



QuantaGrid D52B-1U

Defying Physical Limitations

- **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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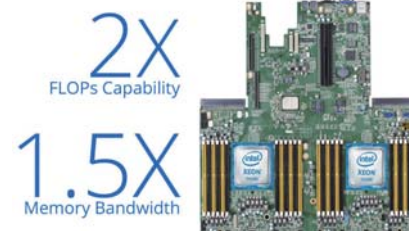
Intel Inside®. New Possibilities Outside.



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.



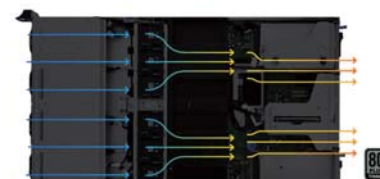
Flexible and Scalable Configurations for Hyperconverged Datacenters



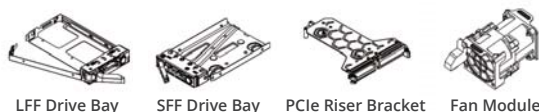
- Up to 5 PCIe expansion slots in a 1U chassis
- Flexible I/O options, including a variety of SAS mezz and OCP NIC/ PHY mezz options, so users avoid the extra expense of unnecessary LOM or RAID controllers.
- Three different kinds of storage configurations, including LFF+SSD Hybrid, SFF (SATA+U.2) Tiered and the industry's first 12x U.2 All Flash, 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 D52B-1U Specifications

| | | | |
|--|---|---|---|
| Processor | Processor Type: Intel® Xeon® Processor Scalable Family Max. TDP Support: 165W (Refer to CCL) Number of Processors: 2 Processors Internal Interconnect: 9.6/10.4 GT/s | | |
| Form Factor | 1U | | |
| Dimensions | W x H x D (inch): 17.3 x 1.7 x 30.7 W x H x D (mm): 440 x 43.2 x 780 | | |
| Chipset | Intel® C621, Intel® C624 | | |
| Storage | Default Configuration: NVMe support, 2.5" Hot-plug, 3.5" Hot-plug | | |
| SKU - #1 [All Flash SKU]: (12) 2.5" hot-plug SATA/ NVMe SSD | SKU - #2 [SFF Tiered SKU]: (8) 2.5" hot-plug SATA/SAS drives + (4) 2.5" hot-plug NVMe/SATA/SAS drives | SKU - #3 [Hybrid SKU]: Option 1 : (4) 3.5"/2.5" hot-plug SATA/SAS drives, (4) 9mm NVMe/SATA/SAS drives (optional) Option 2 : (4) 3.5"/2.5" hot-plug SATA/SAS drives, (4) 9mm SATA/SAS drives (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 [All Flash SKU]: (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x8 FHHL | SKU - #2 [SFF Tiered SKU]: Option 1 (3PCIe) (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 x 8 LP MD-2 Option 2 (2PCIe) (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 (1) PCIe Gen3 x16 LP MD-2 | SKU - #3 [Hybrid SKU]: Option 1 (3PCIe) (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 x 8 LP MD-2 Option 2 (2PCIe) (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 FHHL (1) 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 | (2) USB 3.0 ports Power/ID/Reset Buttons Power/ID/Status LEDs | | |
| 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 500W/800W* PSU (detailed PSU options please refer to "ordering info" or "CCL") | | |
| Onboard Storage | (2) SATADOM (option) | | |
| Fan | (8) dual rotor fans (15+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 (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: 20% to 85%RH Non-operating relative humidity: 10% to 95%RH | | |
| TPM | TPM 1.2/2.0 SPI module | | |
| Weight (Max. Configuration) | 20.7 KG | | |



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