



Total Cloud Solutions with **AMD EPYC™ PROCESSORS**

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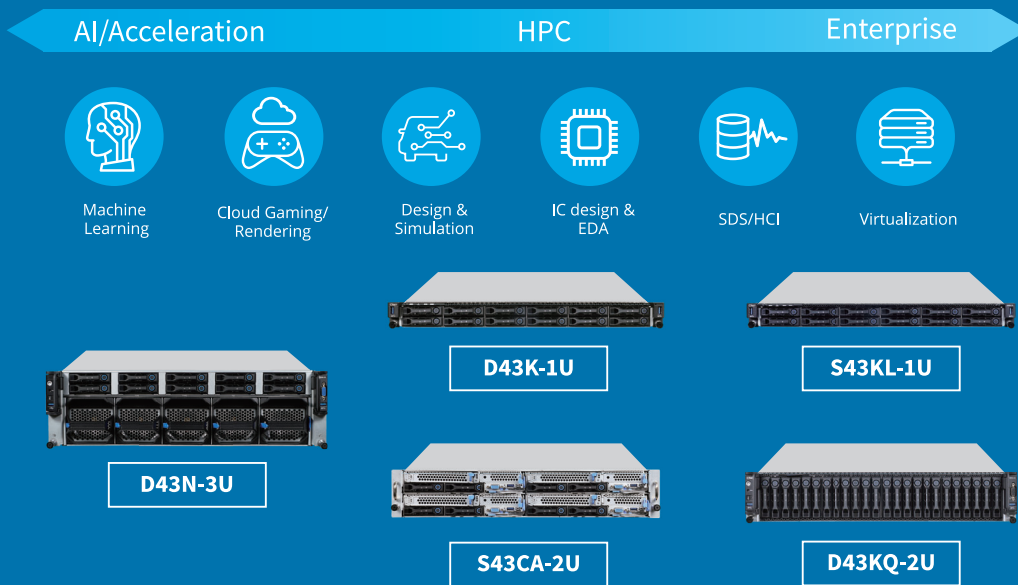
AMD
EPYC



Elevated Data Center Performance with EPYC™

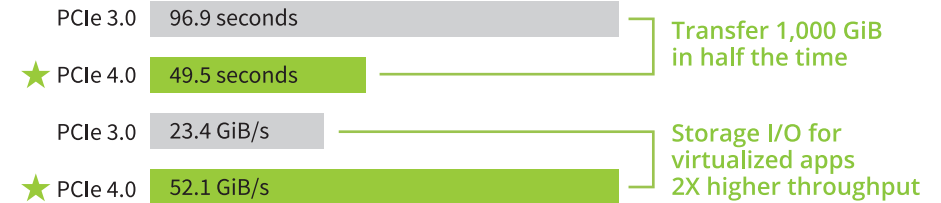
Feature	AMD EPYC™ 7003 Series Processor	Competition
Max core count per socket	64 cores / 128 threads	28 cores / 56 threads
Max TDP	280W	205W
Memory channels /socket	8ch, 2DPC	6ch, 2DPC
Memory frequency	Up to 3200 MHz	Up to 2933 MHz
CPU interlinks	xGMI-2, 16 GT/s	10.4 GT/s
PCIe Lane	128 lanes PCIe 4.0	48 lanes PCIe 3.0

EPYC™ Product Value Proposition



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The Era of PCIe 4.0

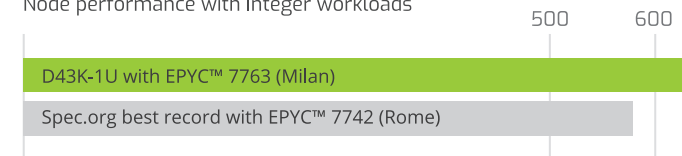


Breakthrough Performance

- Dual 64-core AMD EPYC™ 7003 series processors beat the best record from Spec.org with its predecessor, EPYC™ 7742, on both integer and floating point workloads.
- Dual 64-core AMD EPYC™ 7763 processors are able to drive better memory bandwidth performance than the previous gen.

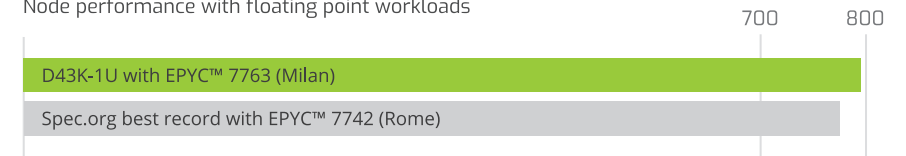
SpecCPU FP Rate

Node performance with Integer workloads



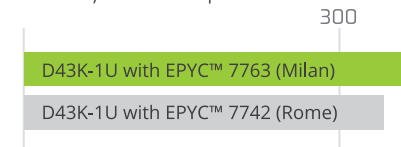
SpecCPU INT Rate

Node performance with floating point workloads



Stream

Memory bandwidth performance



*EPYC™ 7003 data based on pre-production sample for early reference on dual socket platforms. Test result with final stepping CPU may be updated without prior notice.

*Scores sourced from spec.org public data from the result of 3/10, 2021.

QuantaGrid D43K-1U



Ultimate 1U Server with EPYC Performance Breakthroughs

- *Dual AMD EPYC™ processors with up to 4TB memory capacity*
- *Up to five expansion slots optimized for PCIe 4.0*
- *Supports up to 280W TDP for HPC workloads*

QuantaGrid D43K-1U is designed to unleash the power within AMD EPYC™ 7003 series processors. Featuring up to 4TB memory capacity, five PCIe 4.0 expansion slots and support for a single width GPU within a 1U chassis, it is optimized for the HPC workloads such as CFD design simulation and EDA tools for IC design, ready for deployment in your next generation data center.

Processor	(2) AMD EPYC™ 7003 Series Processor, up to 280W TDP		
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 D43N-3U



Optimized Acceleration Server

- *Up to 128 CPU cores with 8TB memory capacity*
- *Flexible acceleration card configuration optimized for both compute and graphic intensive workloads*
- *Easy service design for minimum downtime*

QuantaGrid D43N-3U is a dual-socket acceleration server, supporting AMD EPYC™ 7003 top bin processors with a fully populated memory channel to feed high throughput GPU cards which boost extreme parallel computing performance. Its various PCIe configurations with versatile acceleration card support allow this platform to conquer many workloads including but not limited to compute intensive application such us oil/gas, molecular dynamics, AI training and inference, but also graphic intensive ones like graphics rendering, virtual workstations, and cloud gaming.

Processor	(2) AMD EPYC™ 7003 Series Processor, up to 280W TDP			
Memory	Up to 8TB memory capacity with (32) DDR4 DIMM slots. Supporting 3200 MHz 1DPC			
Storage	(8) 2.5" SATA/SAS + (2) 2.5" SATA/SAS/NVMe	(6) 2.5" SATA/SAS + (4) 2.5" SATA/SAS/NVMe	(2) 2.5" SATA/SAS + (8) 2.5" SATA/SAS/NVMe	(6) 2.5" SATA/SAS + (4) 2.5" SATA/SAS/NVMe
Network Controller	(1) OCP 3.0 mezzanine (1) 1 GbE dedicated management port			
GPU slot	[option 1] (4) PCIe x16, Full height, 10.5"L, dual-width [option 2] (8) PCIe x8 HHHL/Full height, 10.5"L, single-width [option 3] (8) PCIe x16, HHHL/Full height, 10.5"L, single-width			
Expansion Slot	(1) PCIe x8, OCP Mezz (1) PCIe x16, HHHL (1) PCIe x8 SAS Mezz (1) PCIe x16, HHHL	(1) PCIe x8, OCP Mezz (1) PCIe x8, HHHL (1) PCIe x8 SAS Mezz (1) PCIe x16, HHHL	(1) PCIe x8, OCP Mezz (1) PCIe x8 SAS Mezz 16i (1) PCIe x8, HHHL	(1) PCIe x8, OCP Mezz (1) PCIe x8, HBA & RAID (1) PCIe x8 SAS Mezz (1) PCIe x16, HHHL
Form Factor	3U Rackmount			

QCT EPYC™ PRODUCT LINE

EPYC™ Compute Server



QuantaGrid D43K-1U

1U / Dual Processor

#Compute #HPC #CFD #EDA



QuantaGrid D43KQ-2U

2U / Dual Processor

#Compute #SDS #AI Influence
#vSAN



QuantaGrid S43KL-1U

1U / Single Processor

#Compute #SDS #Enterprise
#TCO

EPYC™ AI Acceleration Server



QuantaGrid D43N-3U

3U / Dual Processor with Accelerator

#HPC #AI Training #AI Influence
#Rendering #CloudGaming

EPYC™ Multi-Node Server



QuantaGrid S43CA-2U (4-node)

2U4N / Single Processor

#FrontAccess #EDA #Compute

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