



# 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](http://www.QCT.io/wheretobuy)

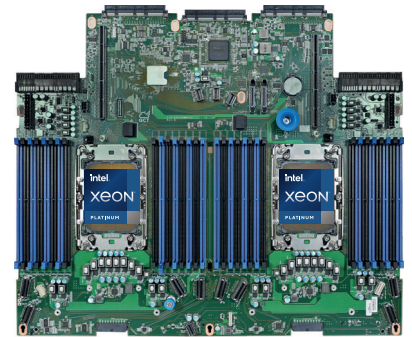


Powered by 4<sup>th</sup> Gen Intel® Xeon® Scalable Processors

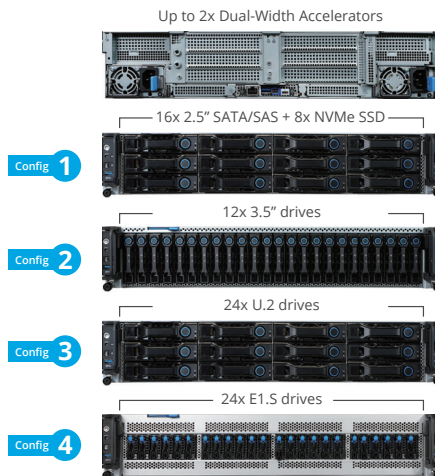


## Ultimate Compute Performance and Workload Driven Architecture

- Powered by dual 4<sup>th</sup> 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.

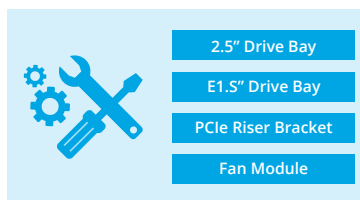


## Scalability, Flexibility, Capability, All in 2U



- 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

<b>Processor</b>	<p><b>Processor Type:</b> 4<sup>th</sup> gen Intel® Xeon Scalable processor</p> <p><b>Max. TDP Support:</b> 350W</p> <p><b>Number of Processors:</b> (2) Processors</p> <p><b>Internal Interconnect:</b> 16 GT/s</p> <p><b>L3 Cache:</b> Up to 112.5MB</p>	<b>Front I/O</b>	<p>Power/ID/Reset Buttons</p> <p>Power/ID/Status LEDs</p> <p>(2) USB 3.0 ports</p> <p>(1) VGA port</p>
<b>Form Factor</b>	2U Rackmount	<b>Storage Controller</b>	<p><b>Onboard:</b> Intel® C741</p> <p>14x SATA3 6Gb/s ports</p> <p><b>Optional Controller:</b></p> <p>Broadcom MegaRAID 9560 Series HHHL Channel Card</p> <p>Broadcom 9500 Series PCIe Gen 4.0 Tri-Mode Storage HBAs</p>
<b>Dimensions</b>	<p><b>W x H x D (inch):</b> 17.3 x 3.4 x 30.7</p> <p><b>W x H x D (mm):</b> 440 x 87.5 x 780</p>	<b>Power Supply</b>	<p>1+1 High efficiency redundant hot-plug</p> <p>Titanium 1600W/2000W/2600W/2700W AC PSU</p>
<b>Chipset</b>	Intel® C741 Series	<b>Onboard Storage</b>	(2) 2230 PCIE M.2 for Booting OS
<b>Storage</b>	<p><b>SKU - #1 :</b> [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><b>SKU - #2 :</b> [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><b>SKU - #3 :</b> [SFF 24NVMe/U.2]:</p> <p>Front Storage: (24) 2.5" hot-plug SATA/SAS/NVMe drive</p> <p><b>SKU - #4 :</b> [E1.S]:</p> <p>Front Storage: (24) E1.S hot-plug NVMe drives</p>	<b>Fan</b>	(6) hot-swap dual rotor fans
<b>Memory</b>	<p><b>Capacity:</b> Up to 8TB (256Gx32) of memory capacity</p> <p><b>Memory Type:</b> 4800 MHz DDR5 RDIMM/LRDIMM</p> <p><b>Memory Size:</b> 16G, 32G, 64G, 128G, 256G</p>	<b>Video</b>	<p>Integrated AST2600.</p> <p>Maximum display resolution is up to 1920x1080p 32bpp@60Hz</p>
<b>Expansion Slot</b>	<p><b>SKU - #1 :</b> [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><b>SKU - #2 :</b> [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><b>SKU - #3 :</b> [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><b>SKU - #4 :</b> [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><b>SKU - #5 :</b> [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>	<b>System Management</b>	<p>Redfish v1.11</p> <p>IPMI v2.0 Compliant, on board "KVM over IP" support</p> <p>Orqestra (QCT System Manager) (Optional)</p>
<b>Network Controller</b>	<p><b>LOM:</b> Dedicated (1) GbE management port</p> <p><b>Optional NIC:</b> Please refer to our Compatible Component List for more information</p>	<b>Rear I/O</b>	<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>
		<b>Operating Environment</b>	<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>
		<b>TPM</b>	TPM 2.0 SPI module



All specifications and figures are subject to change without prior notice. Actual products may look different from the photos.  
QCT, the QCT logo, Rackgo, Quanta, and the Quanta logo are trademarks or registered trademarks of Quanta Computer Inc.  
All trademarks and logos are the properties of their respective holders.  
Copyright © 2023 Quanta Computer Inc. All rights reserved.

Contact Us



www.QCT.io



Intel, the Intel logo, Xeon, and Xeon Inside are trademarks or registered trademarks of Intel Corporation in the U.S. and/or other countries.