



QuantaGrid D52BQ-2U

Scale Along with Your Business

- **Ultimate Compute and Storage Density**
- **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.

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Intel Inside®. New Possibilities Outside.



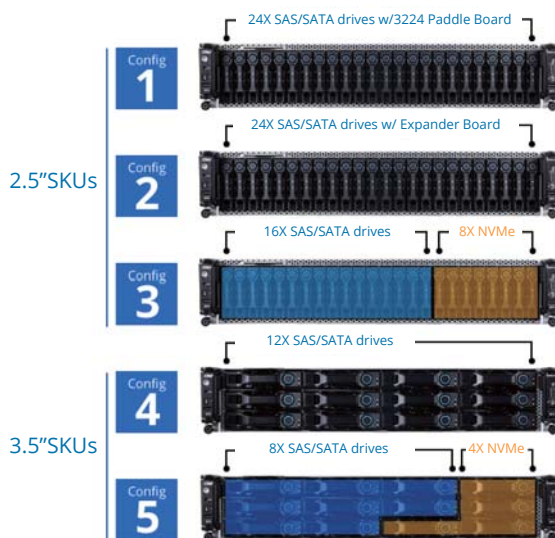
Rear view

Unleashing Computing Performance

- Faster 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.



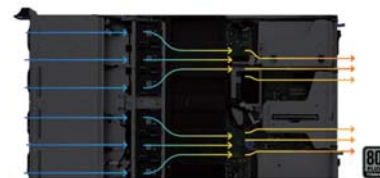
Flexible and Scalable Configurations for Hyperconverged Datacenters



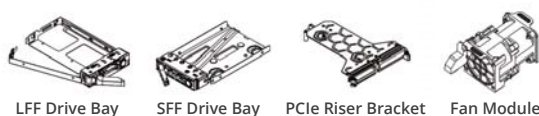
- Up to 10 PCIe expansion slots in a 2U chassis
- Flexible I/O options, including a variety of SAS mezz and OCP NIC/ PHY mezz options, so users avoid the extra expense of unnecessary LOM or RAID controllers.
- Multiple storage configurations, including optional NVMe tier, HBA pass-through, legacy MegaRAID with cache backup solutions tailored for diversified software-defined workloads.
- Optional SATADOM or 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.



- Tool-less HDD, fan, PCIe card exchange
- Optional MicroSD card to record system health logs without opening the chassis even when powered-off
- Intuitive data center management with QCT System Manager (QSM) via integration with industry standard RESTful API and Intel® Rack Scale Design (RSD).



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): 17.3 x 3.4 x 30.7 W x H x D (mm): 440 x 87.5 x 780				
Chipset	Intel® C621, Intel® C624				
Storage	Default Configuration: NVMe support, 2.5" Hot-plug, 3.5" Hot-plug				
SKU - #1[12x LFF SATA/SAS SKU]: Front Storage: (12) 3.5"/2.5" hot-plug SATA/SAS Rear Storage: (2) 2.5" hot-plug NVMe/SATA/SAS (optional) SKU - #2[12x LFF Tiered SKU]: Front Storage: (8) 3.5"/2.5" hot-plug SATA/SAS + (4) 2.5" hot-plug NVMe/SATA/SAS SSD Rear Storage: (2) 2.5" hot-plug SATA/SAS (optional) SKU - #3[24x SFF PtP SKU]: Front Storage: (16) 2.5" hot-plug SATA/SAS + (8) 2.5" hot-plug NVMe SSD Rear Storage: (2) 2.5" hot-plug SATA (optional) SKU - #4[24x SFF SAS3224 Paddle SKU]: Front Storage: (24) 2.5" hot-plug SATA/SAS w/ SAS 3224 Rear Storage: (2) 2.5" hot-plug NVMe/SATA (optional) SKU - #5[24x SFF Expander SKU]: Option 1: Front Storage: (24) 2.5" hot-plug SATA/SAS Rear Storage: (2) 2.5" hot-plug NVMe (optional) Option 2: Front Storage: (24) 2.5" hot-plug SATA/SAS 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[12x LFF SATA/SAS SKU]: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2 SKU - #2[12x LFF Tiered SKU]: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x 8 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2 SKU - #3[24x SFF PtP SKU]: (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 LP MD-2 (must be with SAS add-on card) SKU - #4[24x SFF SAS3224 Paddle SKU]: (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2 SKU - #5[24x SFF Expander SKU]: Option 1: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2 Option 2: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (3) PCIe Gen3 x 8 LP MD-2 or (1) PCIe Gen3 x16 + x8 LP MD-2				
Network Controller	LOM: Dedicated (1) GbE management port Optional NIC: Quanta Intel® X527 10G SFP+ dual/quad-port OCP PHY mezzanine or Quanta Intel® X557 10G RJ45 dual/quad-port OCP PHY mezzanine or Quanta Intel® I357 1G RJ45 dual/quad-port OCP PHY mezzanine or (more options refer to the CCL)				
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® 621/ 624: 14x SATA 6Gb/s ports SATA RAID 0, 1, 10 Optional Controller: Quanta LSI® 3216 12Gb/s SAS mezzanine Quanta LSI® 3516 12Gb/s SAS mezzanine (RAID 0,1,5,6,10,50,60) Intel® VROC Upgrade Module for PCIe SSD (2) PCIe M.2 support with M.2 adapter for boot optimization (option) (2) SATA M.2 support with M.2 adapter for boot optimization (option)				
Power Supply	1+1 High efficiency redundant hot-plug Platinum/Titanium 800W/1200W PSU (detailed PSU options please refer to "ordering info" or "CCL")				
			Onboard Storage	(2) SATADOM (option)	
			Fan	(6) dual rotor fans (1+1 redundant)	
			Video	Integrated ASPEED AST2500 8MB DDR4 video memory	
			System Management	Redfish v1.1 IPMI v2.0 Compliant, on board "KVM over IP" support QCT System Manager (QSM) v1.8 (Optional)	
			Rear I/O	(2) USB 3.0 ports (1) VGA port (Display Priority: Second; one device one time) (1) RS232 serial port (1) GbE RJ45 management port (1) ID LED (1) MicroSD slot	
			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: 50% to 85%RH Non-operating relative humidity: 10% to 90%RH	
			TPM	TPM 1.2/2.0 SPI module	
			Weight (Max. Configuration)	35 KG	



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United States
 QCT LLC., Silicon Valley office
 1010 Rincon Circle, San Jose, CA 95131
 TOLL-FREE: 1-855-QCT-MUST
 TEL: +1-510-270-6111
 FAX: +1-510-270-6161
 Support: +1-510-270-6216

Japan
 Quanta Cloud Technology Japan 株式会社
 日本国東京都港区芝大門二丁目五番八号
 牧田ビル3階
 TEL: +81-3-5777-0818
 FAX: +81-3-5777-0819

Germany
 Quanta Cloud Technology Germany GmbH
 Hamborner Str. 55, 40472 Düsseldorf
 TEL: +49-2405-4083-1300

Other regions
 Quanta Cloud Technology
 No. 211 Wenhua 2nd Rd., Guishan Dist.,
 Taoyuan City 33377, Taiwan
 TEL: +886-3-327-2345
 FAX: +886-3-397-4770



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