requiring large-scale in-memory processing.
- Dual CPU TDP ≤ 350 W heat-sink system with L-type radiators and universal air-flow duct ensures stable thermal performance.
- Intelligent N+1 Hot-swappable dissipation module provides efficient cooling for sustained full-load operation.

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ENTERPRISE STORAGE AND EXPANSION

- 12 × 3.5" SAS/SATA drive bays (support 2.5" conversion) + 4 × 2.5" SSD bays for OS and caching.
- 6 PCIe 5.0 slots — 2 × x16 and 4 × x8 — support single and dual-width GPU acceleration cards.
- Designed for up to 6 single-width or 2 dual-width GPUs, enabling AI training, NVR, and 3D simulation use cases.
- Fully compatible with Quant-certified storage and expansion options.

RELIABLE, EFFICIENT, AND SERVICE-READY

- Built for continuous 24/7 edge and data center operations.
- Tool-free 3-section ball rail kit (1.2 m) allows quick deployment and maintenance.
- Certified for performance and energy efficiency in demanding enterprise environments.

TECHNICAL SPECIFICATIONS

FEATURE	DESCRIPTION
Model	Quant ComputeEdge CR2144
Form Factor	2U Rackmount Server
Chipset	Intel® C741 / C752 series for 5th Gen Xeon Scalable platform
Processor	Dual Intel® 5th Gen Xeon® Scalable Processors (≤ 350 W TDP each)
Memory	32 × DDR5 DIMMs, 5600 MHz ECC RDIMM (max 4 TB capacity)
Storage Bays	Front: up to 12x 3.5" or 25x 2.5" hard drives Rear: up to 4x 3.5"+2x 2.5" hard drives or 2x 3.5"+4x 2.5" hard drives Built-in: 2x M.2(2280/22110, PCIe 4.0x4) Up to 24x U.2 NVME
Expansion Slots	6 × PCIe 5.0 (2 × x16, 4 × x8) + 4 × front USB ports
GPU Support	Up to 6 single-width or 2 dual-width GPU acceleration cards
RAID Controller	Compatible with Broadcom MegaRAID or Quant-approved RAID solutions
Network Interface	1x 1GbE RJ45 dedicated management network port 1x OCP3.0 NIC slot,

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TECHNICAL SPECIFICATIONS

FEATURE	DESCRIPTION
System Cooling	4x hot-swap fan modules, Supports N+1 redundancy, Supports intelligent speed regulation and abnormal alarm
Power Supply	1300 W Platinum 1+1 Redundant PSU
Operating System	Windows Server 2019 (64-bit), Linux (RHEL, Ubuntu, SUSE)
Management	Integrated BMC management chip, Supports IPMI2.0, Redfish, SOL, KVM, virtual media and other functions 1x 1GbE RJ45 special management port
Dimensions (L x D x H)	447 x 788 x 87 mm
Weight	19 kg
Certifications	CE, UL, FCC, ISO 14001:2015
Country of Origin	Malaysia
Warranty	3 Years

APPLICATIONS

- AI Training & Inference Servers
- High-Density Virtualization & Private Cloud
- Industrial Automation and Control Systems
- Video Analytics & Surveillance Platforms
- Edge Data Processing & IoT Aggregation

