



QuantaGrid D54X-1U

Ultimate Compute Performance and Modular Design

- Powered by 4th Gen Intel® Xeon® Scalable processors with up to 350W TDP
- PCIe 5.0 & DDR5 platform ready
- Offers 16x E1.S" NVMe flash or 12x 2.5" NVMe flash drives
- Up to 3x SW accelerators in a 1U chassis
- Supports up to 400GbE networking bandwidth in x16 PCIe 5.0 slots.
- Enhanced serviceability with tool-less, hot-swap designs
- NEBS compliant for Telco/5G data center deployments
- Liquid cooling supported
- Upgraded data protection with Intel SGX, Intel® Crypto Acceleration, and PFR (optional)
- Enhanced serviceability with tool-less, hot-swap designs

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.

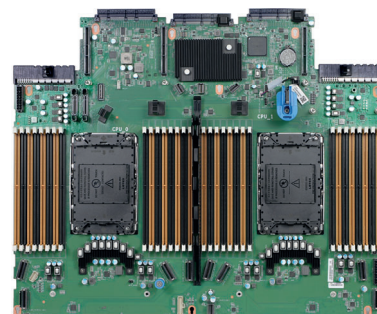
Product lines include hyper-converged and software-defined datacenter solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network.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

Found at: www.QCT.io/wheretobuy

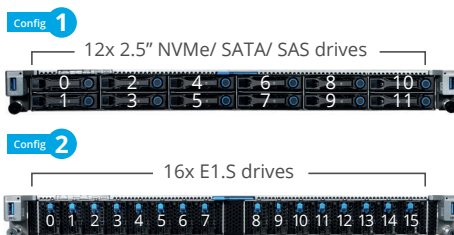


Ultimate Compute Performance and Modular Design

- 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
- Memory capacity up to 8TB with 16 channels of DDR5 memory.
- Up to 3x PCIe Gen5 expansion slots, 2x OCP3.0, and DC-SCM architecture.
- Up to 3x single-width accelerator in a 1U system.
- System optimized for cloud, enterprise, AI, HPC, network, security, and IoT workloads.

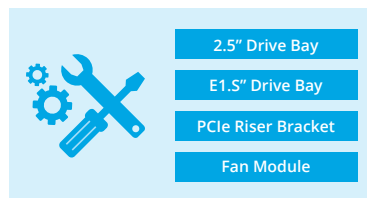


Flexible and Scalable Configurations



- Up to 5x PCIe 5.0 slots, supporting 400GbE networking bandwidth in PCIe x16 PCIe 5.0 slots in a 1U system.
- Flexible I/O options with a variety of OCP mezzanine options for diverse configurations.
- Vast variety of storage configurations, supporting 2.5" 12x NVMe/SATA/SAS SSD or E1.S" 16x NVMe SSD.
- 2x onboard PCIe M.2 2230 slot.

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 the chassis.

Easy Management with Orquestra



- Secure and dynamic data administration of data center resources with Orquestra.
- Monitor up to 5000 devices per QST (QCT Service Tool).

QuantaGrid D54X-1U Specifications

Processor	Processor Type: 4 th gen Intel® Xeon Scalable processor Max. TDP Support: 350W Number of Processors: (2) Processors Internal Interconnect: 16 GT/s L3 Cache: Up to 112.5MB
Form Factor	1U Rackmount
Dimensions	W x H x D (inch): 17.6" x 30.7" x 1.7" W x H x D (mm): 447 x 780 x 43.2
Chipset	Intel® C741 Series
Storage	Default Configuration: SATA/ SAS/ NVME support, 2.5" Hot-plug, E1.5" All Flash SKU - #1 : [2.5" SKU]: (12) 2.5" hot-plug NVMe/SATA/SAS SSD SKU - #2 : [E1.5" All Flash]: (16) E1.5" hot-plug NVMe SSD
Memory	Total Slots: 32 Capacity: Up to 8TB (256Gx32) of memory capacity Memory Type: 4800 MHz DDR5 RDIMM/LRDIMM Memory Size: 16G, 32G, 64G, 128G, 256G RDIMM/LRDIMM/3DS DIMM
Expansion Slot	Default Configuration (2) PCIe Gen5 x16 OCP 3.0 SFF (1) DC-SCM SKU - #1 : (2) PCIe Gen5 x16 FHHL (2) PCIe Gen5 x16 OCP 3.0 SFF (1) DC-SCM SKU - #2 : (3) PCIe Gen5 x16 HHHL (2) PCIe Gen5 x16 OCP 3.0 SFF (1) DC-SCM
Network Controller	LOM: Dedicated (1) GbE management port Optional NIC: Please refer to our Compatible Component List for more information
Front I/O	Front I/O: (2) USB 3.0

Storage Controller	Onboard: Intel® C741 12x SATA3 6Gb/s ports Optional Controller: Broadcom MegaRAID 9560 Series HHHL Channel Card Broadcom 9500 Series PCIe Gen 4.0 Tri-Mode Storage HBAs
Power Supply	1+1 High efficiency redundant hot-plug 800W/1600W/2000W 80 Plus Titanium
Onboard Storage	Onboard Storage: (2) 2230 PCIe M.2 on board for Booting OS
Optional Storage	(2) 2280/22110 PCIe/SATA M.2 for booting OS
Fan	(8) Dual rotor fans (15+1 redundant)
Video	Integrated AST2600 Maximum display resolution is up to 1920x1080p 32bpp@60Hz
System Management	Redfish v1.11 IPMI v2.0 Compliant, on board "KVM over IP" support Orchestra (QCT System Manager) (Optional)
Rear I/O	(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
Operating Environment	Operating temperature: 5°C to 40°C (can support 45°C under certain situation) 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
OCP Compliance	OCP Compliant

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