QuantaGrid D52BQ-2U 3UPI

NUMA-Balanced Design to Scale Along with Your Business

- **Balanced Compute and Storage Solution in 2U Form Factor**
- **Flexible and Scalable I/O options**
- **Tool-less HDD/SSD Tray and PCIe Riser Module**
- **Quick Deployment and Maintenance**

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.
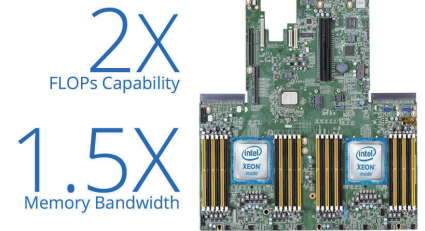
Found at: www.QCT.io/wheretobuy

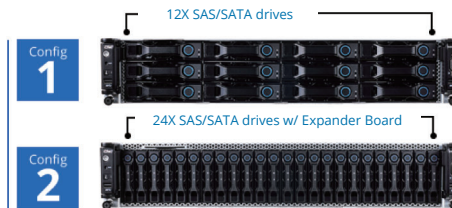Powered by Intel®
Xeon® Scalable Processors

Rear view

Unleashing Computing Performance

- 3x UPI socket interconnect, 1.5x memory bandwidth and 2x FLOPs peak performance capability with Intel® Xeon® Processor Scalable Family.
- Up to 112 vCPUs per server and 3.9x higher virtualized throughput compared to previous platforms based on the Intel® Xeon® processor E5.
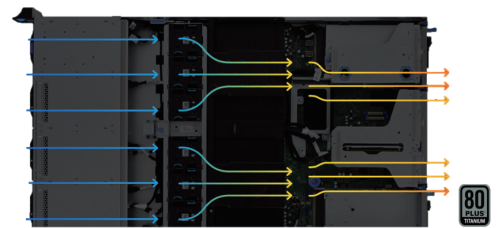
2X FLOPs Capability
1.5X Memory Bandwidth

Flexible and Scalable Configurations for Hyperconverged Datacenters

Config 1 — 12X SAS/SATA drives
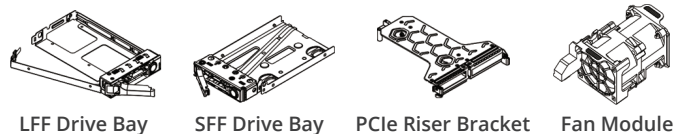Config 2 — 24X SAS/SATA drives w/ Expander Board

- Up to 7 PCIe expansion slots in a 2U chassis.
- Flexible I/O options, including a variety of SAS mezz and OCP NIC/ PHY mezz options, so users avoid the extra expense of unnecessary LOM or RAID controllers.
- Multiple storage configurations, including LFF and SFF drives support.
- Optional SATA M.2 SSD for OS installation.

Sophisticated Power and Thermal Design to Avoid Unnecessary OPEX

- Minimized power consumption during system idle mode.
- Support for the industry's most efficient 80 Plus Titanium PSU options.
- Precise power and airflow distribution to ensure performance stability under all levels of system loading.

Quick Deployment and Maintenance.

LFF Drive Bay SFF Drive Bay PCIe Riser Bracket Fan Module

- Tool-less HDD, fan, PCIe card exchange.
- Optional MicroSD card to record system health logs without opening the chassis even when powered-off.

QuantaGrid D52BQ-2U Specifications

Processor	
	Processor Type: Intel® Xeon® Processor Scalable Family
	Max. TDP Support: 205W (Refer to CCL)
	Number of Processors: 2 Processors
	Internal Interconnect: 9.6/10.4 GT/s
Form Factor	2U
Dimensions	W x H x D (inch): 17.6 x 3.4 x 30.7
	W x H x D (mm): 447 x 87.5 x 780
Chipset	Intel® C621
Storage	**Default Configuration**: 2.5" Hot-plug, 3.5" Hot-plug

SKU - #1	*SKU - #2*
[12x LFF SATA/SAS SKU]:	**[24x SFF Expander SKU]:**
Front Storage: (12) 3.5"/2.5" hot-plug SATA/SAS	Front Storage: (24) 2.5" hot-plug SATA/SAS
Rear Storage: (2) 2.5" hot-plug SATA/SAS (optional)	Rear Storage: (2) 2.5" hot-plug SATA/SAS (optional)

Memory	
	Total Slots: 24
	Capacity: Up to 3TB (128Gx24) of memory for RDIMM/LRDIMM
	Memory Type: 2666 MHz DDR4 RDIMM
	Memory Size: 64GB, 32GB, 16GB, 8GB RDIMM (Refer to CCL)

Expansion Slot

SKU - #1	*SKU - #2*
[12x LFF SATA/SAS SKU]:	**[24x SFF Expander SKU]:**
(1) PCIe Gen3 x 8 SAS mezzanine slot	(1) PCIe Gen3 x 8 SAS mezzanine slot
(1) PCIe Gen3 x 8 OCP 2.0 mezzanine slot or PHY card	(1) PCIe Gen3 x 8 OCP 2.0 mezzanine slot or PHY card
(2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL	(2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL
(1) PCIe Gen3 x16 FHHL	(1) PCIe Gen3 x16 FHHL
(2) PCIe Gen3 x16 LP MD-2	(2) PCIe Gen3 x16 LP MD-2

Network Controller	**LOM:** Dedicated (1) GbE management port	**Fan**	(6) dual rotor fans (11+1 redundant)
	Optional NIC:	**Video**	Integrated ASPEED AST2500 8MB DDR4 video memory
	Quanta Intel® X527 10G SFP+ dual/quad-port OCP PHY mezzanine or	**System Management**	Redfish v1.1
	Quanta Intel® X557 10G RJ45 dual/quad-port OCP PHY mezzanine or		IPMI v2.0 Compliant, on board "KVM over IP" support
	Quanta Intel® I357 1G RJ45 dual/quad-port OCP PHY mezzanine or	**Rear I/O**	(2) USB 3.0 ports
	(more options refer to the CCL)		(1) VGA port
Front I/O	Power/ID/Reset Buttons		(Display Priority: Second; one device one time)
	Power/ID/Status LEDs		(1) RS232 serial port
	(2) USB ports		(1) GbE RJ45 management port
	(1) VGA port (Display Priority: First; one device one time)		(1) ID LED
Storage Controller	**Onboard:**		(1) MicroSD slot
	Intel® 621	**Operating Environment**	Operating temperature: 5°C to 40°C
	14x SATA 6Gb/s ports		Non-operating temperature: -40°C to 70°C
	SATA RAID 0, 1, 10		Operating relative humidity: 50% to 85%RH
	Optional Controller:		Non-operating relative humidity: 10% to 95%RH
	Quanta LSI® 3216 12Gb/s SAS mezzanine	**TPM**	TPM 1.2/2.0 SPI module
	Quanta LSI® 3516 12Gb/s SAS mezzanine (RAID 0,1,5,6,10,50,60)	**Weight (Max. Configuration)**	35 KG
	(2) PCIe M.2 support with M.2 adapter for boot optimization (option)		
	(2) SATA M.2 support for boot optimization		
Power Supply	1+1 High efficiency redundant hot-plug Platinum/Titanium 800W/1200W PSU, -48VDC PSU (default with one PSU only; detailed PSU options please refer to "ordering info" or "CCL")		