QuantaGrid D53XQ-2U

Scale Ahead for the Workload of Tomorrow

- **3rd Gen Intel® Xeon Scalable processor Ice Lake empowered**
- **PCIe Gen 4 platform ready**
- **Support up to 200GbE with PCIe x16 networking bandwidth**
- **Upgrade data protection with Intel SGX, Intel® Crypto Acceleration, and PRF (optional)**
- **Enhanced serviceability with tool-less, hot-swap designs**

Found at: www.QCT.io/wheretobuy
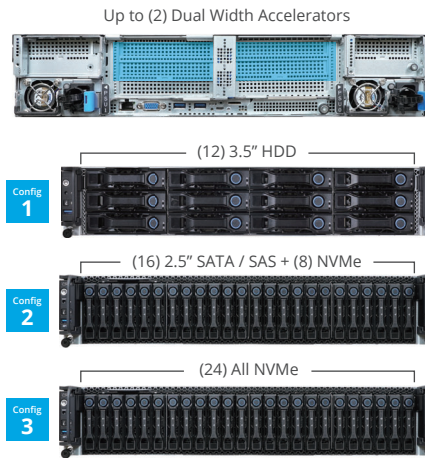

Powered by
3rd gen Intel® Xeon®
Scalable Processors

Ultimate Compute Performance and Security Architecture

- 3rd Gen Intel Xeon Scalable Processor Ice Lake based dual socket platform.
- Up to 3x UPI at 11.2 GT/sec CPU interconnect speed.
- Advance system cooling support up to 270W CPU TDP per socket.
- Memory capacity up to 8TB with 8 channel DDR4 memory and 12TB with 2nd Gen Intel® Optane™ PMem 200 Series Barlow Pass.
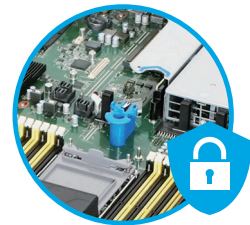

Scalability, Flexibility, Capability, All in 2U

Up to (2) Dual Width Accelerators

Config 1 — (12) 3.5" HDD

Config 2 — (16) 2.5" SATA / SAS + (8) NVMe
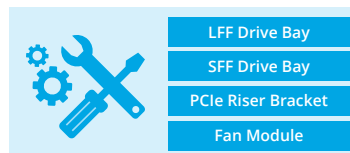
Config 3 — (24) All NVMe

- Flexible SKU options from 12x 3.5" drive to 24x 2.5" /U.2 drive with PCIe Gen 4
- Optional rear NVMe as booting device (Intel VMD supported), or high speed NIC with optional HHHL slots
- 24x PCIe Gen 4 NVMe drives. For high performance hot tier storage, HPC and enterprise workloads
- Built-in AI acceleration: support up to 2x dual-width accelerators in 2U systems

Enhanced Security

- Chassis intrusion triggered when top cover removed while AC/DC on, to alter and log any possible breach to your QCT servers.

Quick Deployment with Great Serviceability

- LFF Drive Bay
- SFF Drive Bay
- PCIe Riser Bracket
- Fan Module

- Tool-less, hot-swap designs for drive trays, riser brackets and fan modules.
- Auto back-up BMC event logs in MicroSD without opening chassis.
- Easy service with OCP3.0 pull-tab & ejector without opening chassis.

Easy Management

- Secure and dynamic data administration of data center resources with Orqestra (QCT System Manager), featuring redfish v1.8.x.
- Monitor up to 5000 devices per Orqestra module.

QuantaGrid D53XQ-2U Specifications

Processor	**Processor Type:** 3rd gen Intel® Xeon Scalable processor **Max. TDP Support:** 270W **Number of Processors:** (2) per node **Internal Interconnect:** 11.2GT/s **L3 Cache:** Up to 57MB
Form Factor	2U Rackmount
Dimensions	W x H x D (inch): 17.3 x 3.4 x 30.7 W x H x D (mm): 440 x 87.5 x 780
Chipset	Intel® C621A Series
Storage	**Default Configuration**: 2.5" Hot-plug, 3.5" Hot-plug, SATA/ SAS/ NVME support

SKU - #1 [LFF SATA/SAS]:	SKU - #2 [LFF Tiered]:	SKU - #3 [SFF Passthrough]:	SKU - #4 [SFF Expander]:	SKU - #5 [SFF All Flash]:
Front Storage: (12) 3.5"/ 2.5" hot-plug SATA/ SAS drive	**Front Storage:** (4) 3.5"/ 2.5" hot-plug SATA/SAS + (8) 2.5" hot-plug NVMe/ SATA/ SAS drive	**Front Storage:** (16) 2.5" hot-plug SATA/SAS + (8) 2.5" hot-plug NVMe SSD	**Front Storage:** (16) 2.5" hot-plug SATA/SAS + (8) 2.5" hot-plug NVMe/ SATA/ SAS drive	**Front Storage:** (24) Hot-plug NVMe SSD
Optional Rear Storage: (2) 2.5" hot-plug NVMe/ SATA/ SAS drive	**Optional Rear Storage:** (2) 2.5" hot-plug NVMe/ SATA/ SAS drive	**Optional Rear Storage:** (2) Hot-plug NVMe SSD	**Optional Rear Storage:** (2) 2.5" hot-plug NVMe/ SATA/ SAS drive	**Optional Rear Storage:** (2) Hot-plug NVMe SSD

Memory	**Total Slots:** 32 **Capacity:** Up to 8TB DIMM Up to 12TB DIMM+PMem (200 series) **Memory Type:** 2933 MHz DDR4 RIMM/LRDIMM 3200 MHz DDR4 RDIMM/LRDIMM - Intel® Optane™ PMem 200 series (BPS) 128, 256, 512GB supported on selected CPU SKUs **Memory Size:** 16G, 32G, 64G, 128G, 256G RDIMM/LRDIMM/3DS DIMM

Expansion Slot	SKU - #1 [General Config]:	SKU - #2 [Dual Width GPU Config]:	SKU - #3 [Single Width GPU Config]:
	(1) PCIe 4.0 x8 SAS mezzanine slot (1) PCIe 4.0 x8 OCP 3.0 SFF mezzanine slot (2) PCIe 4.0 x16 FHHL + (4) PCIe 4.0 x8 FHHL slot Optional (2) PCIe 4.0 x16 HHHL slot	(1) PCIe 4.0 x8 SAS mezzanine slot (1) PCIe 4.0 x8 OCP 3.0 SFF mezzanine slot (2) PCIe 4.0 x16 FHFL + (2) PCIe 4.0 x16 FHHL slot Optional (2) PCIe 4.0 x16 HHHL slot	(1) PCIe 4.0 x8 SAS mezzanine slot (1) PCIe 4.0 x8 OCP 3.0 SFF mezzanine slot (4) PCIe 4.0 x16 FHFL slot Optional (2) PCIe 4.0 x16 HHHL slot

Network Controller	**LOM:** Dedicated (1) GbE management port **Optional NIC:** Please refer to our Compatible Component List for more information
Front I/O	Power/ID/Reset Buttons Power/ID/Status LEDs (2) USB ports (1) VGA port (Display priority: first; one device one time)
Storage Controller	**Onboard:** Intel® 621A 14x SATA3 6Gb/s ports SATA RAID 0, 1 **Optional Controller:** Quanta LSI® PCIe 4.0 3816 12Gb/s SAS mezzanine Quanta LSI® PCIe 4.0 3916 12Gb/s SAS mezzanine (RAID 0,1,5,6,10,50,60) Intel® VROC upgrade module for PCIe SSD (Please refer to the Compatible Component List for more options)

Power Supply	1+1 High efficiency redundant hot-plug Platinum/Titanium 1200W/1600W/2200W AC PSU
Onboard Storage	(2) 2230 PCIe M.2 onboard for booting OS
Fan	(6) Dual rotor fans (11+1 redundant)
System Management	Redfish v1.9 IPMI v2.0 compliant, onboard "KVM over IP" support
Rear I/O	(2) USB 3.0, (1) RS232 serial port, (1) VGA port, (1) Micro USB (COM port), (1) ID LED, (1) PFR LED, (1) MicroSD
Operating Environment	Operating temperature: 5°C to 35°C (41°F to 95°F) Non-operating temperature: -40°C to 70°C (-40°F to 158°F) Operating relative humidity: 20% to 85%RH Non-operating relative humidity: 10% to 95%RH
TPM	TPM 2.0 SPI module

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.

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