



# QCT Server Solutions Powered by AMD



QCT systems supporting AMD EPYC™ 9005 Series processors, AMD Instinct™ MI300X/MI325X GPUs, and upcoming MI350X GPUs with design readiness.

| QuantaGrid D75T-7U | QuantaGrid S44NL-1U | QuantaGrid D44N-1U |



## AMD Instinct™ MI350X Platform



### Memory:

Up to 2.3TB of HBM3E memory

### Memory bandwidth:

8TB/s peak memory bandwidth

### Architecture:

AMD CDNA™ 4

### OAM Module:

Eight accelerated compute dies (XCDs) with 32 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/MI325X Platform**

**Infinity Fabric™ technology for seamless data sharing**

**AMD ROCm™ software to accelerate AI inferencing and training**



## Elevated Data Center Performance with AMD EPYC™ Series Processors

	AMD EPYC™ 9005 Series	AMD EPYC™ 9004 Series
Max core count per socket	192 cores/384 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

Enterprise

HPC

AI/Acceleration



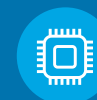
SDS/HCI



Virtualization



Design & Simulation



IC design & EDA



Machine Learning



AI Training & Inferencing



QuantaGrid S44NL-1U



QuantaGrid D44N-1U



QuantaGrid D75T-7U

**AMD**  
**EPYC**

## QuantaGrid D75T-7U



Transform Computational Capabilities  
and Achieve High Performance



- *Design readiness for AMD Instinct™ MI350X 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

(24) DDR5 RDIMM up to 6400 MHz

### Accelerator

(8) AMD Instinct™ MI300X/MI325X GPUs; compatible with upcoming AMD Instinct™ MI350X GPUs  
(8) NVIDIA H200 SXM GPUs

### Storage

Front (18) hot-swappable 2.5" PCIe 5.0 NVMe SSDs

### Networking

(1) Dedicated 1GbE management port

### Expansion Slot

(2) FHHL DW PCIe 5.0 x16 slots  
(8) HHHL SW PCIe 5.0 x16 slots

### Form Factor

7U Rackmount Server

### Dimensions

(W) 448 x (H) 308 x (D) 950mm

## 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

(24) DDR5 RDIMM up to 5200 MHz

### Storage

**SKU1**  
(12) 2.5" hot-swappable NVMe/SATA/SAS SSDs  
**SKU2**  
(16) E1.S hot-swappable SSDs

### Networking

(1) Dedicated 1GbE management port

### Expansion Slot

**Option 1:**  
(3) HHHL PCIe 5.0 x16 slots + (2) OCP 3.0 slots  
**Option 2:**  
(2) FHHL PCIe 5.0 x16 slots + (2) OCP 3.0 slots

### Form Factor

1U Rackmount Server

### Dimensions

(W) 440 x (H) 43.2 x (D) 780mm

## 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 processor, up to 500W TDP
Memory	(24) DDR5 RDIMM up to 5200 MHz
Storage	<b>SKU1</b> (12) 2.5" hot-swappable NVMe/SATA/SAS SSDs <b>SKU2</b> (16) E1.S hot-swappable SSDs
Networking	(1) Dedicated 1GbE management port
Expansion Slot	<b>Option 1:</b> (3) HHHL PCIe 5.0 x16 slots + (2) OCP 3.0 slots <b>Option 2:</b> (2) FHHL PCIe 5.0 x16 slots + (2) OCP 3.0 slots
Form Factor	1U Rackmount Server
Dimensions	(W) 440 x (H) 43.2 x (D) 780mm

## 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](https://www.QCT.io)



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