QCT Server Solutions Powered by AMD

QCT Systems Supporting AMD EPYC™ 9005 Series processors, AMD Instinct™ MI325X GPUs, and next-gen AMD Instinct™ MI350 Series GPUs

| QuantaGrid D75T-7U | QuantaGridD75M-5U | QuantaGrid D44NL-1U | QuantaGrid D44N-1U |

AMD

EPYC | INSTINCT

AMD Instinct™ MI325X Platform

Memory:
Up to 2TB of HBM3E memory

Memory bandwidth:
6TB/s peak memory bandwidth

Architecture:
AMD CDNA™ 3

OAM Module:
Eight accelerated compute dies (XCDs) with 38 compute units (CUs), 32 KB of L1 cache per CU, 4 MB shared L2 cache shared across CUs, and 256 MB of AMD Infinity Cache™ shared across 8 XCDs.

- Built for enterprise AI, offering seamless integration for fast, cost-effective upgrades
- Drop-in compatible with existing AMD Instinct™ MI300X Platform
- Infinity Fabric™ technology for seamless data sharing
- AMD ROCm™ software to accelerate AI inferencing and training

* QCT systems will also support upcoming AMD Instinct™ MI350 Series GPUs

Elevated Data Center Performance with AMD EPYC™ Series Processors

	AMD EPYC™ 9005 Series	AMD EPYC™ 9004 Series
Max core count per socket	128 cores/ 256 threads	96 cores/ 192 threads
Max TDP	500W	400W
L3 cache	Up to 512 MB	Up to 384 MB
Memory channels / socket	12 channels, 2DPC	12 channels, 2DPC
Memory frequency	Up to 6400 MHz 1DPC	Up to 4800 MHz 1DPC
CPU interlinks	xGMI-3, 32GT/s	xGMI-3, 32GT/s
PCIe Lane	PCIe 5.0 128 lanes	PCIe 5.0 128 lanes

QCT Product Info

AMD EPYC

Enterprise → HPC → AI/Acceleration

SDS/HCI	Virtualization	Design & Simulation	IC design & EDA	Machine Learning	AI Training & Inferencing

QuantaGrid S44NL-1U   **QuantaGrid D44N-1U**   **QuantaGrid D75T-7U**   **QuantaGrid D75M-5U**

QuantaGrid D75T-7U

Transform Computational Capabilities and Achieve High Performance

AMD
EPYC | INSTINCT

- *Support AMD Instinct™ MI350 Series GPUs*
- *Powered by dual AMD EPYC™ 9004/9005 Series processors with up to 500W TDP*
- *Enhanced serviceability with tool-less, hot-swappable designs*
- *Accelerated parallel computing performance for the most extreme AI-HPC workloads*

Processor	(2) AMD EPYC™ 9004/9005 Series processors, up to 500W TDP
Memory	Up to 6TB memory capacity with (24) DDR5 RDIMM up to 6400 MHz
Networking	(1) Dedicated 1GbE management port
Storage	Front (18) 2.5" hot-swappable NVMe drives
Expansion Slot	(2) PCIe 5.0 x16 FHHL slots (8) PCIe 5.0 x16 HHHL slots
GPU Expansion Slot	(1) AMD Instinct™ MI300X/MI325X/MI350 Series 8-GPU baseboard
Dimensions	(W) 447.8 x (H) 307.85 x (D) 950mm
Form Factor	7U rackmount server

QuantaGrid D75M-5U

Advanced Performance for the Most Extreme AI-HPC Workloads

AMD
EPYC | INSTINCT

- *Support AMD Instinct™ MI350 Series GPUs*
- *Powered by dual AMD EPYC™ 9004/9005 Series processors with up to 500W TDP*
- *Enhanced serviceability with tool-less, hot-swappable designs*
- *Accelerated parallel computing performance for the most extreme AI-HPC workloads*

Processor	(2) AMD EPYC™ 9004/9005 Series processors, up to 500W TDP
Memory	Up to 6TB memory capacity with (24) DDR5 RDIMM up to 6400 MHz
Networking	(1) Dedicated 1GbE management port
Storage	Front (18) 2.5" hot-swappable NVMe drives
Expansion Slot	(2) PCIe 5.0 x16 FHHL slots (8) PCIe 5.0 x16 HHHL slots
GPU Expansion Slot	(1) AMD Instinct™ MI325X/MI350 Series 8-GPU baseboard
Dimensions	(W) 447.8 x (H) 219.5 x (D) 950mm
Form Factor	5U rackmount server

QuantaGrid S44NL-1U

Cost-effective Server with Scalable Expansion Options and Optimized Performance

- *Powered by single AMD EPYC™ 9004/9005 Series processor, up to 500W TDP*
- *Advanced air-cooling architecture supporting top-bin CPUs*
- *Liquid cooling-ready by design*
- *Up to 5x PCIe 5.0 expansion slots and the DC-SCM architecture to meet different configuration needs*
- *Featuring up to 3x single width accelerators to support AI inference workloads*
- *System optimized for cloud, enterprise, AI, HPC, networking, security and IoT workloads*

Processor	(1) AMD EPYC™ 9004/9005 Series processor, up to 500W TDP
Memory	Up to 6TB memory capacity with (24) DDR5 RDIMM up to 5200 MHz
Networking	(1) Dedicated 1GbE management port
Storage	**All U.2** Front (12) 2.5" hot-swappable NVMe/SATA/SAS drives **All E1.S** Front (12) or (16) E1.S hot-swappable NVMe drives
Expansion Slot	**Default configuration** (3) PCIe 5.0 x16 HHHL slots (2) PCIe 5.0 x16 OCP 3.0 slots **SKU - #1** (2) PCIe 5.0 x16 HHHL slots (2) PCIe 5.0 x16 OCP 3.0 slots **SKU - #2** (2) PCIe 5.0 x16 FHHL slots (2) PCIe 5.0 x16 OCP 3.0 slots
Dimensions	(W) 440 x (H) 43.2 x (D) 780mm
Form Factor	1U rackmount server

QuantaGrid D44N-1U

Ultimate 1U Server with AMD EPYC Performance Breakthrough

- *Powered by dual AMD EPYC™ 9004/9005 Series processors, up to 500W TDP*
- *Advanced air-cooling architecture supporting top-bin CPUs*
- *Liquid cooling-ready by design*
- *Up to 5x PCIe 5.0 expansion slots and the DC-SCM architecture to meet different configuration needs*
- *Featuring up to 3x single width accelerators to support AI inference workloads*
- *System optimized for cloud, enterprise, AI, HPC, networking, security and IoT workloads*

Processor	(2) AMD EPYC™ 9004/9005 Series processors, up to 500W TDP
Memory	Up to 6TB memory capacity with (24) DDR5 RDIMM up to 6400 MHz
Networking	(1) Dedicated 1GbE management port
Storage	**All U.2** Front (12) 2.5" hot-swappable NVMe/SATA/SAS drives **All E1.S** Front (12) or (16) E1.S hot-swappable NVMe drives
Expansion Slot	**Default configuration** (3) PCIe 5.0 x16 HHHL slots (2) PCIe 5.0 x16 OCP 3.0 slots **SKU - #1** (2) PCIe 5.0 x16 HHHL slots (2) PCIe 5.0 x16 OCP 3.0 slots **SKU - #2** (2) PCIe 5.0 x16 FHHL slots (2) PCIe 5.0 x16 OCP 3.0 slots
Dimensions	(W) 440 x (H) 43.2 x (D) 780mm
Form Factor	1U rackmount server

About QCT

Quanta Cloud Technology (QCT) designs, manufactures, integrates and services cutting edge offerings for 5G Telco/Edge, AI/HPC, Cloud, and Enterprise infrastructure via its own global network. Product lines include hyper-converged and software-defined data center solutions as well as servers, storage, and network switches from 1U to entire racks with a diverse ecosystem of hardware components and software partners to fit a variety of business verticals and workload parameters.

https://www.qct.io/

www.QCT.io

Contact Us

ver May., 2025