



QuantaGrid D43N-3U

Optimized Accelerated Server

- Flexible configurations for accelerator cards to support both compute and graphic intensive workloads
- Up to 128 CPU cores with an 8TB memory capacity to feed high throughput accelerator cards
- Up to 2x HDR/200GbE networking ports for cluster computing
- Easy maintenance designs for minimum downtime

About QCT

Quanta Cloud Technology (QCT) is a global datacenter solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation datacenter 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 datacenter 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 of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

Found at: www.QCT.io/wheretobuy



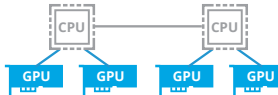
QuantaGrid D43N-3U is a dual-socket accelerated server powered by AMD EPYC™ 7003 top bin processors. Its fully populated memory channels can feed high throughput GPU cards to boost extreme parallel computing performance.

Its various PCIe configurations can support different accelerator cards, making it an ideal platform for diverse workloads, including compute intensive applications (e.g., oil/gas exploration, molecular dynamics, AI training /inference) and graphic intensive use cases (e.g., graphic rendering, virtual workstation, and cloud gaming).

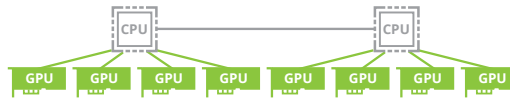
Flexible Accelerator Card Configurations Optimized for Both Compute and Graphic Intensive Workloads

QuantaGrid D43N-3U provides different GPU topologies for diverse use cases:

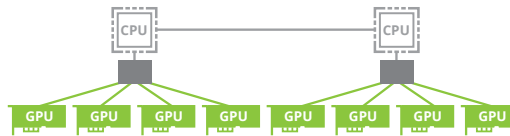
- 165W-300W GPU
- 70W-150W GPU



- **Four 165W – 300W** GPUs to accelerate HPC, AI training, AI inference, cloud gaming and rendering



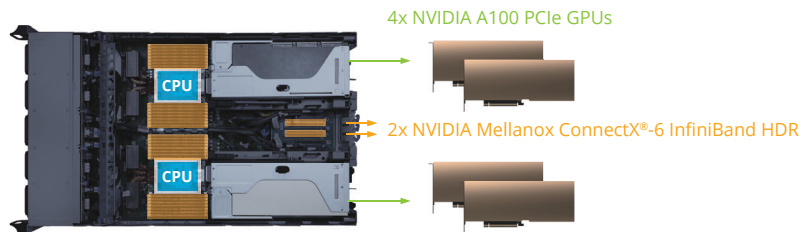
- **Eight 70W – 150W** GPUs to provide a TCO-optimized virtual workstation solution for multi-stream medium spec cloud gaming, AI inferencing, and video analytics



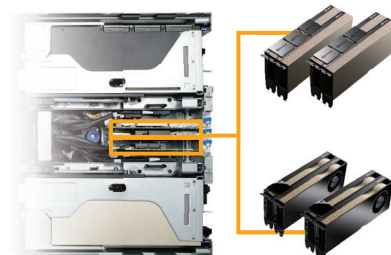
- **Eight 150W** GPUs to support cost-effective AI training and mixed workloads involving AI inference

128 CPU Cores with up to 8TB Memory to Feed High Throughput GPUs

QuantaGrid D43N-3U can support two AMD EPYC™ 7003 top bin CPUs up to 280W and 32x DIMM slots, which is powerful enough to feed four high throughput GPU cards such as NVIDIA A100 Tensor Core GPU. It can deliver up to 45.6 Tera FLOPS HPL performance, which makes D43N-3U a TCO-optimized solution for data centers running HPC applications in molecular dynamics, life sciences and more fields.



D43N-3U Supports 4x A100/A30/A6000 with NVIDIA NVLink™ Bridges



Data Analytics - Big Database

- (4) NVIDIA A100 Tensor Core GPU
Each pair of A100 – a combined 80GB of graphic memory – 600 GB/s
- (4) NVIDIA A30 Tensor Core GPU
Each pair of A30 – a combined 48GB of graphic memory – 200 GB/s

High Resolution Rendering

- (4) NVIDIA RTX A6000
Each pair of A6000 - a combined 96GB of graphic memory – 112 GB/s

QuantaGrid D43N-3U Specifications

Processor	Processor Type: AMD EPYC™ 7003 Series Processors Max. TDP Support: up to 280W Number of Processors: 2 Processors			
Form Factor	3U Rackmount			
Dimensions	W x H x D (inch): 17.2 x 5.2 x 29.9 W x H x D (mm): 438 x 131.6 x 760			
Chipset	SoC			
Storage	SKU - #1 (8) 2.5" SATA/SAS + (2) 2.5" SATA/SAS/NVMe	SKU - #2 (6) 2.5" SATA/SAS + (4) 2.5" SATA/SAS/NVMe	SKU - #3 (2) 2.5" SATA/SAS + (8) 2.5" SATA/SAS/NVMe	SKU - #4 (6) 2.5" SATA/SAS + (4) 2.5" SATA/SAS/NVMe (NVMe from Storage controller)
Memory	Total Slots: 32 Capacity: Up to 8TB (256Gx32) of memory capacity Memory Type: 2933/3200 MHz DDR4 RDIMM/LRDIMM Memory Size: 16G, 32G, 64G, 128G, 256G RDIMM/LRDIMM/3DS DIMM			
Expansion Slot	SKU - #1 (1) PCIe x8, OCP Mezz (1) PCIe x16, HHHH (1) PCIe x8, SAS Mezz (1) PCIe x16, HHHH	SKU - #2 (1) PCIe x8, OCP Mezz (1) PCIe x8, HHHH (1) PCIe x8, SAS Mezz (1) PCIe x16, HHHH	SKU - #3 (1) PCIe x8, OCP Mezz (1) PCIe x8, SAS Mezz (1) PCIe x8, HHHH	SKU - #4 (1) PCIe x8, OCP Mezz (1) PCIe x8, HBA&RAID (default) (1) PCIe x8, SAS Mezz (default) (1) PCIe x16, HHHH
Network Controller	LOM: Dedicated (1) GbE management port			
Front I/O	(1) Power button/LED, (1) ID button/LED, (1) Status LED, (1) Reset button, (2) USB 3.0, (1) VGA			
Storage Controller	Optional Controller: Quanta LSI® PCIe Gen4 3816 12Gb/s SAS mezzanine Quanta LSI® PCIe Gen4 3916 12Gb/s SAS mezzanine (RAID 0,1,5,6,10,50,60) (Please refer to the CCL for more options)			
Power Supply	2+2 high efficiency hot-plug 1600W/2000W PSU, 80 Plus Platinum (200V-240V)			
Onboard Storage	(1) 2280 SATA/PCIe M.2			
Fan	(5) dual rotor fans (9+1 redundant)			
Video	Integrated ASPEED AST2500 8MB DDR4 video memory			
System Management	Redfish v1.8 IPMI v2.0 Compliant, on board "KVM over IP" support			
Rear I/O	(2) USB 3.0 ports, (1) VGA port, (1) MicroUSB port, (1) 1GbE RJ45 management port, (1) ID LED, (1) MicroSD slot			
Operating Environment	Operating temperature: 5°C to 35°C Non-operating temperature: -40°C to 70°C Operating relative humidity: 20% to 85%RH Non-operating relative humidity: 10% to 95%RH			
TPM	TPM 2.0 SPI module			
Weight (Max. Configuration)	37 (kg)			

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