

QuantaGrid D51B-2U

Full-Featured Energy Efficient 2-Socket Server



Rear view

QuantaGrid D51B-2U is a general-purpose rackmount server designed for optimal performance and power efficiency. It supports up to 1.5 TB highly scalable memory capacity and up to 12 x 3.5" or 24 x 2.5" hot-swappable HDD for complex and demanding workloads, such as mail-server, database, e-commerce and high-performance computing (HPC).

Greener and More Powerful

Powered by the Intel® Xeon® processor E5-2600 v3 product family and DDR4 memory technology, the QuantaGrid D51B-2U allows owners to upgrade computing performance without overextending power consumption. With QCT's enhanced thermal design, the server can operate under ambient temperatures as high as 40°C. This allows owners to save unnecessary costs associated with datacenter cooling needs and achieve higher data center infrastructure efficiency (DCIE) value.

Full-Featured Design for Demanding Storage and Computing Workload

With 24 dual in-line memory (DIMM) slots, QuantaGrid D51B-2U offers non-latency support to virtualization environments that require the maximum memory capacity. In addition to 12 x 3.5" or 24 x 2.5" front-access, hot-swappable HDDs, the D51B-2U also has two optional 2.5" PCIe (NVMe) SSD bays and two optional 2.5" SATA HDD bays on the rear side for extra caching or OS support without sacrificing storage capacity.

- Ideal for Mail-Server, Database, E-Commerce and High-Performance Computing (HPC)
- Greener and More Powerful
- Full-Featured Design for Demanding Storage and Computing Workload
- Flexible and Scalable I/O Options



Flexible and Scalable I/O Options

QuantaGrid D51B-2U provides flexible I/O scalability for today's diverse data center application requirements. It features OCP LAN mezzanine card solutions in addition to dual GbE or 10GbE LAN on Motherboard (LoM). With various controller vendors and different, speed and technology, customers can choose from GbE to 56GbE bandwidth, copper to fiber-optic cabling, basic Ethernet function to FCoE and ISCSI SAN connectivity. The on-board SAS controller offers multiple QCT SAS mezzanine card options, with different RAID levels, and data transfer bandwidth, so customers can tailor the SAS controller for specific application needs.

About QCT

QCT (Quanta Cloud Technology) is a global datacenter solution provider extending the power of hyperscale datacenter design in standard and open SKUs to all datacenter customers.

Product lines include servers, storage, network switches, integrated rack systems and cloud solutions, all delivering hyperscale efficiency, scalability, reliability, manageability, serviceability and optimized performance for each workload.

QCT offers a full spectrum of datacenter products and services from engineering, integration and optimization to global supply chain support, all under one roof.

The parent of QCT is Quanta Computer Inc., a Fortune Global 500 technology engineering and manufacturing company.

<http://www.QuantaQCT.com>

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Get a quote: www.QuantaQCT.com

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QCT authorized partner

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Processor	Processor Type: Intel® Xeon® processor E5-2600 v3 product family Max. TDP Support: 145W Number of Processors: 2 Internal Interconnect: 6.4 / 8.0/ 9.6 GT/s L3 Cache: Up to 45MB
Chipset	Intel® C610
Memory	Total Slots: 24 Capacity: Up to 768GB RDIMM Up to 1536GB LRDIMM Memory Type: 2133 MHz DDR4 RDIMM/ LRDIMM Memory Size: 32GB, 16GB, 8GB RDIMM 64GB, 32GB LRDIMM
Network Controller	LOM: Option 1: Intel® I350 dual-port 1 GbE Dedicated 1 GbE management port Option 2: Intel® X540 dual-port 10GbE BASE-T Dedicated 1 GbE management port
Storage Controller	Onboard: Intel® 610: (10) SATA 6Gb/s ports SATA RAID 0, 1, 10
Onboard Storage	Support (2) SATADOM
Video	Integrated AST2400 with 8MB DDR3 video memory
Rear I/O	(2) USB 3.0 ports (1) VGA port (1) RS232 serial Port (2) 1 GbE or 10G BASE-T RJ45 port (1) GbE RJ45 management port (1) ID LED (1) Port80 Debug Port (optional)
TPM	Yes (With TPM 1.2/ 2.0 option)
Form Factor	2U Rack Mount
Dimensions	W x H x D (inch): 17.6 x 3.44 x 29.33 W x H x D (mm): 447 x 87.5 x 745
Storage	Option 1: (24) 2.5" hot-plug (2) optional rear 2.5" hot-plug SATA/SAS (2) optional rear 2.5" hot-plug PCIe SSD Option 2: (12) 3.5" hot-plug (2) optional rear 2.5" hot-plug SATA/SAS (2) optional rear 2.5" hot-plug PCIe SSD
Expansion Slot	Option 1 (default): (1) PCIe Gen3 x8 SAS mezzanine slot (2) PCIe Gen3 x8 LP MD-2 (1) PCIe Gen3 x8 FHHL (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 OCP LAN mezzanine slot Option 2: (1) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x8 FHHL (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 OCP LAN mezzanine slot (2) USB 2.0 ports
Front I/O	(2) USB 2.0 ports
Power Supply	1+1 High efficiency redundant hot-plug PSU (default with one PSU only; detailed PSU options please refer to "ordering info" or "CCL")
Fan	(4) dual rotor fans (7+1 redundant)
System Management	IPMI v2.0 Compliant, on board "KVM over IP" support Quanta Datacenter Manager 2.0/QDCM 2.0 (Optional)
Operating Environment	Operating temperature: 5°C to 40°C (41°F to 104°F) Non-operating temperature: -40°C to 70°C (-40°F to 158°F) Operating relative humidity: 50% to 85%RH. Non-operating relative humidity: 20% to 90%RH



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