QuantaGrid D52BM-2U

Ultimate Compute and Storage Density 2-Socket Server

- **Ideal for Software-Defined Storage with Ultra Density Designed to Maximize Data Center Efficiency**

- **Flexible and Scalable I/O options**

- **Tool-less HDD/SDD Tray and PCIe Riser Module**

- **Quick Deployment and Maintenance**

About QCT

Quanta Cloud Technology (QCT) is a global data center solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation data center 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 data center 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

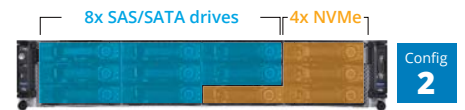Intel Inside®. New Possibilities Outside.

Rear view

Ideal for Software-Defined Storage with Ultra Density Designed

- High performance storage server, supporting up to 205W TDP processors.

- Support for up to 16x high capacity LFF HDD bays and 2x 7mm SATA SSDs for boot or caching in 2U server.

- Optimized 2U Storage Server for Tiering Hot and Cold Data.

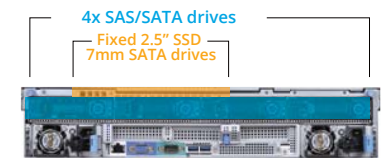12x SAS/SATA drives — Front View — Config 1

8x SAS/SATA drives — 4x NVMe — Config 2
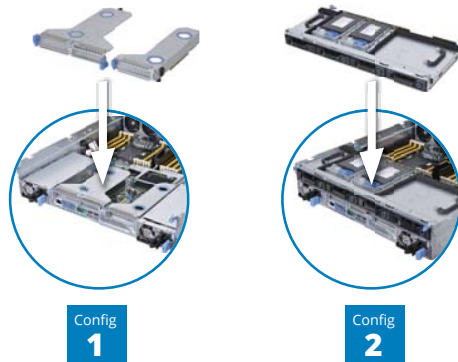
4x SAS/SATA drives — Fixed 2.5" SSD 7mm SATA drives — Rear View

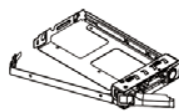## Flexible Configurations for Storage server

Config 1

Config 2

- Up to 5 PCIe expansion slots for Flexible I/O options, including a variety of SAS mezz and OCP NIC/ PHY mezz options.

- Various configurations to include NVMe SSD for Software-defined storage workload.

- Optional SATADOM, 2.5" SATA SSD or M.2 SSD for OS installation.
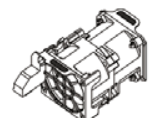
EASY NO HASSLE NO TOOLS

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

Quick Deployment and Maintenance

- Tool-less HDDs, fans, and PCIe card exchange.

- Optional MicroSD card to record system health logs without opening the chassis even when powered-off.

QuantaGrid D52BM-2U Specifications

Processor	**Processor Type:** Intel® Xeon® Processor Scalable Family **Max. TDP Support:** 205W **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, 3.5" Hot-plug, 2.5" Fixed, 2.5" Hot-plug

SKU - #1 [LFF SATA/SAS SKU]:
Front Storage: (12) 3.5"/2.5" hot-plug SATA/SAS
Rear Storage: (4) 3.5"/2.5" hot-plug SATA/SAS + (2) 7mm fixed SATA SSD

SKU - #2 [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: (4) 3.5"/2.5" hot-plug SATA/SAS + (2) 7mm fixed SATA SSD

Memory

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

Expansion Slot

SKU - #1
[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 x16 LP MD-2
(1) PCIe Gen3 x16 LP MD-2

SKU - #2
[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 x16 LP MD-2
(2) PCIe Gen3 x16 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:
2x 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 (11+1 redundant)

Video Integrated ASPEED AST2500 8MB DDR4 video memory

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: 10°C to 35°C (can support 40°C under certain situation)
Non-operating temperature: -40°C to 70°C
Operating relative humidity: 20% to 85%RH
Non-operating relative humidity: 10% to 95%RH

TPM TPM 1.2/2.0 SPI module

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New Possibilities Outside.

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