

QuantaGrid D51B-2U

Full-Featured Energy Efficient 2-Socket Server



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 twelve 3.5" or twenty-four 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, v4 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 twelve 3.5" or twenty-four 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 options, 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.QCT.io>

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Found at: www.QCT.io/wheretobuy

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

China

云达科技, 北京办公室
(Quanta Cloud Technology)
北京市朝阳区东三环中路 1 号
环球金融中心东楼 1508 室
TEL: +86-10-5920-7600
FAX: +86-10-5981-7958

云达科技, 杭州办公室

(Quanta Cloud Technology)
浙江省杭州市西湖区古墩路浙商财富中心 4 号楼
303 室
TEL: +86-571-2819-8650

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

Taiwan

雲達科技 (Quanta Cloud Technology)
桃園市龜山區文化二路 211 號 1 樓
TEL: +886-3-286-0707
FAX: +886-3-327-0001

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

QCT authorized partner



INFO@HYPERSCALERS.COM

+61 1300 113 112

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Processor	Processor Type: Intel® Xeon® processor E5-2600 v3, v4 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: (24) 2133/2400 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
Onboard Storage	SATA RAID 0, 1, 10
Video	Support (2) SATADOM 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 LP MD-2 (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 FHHL (1) PCIe Gen3 x8 OCP LAN mezzanine slot
Front I/O	(2) USB 2.0 ports
Power Supply	1200W AC, Redundant, 86 mm (Platinum) 800W AC, Redundant, 86 mm (Platinum) 750W AC, Redundant, 86 mm (Gold) 500W AC, Redundant, 86 mm (Platinum) 470W AC, Redundant, 86 mm (Gold)
Fan	(4) dual rotor fans (7+1 redundant)
System Management	IPMI v2.0 Compliant, onboard "KVM over IP", Quanta System Manager (QSM)/ Quanta DataCenter Manager(QDCM) (optional) support
Operating Environment	Operating temperature: 5°C to 40°C (41°F to 104°F) Non-operating temperature: -40°C to 65°C (-40°F to 149°F) Operating relative humidity: 20% to 85%RH Non-operating relative humidity: 10% to 90%RH
Weight (Max. Configuration)	24.92 (kg) 54.94 (lbs)



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