

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





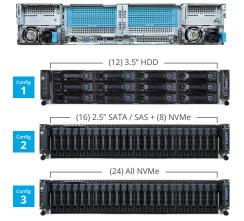
Ultimate Compute Performance and Security Architecture

- 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



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



- 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.

Found at: www.QCT.io/wheretobuy



Powered by 3rd gen Intel® Xeon® Scalable Processors

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 Type: 3rd gen Intel® Xeon Scalable processor **Processor** Max. TDP Support: 270W Number of Processors: (2) per node Internal Interconnect: 11.2GT/s L3 Cache: Up to 60MB **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 SKU - #2 SKU - #3 SKU - #4 SKU - #5 [LFF SATA/SAS]: [LFF Tiered]: [SFF Expander]: [SFF All Flash]: [SFF Passthrough]: Front Storage: Front Storage: Front Storage: Front Storage: Front Storage: (4) 3.5"/ 2.5" hot-plug SATA/SAS (12) 3.5"/ 2.5" hot-plug SATA/ (16) 2.5" hot-plug SATA/SAS (16) 2.5" hot-plug SATA/SAS (24) Hot-plug NVMe SSD SAS drive + (8) 2.5" hot-plug NVMe/ SATA/ + (8) 2.5" hot-plug NVMe SSD + (8) 2.5" hot-plug NVMe/ SAS drive SATA/ SAS drive **Optional Rear Storage:** Optional Rear Storage: Optional Rear Storage: **Optional Rear Storage:** Optional Rear Storage: (2) 2.5" hot-plug NVMe/ (2) 2.5" hot-plug NVMe/ SATA/ (2) Hot-plug NVMe SSD (2) 2.5" hot-plug NVMe/ SATA/ (2) Hot-plug NVMe SSD SATA/ SAS drive SAS drive SAS drive 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]: [Dual Width GPU Config]: [Single Width GPU Config]: (1) PCIe 4.0 x8 SAS mezzanine slot (1) PCIe 4.0 x8 SAS mezzanine slot (1) PCIe 4.0 x8 SAS mezzanine slot (1) PCle 4.0 x8 OCP 3.0 SFF mezzanine slot (1) PCIe 4.0 x8 OCP 3.0 SFF 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 (2) PCIe 4.0 x16 FHFL + (2) PCIe 4.0 x16 FHHL slot (4) PCIe 4.0 x16 FHFL slot Optional (2) PCIe 4.0 x16 HHHL slot Optional (2) PCIe 4.0 x16 HHHL slot Optional (2) PCIe 4.0 x16 HHHL slot Network LOM: Dedicated (1) GbE management port Controller 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 Onboard: Controller 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 PS
Onboard Storage	(2) 2230 PCIe M.2 onboard for booting OS
Fan	(6) Dual rotor fans (11+1 redundant)
System	Redfish v1.9
Management	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
ТРМ	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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