QuantaGrid D51B-1U

Full-Featured Energy Efficient 2-Socket Server

Rear view

QuantaGrid D51B-1U is a general -purpose rackmount server designed for optimal performance and power efficiency. It is based on the dual Intel® Xeon® processor E5-2600 v3, v4 product family and features up to 1.5 TB memory capacity in a 1U chassis.
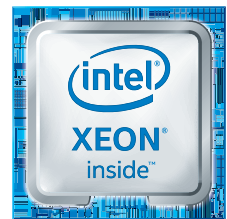
Greener and More Powerful

Powered by the Intel® Xeon® processor E5-2600 v3, v4 product family and DDR4 memory technology, the QuantaGrid D51B-1U 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 to achieve higher data center infrastructure efficiency (DCIE) value.

Full-Featured Design for Demanding Virtualization Workload

With 24 dual in-line memory module (DIMM) slots, QuantaGrid D51B-1U offers non-latency support to virtualization environments that require the maximum memory capacity. The D51B-1U also has two 2.5" PCIe Non-Volatile Memory Express (NVMe) SSDs on certain configuration options (with a 2.5" PtP backplane) to accelerate for today's demanding cloud storage and computing workload.

• Greener and More Powerful

• Extreme Memory Capacity for Demanding Virtualization Workload

• Flexible and Scalable I/O Options

Flexible and Scalable I/O Options

QuantaGrid D51B-1U 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 motherboards (LoM). With various controller vendors and different speed and technology options, customers can choose from 1GbE to 56GbE bandwidth, copper or fiber-optic cabling, basic Ethernet function or FCoE and ISCI 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

Powered by Intel® Xeon® processor
Intel Inside®. Powerful Data Center Outside.

Found at: www.QCT.io/wheretobuy

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Processor	**Processor Type:** Intel® Xeon® processor E5-2600 v3, v4 product family
	Max. TDP Support: 135W (145W with limited conditions)
	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: 2133/2400 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:**
	Support (2) SATADOM
Onboard Storage	Intel® 610:
	(10) SATA 6Gb/s ports
	SATA RAID 0, 1, 10
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) System LED
TPM	Yes (With TPM 1.2/ 2.0 option)
Form Factor	1U Rack Mount
Dimensions	**W x H x D (inch):** 17.244 x 1.7 x 29.21
	W x H x D (mm): 438 x 43.2 x 742
Storage	Option 1: (10) 2.5" hot-plug
	(including (2) optional 2.5" NVMe PCIe SSD)
	Option 2: (10) 2.5" hot-plug
	(require additional LSI SAS/ MegaRAID card to connect to the expander backplane)
	Option 3: (4) 3.5" hot-plug , (2) 2.5" fixed SSD
Expansion Slot	Option 1 (default):
	(1) PCIe Gen3 x8 SAS mezzanine slot
	(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 x16 FHHL
	(1) PCIe Gen3 x8 OCP LAN mezzanine slot
Front I/O	2.5" SKU: None
	3.5" SKU: (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	(6) dual rotor fans (11+1 redundant)
System Management	IPMI v2.0 Compliant, onboard "KVM over IP", Quanta System Manager 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)	19.97 (kg)
	44.03 (lbs)

Intel Inside®. Powerful Data Center Outside.