



QuantaGrid D54Q-2U

Scale Ahead for the Workload of Tomorrow

- **Ultimate resilience and scalability with up to 10x PCIe 5.0 expansions**
- **Optimized for AI acceleration: Support up to 2x dual-width accelerators in 2U system**
- **Support All 24x NVMe U.2 or E1.5 as hot-tier storage, targeting HPC and enterprise workloads**

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

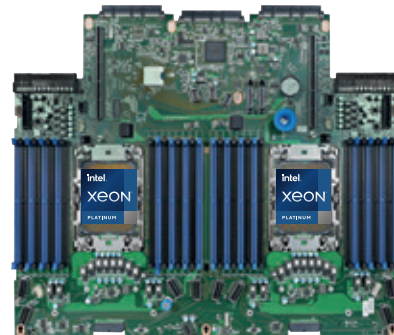


Powered by 4th Gen Intel® Xeon® Scalable Processors

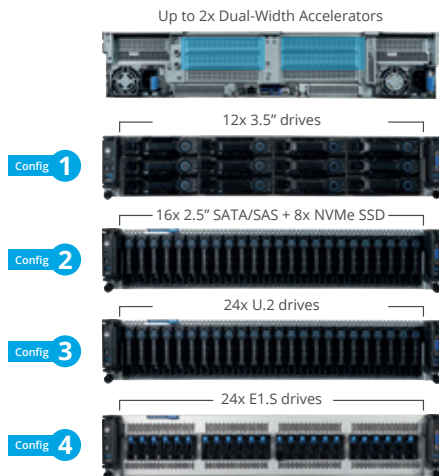


Ultimate Compute Performance and Workload Driven Architecture

- Powered by dual 4th Gen Intel® Xeon® Scalable Processors with up to 4x UPI of 16 GT/sec CPU interconnect speed.
- Advanced system cooling architecture supporting the top bin 350W TDP CPU, both air and liquid cooling ready.
- Up to 10x PCIe Gen5 expansion slot and DC-SCM architecture to meet different configurations.
- Up to 2x dual-width accelerators supported for AI inference workloads.
- System optimized for cloud, enterprise, AI, HPC, network, security, and storage workloads.

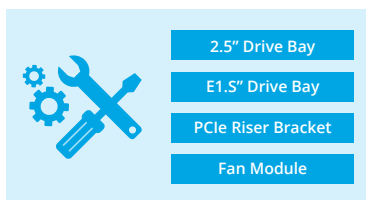


Scalability, Flexibility, Capability, All in 2U



- Built-in AI acceleration: support up to 2x dual-width accelerators in 2U systems.
- Flexible SKU options from 3.5", 2.5" to E1.5 SKUs, all ready for PCIe Gen5.
- Optional rear NVMe as booting device, or high-speed NIC with optional HHHHL slots.
- Up to 24x E1.5 or U.2 drives, targeting high-performance hot-tier storage, HPC, and enterprise workloads.

Quick Deployment with Great Serviceability



- Tool-less, hot-swap designs for drive trays, riser brackets and fan modules.
- Easy service with OCP3.0 pull-tab & ejector without opening chassis.

Easy Management with Orqestra



- Secure and dynamic data administration of data center resources with Orqestra (QCT System Manager).
- Monitor up to 5000 devices per Orqestra module.

QuantaGrid D54Q-2U Specifications

Processor	<p>Processor Type: 4th gen Intel® Xeon Scalable processor</p> <p>Max. TDP Support: 350W</p> <p>Number of Processors: (2) Processors</p> <p>Internal Interconnect: 16 GT/s</p> <p>L3 Cache: Up to 112.5MB</p>	Front I/O	<p>Power/ID/Reset Buttons</p> <p>Power/ID/Status LEDs</p> <p>(2) USB 3.0 ports</p> <p>(1) VGA port</p>
Form Factor	2U Rackmount	Storage Controller	<p>Onboard: Intel® C741</p> <p>14x SATA3 6Gb/s ports</p> <p>Optional Controller:</p> <p>Broadcom MegaRAID 9560 Series HHHL Channel Card</p> <p>Broadcom 9500 Series PCIe Gen 4.0 Tri-Mode Storage HBAs</p>
Dimensions	<p>W x H x D (inch): 17.3 x 3.4 x 30.7</p> <p>W x H x D (mm): 440 x 87.5 x 780</p>	Power Supply	<p>1+1 High efficiency redundant hot-plug</p> <p>Titanium 1600W/2000W/2600W/2700W AC PSU</p>
Chipset	Intel® C741 Series	Onboard Storage	(2) 2230 PCIE M.2 for Booting OS
Storage	<p>SKU - #1 : [12x LFF Tiered]:</p> <p>Front Storage: (12) 3.5"/2.5" hot-plug SATA/SAS/NVMe drives</p> <p>Rear Storage: (2) 2.5" hot-plug NVMe/SATA/SAS drives (optional)</p> <p>SKU - #2 : [SFF Tiered]:</p> <p>Front Storage: (16) 2.5" hot-plug SATA/SAS drive + (8) 2.5" hot-plug NVMe SSD</p> <p>Rear Storage: (2) 2.5" hot-plug NVMe drives (optional)</p> <p>SKU - #3 : [SFF 24NVMe/U.2]:</p> <p>Front Storage: (24) 2.5" hot-plug SATA/SAS/NVMe drive</p> <p>SKU - #4 : [E1.S]:</p> <p>Front Storage: (24) E1.S hot-plug NVMe drives</p>	Fan	(6) hot-swap dual rotor fans
Memory	<p>Capacity: Up to 8TB (256Gx32) of memory capacity</p> <p>Memory Type: 4800 MHz DDR5 RDIMM/LRDIMM</p> <p>Memory Size: 16G, 32G, 64G, 128G, 256G</p>	Video	<p>Integrated AST2600.</p> <p>Maximum display resolution is up to 1920x1080p 32bpp@60Hz</p>
Expansion Slot	<p>Default Configuration : [General Config]</p> <p>(2) PCIe 5.0 x16 OCP 3.0 SFF slot</p> <p>(2) PCIe 5.0 x16 FHHL + (4) PCIe 5.0 x8 FHHL slot</p> <p>Optional (2) PCIe 4.0 x16 HHHL slot</p> <p>SKU - #1 : [Dual Width GPU Config]</p> <p>(2) PCIe 5.0 x16 OCP 3.0 SFF slot</p> <p>(2) PCIe 5.0 x16 FHFL + (2) PCIe 5.0 x16 FHHL slot</p> <p>Optional (2) PCIe 4.0 x16 HHHL slot</p> <p>SKU - #2 : [Single Width GPU Config]</p> <p>(2) PCIe 5.0 x16 OCP 3.0 SFF slot</p> <p>(4) PCIe 5.0 x16 FHHL slot</p> <p>Optional (2) PCIe 4.0 x16 HHHL slot</p> <p>SKU - #3 : [All Flash Config-1]</p> <p>(2) PCIe 5.0 x16 OCP 3.0 SFF slot</p> <p>(2) PCIe 5.0 x16 FHHL slot</p> <p>SKU - #4 : [All Flash Config-2]</p> <p>(2) PCIe 5.0 x16 OCP 3.0 SFF slot</p> <p>(1) PCIe 5.0 x16 FHHL + (2) PCIe 5.0 x8 FHHL slot</p>	System Management	<p>Redfish v1.11</p> <p>IPMI v2.0 Compliant, on board "KVM over IP" support</p> <p>Orqestra (QCT System Manager) (Optional)</p>
Network Controller	<p>LOM: Dedicated (1) GbE management port</p> <p>Optional NIC: Please refer to our Compatible Component List for more information</p>	Rear I/O	<p>(1) USB 3.0, (1) Mini display port, (1) ID LED, (1) PFR/PWR LED, (1) PFR/PWR Button, (1) COM Port (micro USB type-B), (1) RJ45</p>
		Operating Environment	<p>Operating temperature: 5°C to 35°C (41°F to 95°F)</p> <p>Non-operating temperature: -40°C to 70°C (-40°F to 158°F)</p> <p>Operating relative humidity: 20% to 85%RH</p> <p>Non-operating relative humidity: 10% to 95%RH</p>
		TPM	TPM 2.0 SPI module



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