



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



Powered by 4th Gen Intel® Xeon® Scalable Processors

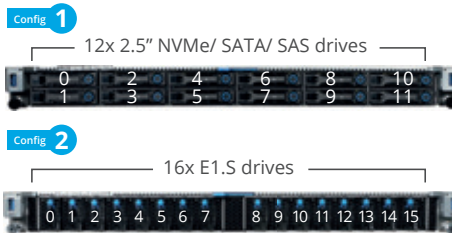


Ultimate Compute Performance and Modular Design

- 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.

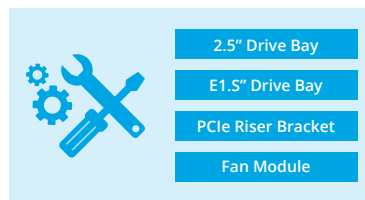


Flexible and Scalable Configurations



- 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" 16xNVMe 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 Orqestra



- Secure and dynamic data administration of data center resources with Orqestra.
- 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	Power Supply	1+1 High efficiency redundant hot-plug 800W/1600W/2000W 80 Plus Titanium
Form Factor	1U Rackmount	Onboard Storage	Onboard Storage: (2) 2230 PCIe M.2 on board for Booting OS
Dimensions	W x H x D (inch): 17.6" x 1.7" x 30.7" W x H x D (mm): 447 x 43.2 x 780	Optional Storage	(2) 2280/22110 PCIe/SATA M.2 for booting OS
Chipset	Intel® C741 Series	Fan	(8) Dual rotor fans (15+1 redundant)
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	Video	Integrated AST2600 Maximum display resolution is up to 1920x1080p 32bpp@60Hz
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	System Management	Redfish v1.11 IPMI v2.0 Compliant, on board "KVM over IP" support Orqestra (QCT System Manager) (Optional)
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	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
Network Controller	LOM: Dedicated (1) GbE management port Optional NIC: Please refer to our Compatible Component List for more information	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
Front I/O	Front I/O: (2) USB 3.0	TPM	TPM 2.0
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	OCP Compliance	OCP Compliant



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