



# 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.

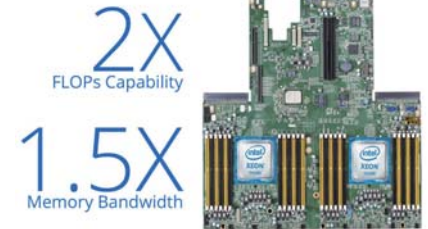
Found at: [www.QCT.io/wheretobuy](http://www.QCT.io/wheretobuy)



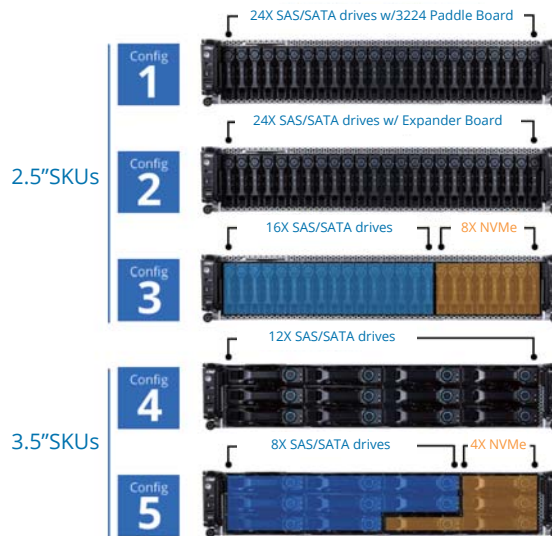
Intel Inside®. New Possibilities Outside.

### 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



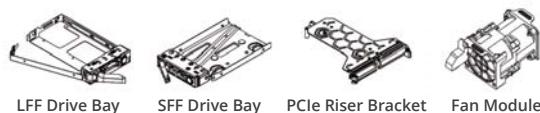
- Up to 10 PCIe expansion slots in a 2U chassis
- Flexible I/O options, including a variety of SAS mezz and OCP NIC/ PHY mezz options, so users avoid the extra expense of unnecessary LOM or RAID controllers.
- Multiple storage configurations, including optional NVMe tier, HBA pass-through, legacy MegaRAID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



<b>Processor</b>	<b>Processor Type:</b> Intel® Xeon® Processor Scalable Family <b>Max. TDP Support:</b> 205W (Refer to CCL) <b>Number of Processors:</b> 2 Processors <b>Internal Interconnect:</b> 9.6/10.4 GT/s														
<b>Form Factor</b>	2U														
<b>Dimensions</b>	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														
<b>Chipset</b>	Intel® C621, Intel® C624														
<b>Storage</b>	<b>Default Configuration:</b> NVMe support, 2.5" Hot-plug, 3.5" Hot-plug														
<b>SKU - #1</b> [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)	<b>SKU - #2</b> [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)	<b>SKU - #3</b> [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)	<b>SKU - #4</b> [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)	<b>SKU - #5</b> [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)											
<b>Memory</b>	<b>Total Slots:</b> 24 <b>Capacity:</b> Up to 3TB (128Gx24) of memory for RDIMM/LRDIMM <b>Memory Type:</b> 2666 MHz DDR4 RDIMM <b>Memory Size:</b> 64GB, 32GB, 16GB, 8GB RDIMM (Refer to CCL)														
<b>Expansion Slot</b>	<table border="1"> <thead> <tr> <th>SKU - #1</th> <th>SKU - #2</th> <th>SKU - #3</th> <th>SKU - #4</th> <th>SKU - #5</th> </tr> </thead> <tbody> <tr> <td><b>[12x LFF SATA/SAS SKU]:</b> (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</td> <td><b>[12x LFF Tiered SKU]:</b> (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</td> <td><b>[24x SFF PtP SKU]:</b> (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)</td> <td><b>[24x SFF SAS3224 Paddle SKU]:</b> (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</td> <td><b>[24x SFF Expander SKU]:</b> 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</td> </tr> </tbody> </table>					SKU - #1	SKU - #2	SKU - #3	SKU - #4	SKU - #5	<b>[12x LFF SATA/SAS SKU]:</b> (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	<b>[12x LFF Tiered SKU]:</b> (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	<b>[24x SFF PtP SKU]:</b> (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)	<b>[24x SFF SAS3224 Paddle SKU]:</b> (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	<b>[24x SFF Expander SKU]:</b> 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
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<b>Network Controller</b>	<b>LOM:</b> Dedicated (1) GbE management port <b>Optional NIC:</b> 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)														
<b>Front I/O</b>	Power/ID/Reset Buttons Power/ID/Status LEDs (2) USB ports (1) VGA port (Display Priority: First; one device one time)														
<b>Storage Controller</b>	<b>Onboard:</b> Intel® 621/ 624: 14x SATA 6Gb/s ports SATA RAID 0, 1, 10 <b>Optional Controller:</b> 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														
<b>Power Supply</b>	1+1 High efficiency redundant hot-plug Platinum/Titanium 800W/1200W PSU (detailed PSU options please refer to "ordering info" or "CCL")														
	<b>Onboard Storage</b>		(2) SATADOM (option)												
	<b>Fan</b>		(6) dual rotor fans (11+1 redundant)												
	<b>Video</b>		Integrated ASPEED AST2500 8MB DDR4 video memory												
	<b>System Management</b>		Redfish v2.1 IPMI v2.0 Compliant, on board "KVM over IP" support QCT System Manager (QSM) v1.8 (Optional)												
	<b>Rear I/O</b>		(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												
	<b>Operating Environment</b>		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												
	<b>TPM</b>		TPM 1.2/2.0 SPI module												
	<b>Weight (Max. Configuration)</b>		35 KG												



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