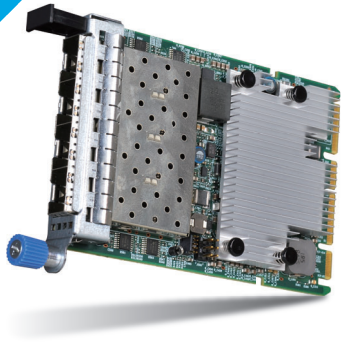
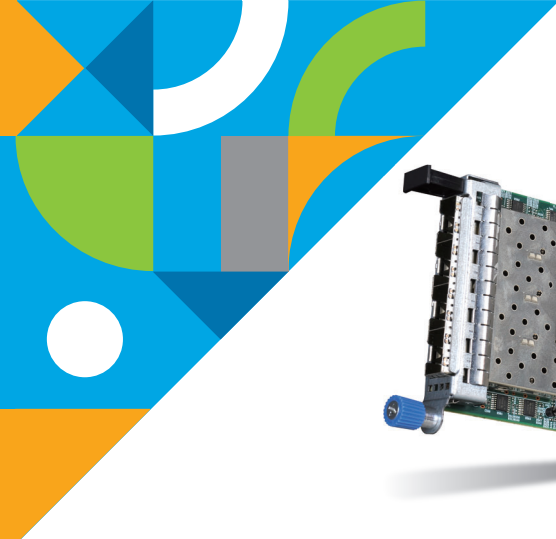




TOTAL CLOUD SOLUTIONS

Based on AMD EPYC™ Processors

AMD
EPYC



Next Generation Network: OCP 3.0 Mezzanine

- Up to 200GbE with PCIe x16 bandwidth
- Hardware optimized for Pull-Tab, Ejector and Internal lock types of OCP Mezzanine
- PCIe 4.0 ready; backward compatible with PCIe 3.0
- OCP 3.0 to OCP 2.0 adapter for legacy utilizations

Breakthrough Performance

- Dual 64-core AMD EPYC™ 7002 series processors score more than twice as the 2-Socket competitor in system level performance.
- The 2nd Gen EPYC™ CPU gained over 200% improvement on CPU and memory processing than the 1st Gen.

* Performance data all based on dual socket QCT platforms from QCT lab.

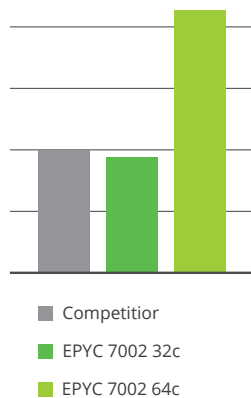
* EPYC 7002 data based on pre-production sample with AGESA 1.0.0.0 for early reference. Test result with MP CPU and final AGESA may be updated without prior notice.

SpecCPU 2017 SPECrate Integer

Node performance with Integer workloads

+219%
than competitor's top bin CPU

+130.2%
than EPYC™ 7601

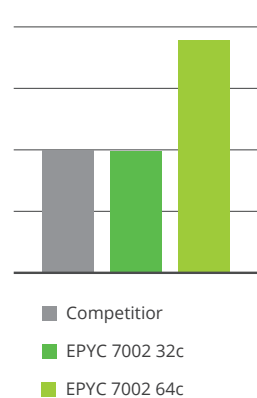


SpecCPU 2017 SPECrate FP

Node performance with floating point workloads

+84.4%
than competitor's top bin CPU

+85.7%
than EPYC™ 7601

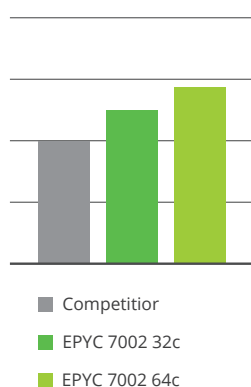


Stream

Pure memory throughput

+41.7%
than competitor's top bin CPU

+16.8%
than EPYC™ 7601

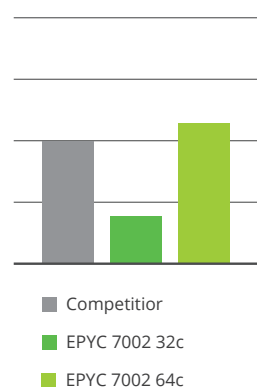


High-Performance Linpack (HPL)

CPU and memory processing

+13.9%
than competitor's top bin CPU

+213.3%
than EPYC™ 7601



First to Power on the AMD EPYC™ 7002 Series Processor

The QCT EPYC™ 7002 product line started way ahead of others. As a close partner with AMD developing Daytona, the 2nd generation EPYC™ 7000 processor customer reference board (CRB) since early 2018, QCT was the first to power on AMD EPYC™ 7002 series processors.

CPU Spec to Spec Comparison

Feature	AMD EPYC™ 7002 Series Processor	Competition
Max core count per socket	64 cores / 128 threads	28 cores / 56 threads
Max TDP	225W configured up to 240W	205W
Memory channels /socket	8ch, 2DPC	6ch, 2DPC
Memory frequency	3200 Mhz	Up to 2933 Mhz
CPU interlinks	xGMI-2, 16 GT/s	10.4 GT/s
PCIe Lane	128 lanes PCIe 4.0	48 lanes PCIe 3.0

PCIe 4.0 vs PCIe 3.0

Feature	PCIe 4.0	PCIe 3.0
Bandwidth	16 Gb/s	8 Gb/s
Throughput with PCIe x8 slot	100 GbE NIC support	50 GbE NIC support
Throughput with PCIe x16 slot	200 GbE NIC support	100 GbE NIC support

QuantaGrid D43K-1U Ultimate 1U Server with EPYC Performance Breakthrough



- Dual AMD EPYC processor with up to 4TB memory capacity
- Up to 5 expansion slots optimized for PCIe 4.0 and AI workloads
- Enhanced serviceability with tool-less, hot-swap designs

QuantaGrid D43K-1U is designed to unleash the power within the AMD EPYC™ 7002 Series Processors. Featuring up to 4TB memory capacity, 5 expansion slots and single width GPU support within a 1U chassis, it is the first PCIe 4.0 platform ever in the QCT product family, ready for deployment in next generation data centers.

	2.5" SKU	3.5" SKU
Processor	(2) AMD EPYC™ 7002 Series Processor, up to 225W TDP (240W cTDP)	
Memory	Up to 4TB memory capacity with (32) DDR4 DIMM slots. Supporting 3200 MHz 1DPC	
Storage	(12) 2.5" U.2 SSD	(4) 3.5" SATA/SAS drives Optional (4) 9mm NVMe/SATA/SAS drives
Network Controller	(1) OCP 3.0 mezzanine (1) 1 GbE dedicated management port	
Expansion Slot	(1) PCIe 4.0 x8 SAS mezzanine slot (1) PCIe 4.0 x8 OCP 3.0 mezzanine SFF slot (2) PCIe 4.0 x16 FHHL or (3) PCIe 4.0 x16 HHHL	
Form Factor	1U Rackmount	

QuantaGrid D43KQ-2U Highly Scalable "EPYC" 2U Server Built for AI



- Scalable configurations, Built for AI
- Diversified I/O options for diversified workloads
- Full featured design optimized for PCIe 4.0

QuantaGrid D43KQ-2U is powered by dual AMD EPYC™ 7002 Series Processors supporting up to 10 PCIe 4.0 expansion slots and AI capabilities. It features two dual-width GPU accelerators with optimized thermal conditions, 24 U.2 NVMe drives, and up to 4TB memory capacity within just a 2U rackmount QCT server.

	LFF Tiered SKU	SFF Tiered Expander SKU	SFF Pass Through SKU
Processor	(2) AMD EPYC™ 7002 Series Processors, up to 225W TDP (240W cTDP)		
Memory	Up to 4TB memory capacity with (32) DDR4 DIMM slots. Supporting 3200 MHz 1DPC		
Storage	Front (4) 3.5" SATA/SAS drives + (8) 3.5"/2.5" SATA/SAS/NVMe drives Rear (Optional) (2) 2.5" SATA/SAS/NVMe drives	Front (16) 2.5" SATA/SAS + (8) 2.5" SATA/SAS/NVMe (SAS/SATA via SAS Mezz) Rear (Optional) (2) 2.5" SATA/SAS/NVMe drives	Front (16) 2.5" SATA/SAS + (8) 2.5" SATA/SAS/NVMe (SAS/SATA via SAS Mezz) Rear (Optional) (2) 2.5" SATA/SAS/NVMe drives
Network Controller	(1) PCIe 4.0 x8 OCP 3.0 mezzanine (1) Dedicated 1 GbE management port		
Expansion Slot	(1) PCIe 4.0 x8 SAS mezzanine <i>Option 1:</i> (2) PCIe 4.0 x16 FHHL + (4) PCIe 4.0 x8 FHHL <i>Option 2:</i> (4) PCIe 4.0 x16 FHHL Optional: (1) PCIe 4.0 x8 HHHL, (1) PCIe 4.0 x16 HHHL or (2) 2.5" rear drive		
Form Factor	2U Rackmount		

*For more product information, please scan the QR Code



QuantaGrid S43KL-1U Revolutionary Single Socket Compute Server



- An "EPYC" single socket compute server to challenge traditional dual socket systems
- TCO optimized yet AI enabled
- Feature optimized for PCIe 4.0 deployment

QuantaGrid S43KL-1U is no ordinary single socket rackmount server. Geared up with one AMD EPYC™ 7002 Series Processor, featuring up to 2TB memory and five I/O slots, it aims to challenge the traditional dual socket data center ecosystem with flexible I/O options, single width GPU support, and PCIe 4.0 readiness.

	SFF SKU	LFF SKU
Processor	(1) AMD EPYC™ 7002 Series Processor, up to 225W TDP (240W cTDP)	
Memory	Up to 2TB memory capacity with (16) DDR4 DIMM slots. Supporting 3200 MHz 1DPC	
Storage	(12) 2.5" hot-plug SATA/NVMe SSD	(4) 3.5" SATA/SAS drives (4) 9mm NVMe/SATA/SAS drives (optional)
Network Controller	(1) OCP 3.0 mezzanine (1) 1 GbE dedicated management port	
Expansion Slot	(1) PCIe 4.0 x8 SAS mezzanine slot <i>Option 1:</i> (2) PCIe 4.0 x16 HHHL & (1) PCIe 4.0 x8 HHHL <i>Option 2:</i> (2) PCIe 4.0 x16 FHHL	
Form Factor	1U Rackmount	

QuantaGrid D42A-2U

All NVMe Server Perfect for CDN & Big Data Analytics



- Perfectly compatible with both EPYC™ 7001 and 7002 Series Processors
- Supports up to 24 U.2 NVMe SSDs
- Up to two PCIe x16 slots for up to 2x 100GbE NICs
- All tool-less design with easy service motherboard tray

QuantaGrid D42A-2U puts your data center in hyperdrive. It is designed for intense storage IO, perfect for SDS, CDN, and a variety of database workloads. D42A-2U is fast and flexible, ready to tackle your toughest workloads.

	24 NVMe SKU	20 NVMe SKU
Processor	(1) AMD EPYC™ 7000 Series Processor, Up to 200W TDP	
Memory	Up to 2TB memory capacity with (16) DDR4 DIMM slots	
Storage	(24) 2.5" hot-plug SATA/NVMe SSD	(20) 2.5" hot-plug SATA/NVMe SSD
Network Controller	(1) OCP 2.0 mezzanine Type A (1) 1 GbE dedicated management port	
Expansion Slot	(1) PCIe 3.0 x8 OCP 2.0 mezzanine Type A (1) PCIe 3.0 x16 HHHHL or (2) PCIe 3.0 x8 HHHHL	(1) PCIe 3.0 x8 OCP 2.0 mezzanine Type A (2) PCIe 3.0 x16 HHHHL or (1) PCIe 3.0 x16 + (2) PCIe 3.0 x8
Form Factor	2U Rackmount	

QuantaPlex S43CA-2U

Density Optimized "EPYC" Multi-node Server

Coming Soon



- High Density server design powered by the latest AMD EPYC™ 7002 Series processors
- Single socket EPYC processor with 16 DIMMs per node optimized for compute-centric Data Center requirements
- Front-access cold-aisle hyperscale serviceability
- Aggregated networking infrastructure for reduced TCO

The QuantaPlex S43CA-2U is a multi-node server that supports the next generation of powerful AMD EPYC™ processors. Each of the 4 nodes in this compact 2U chassis is capable of supporting the top bin AMD EPYC™ 7002 Series Processors, boasting a dominant 64-cores along with 16 DIMM slots that can meet the most intense computing environment needs.

This sophisticated architecture features front access sled serviceability that improves thermal conditions and hyperscale-like cold-aisle service for reduced OPEX.

Calculated to minimize TCO even further, the infrastructure integrates pass-through modules for aggregated networking that decreases cable clutter and reduces networking footprint.

Processor	(1) AMD EPYC™ 7002 Series Processor per node, up to 225W TDP (240W cTDP)
Memory	(16) DDR4 DIMM slots per node, Supporting 3200 MHz 1DPC
Front IO	Option 1: (1) PCIe 4.0 x16 FHHL expansion slot per node (1) PCIe 4.0 x16 HHHHL expansion slot per node Option 2: (2) 2.5" hot-plug NVMe/SATA SSD per node (5) 2.5" hot-plug NVMe/SATA SSD per node
Onboard Storage	(2) 2280/22110 NVMe M.2 per node
Network	Single/Dual 25G port per node
Rear IO	(1 or 2) single/dual 100G port pass-through module
Form Factor	2U Rackmount, 4 nodes



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About QCT

Quanta Cloud Technology (QCT) is a global data center solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation data center design and operation challenges. QCT serves cloud service providers, telecoms and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined data center solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent company of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

www.QCT.io



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