

QuantaGrid D51BV-2U

Energy Efficient 2-Socket GPU/ Xeon Phi™ Server



Rear view

QuantaGrid D51BV-2U is an energy efficient 2-Socket GPU/ Xeon Phi™ server derived from D51B-2U. It supports up to two PCIe x16 FHFL slots for GPU/ Xeon Phi™ cards. It is ideal for 3D rendering, technical computing, and mission-critical applications.

Greener and More Powerful

Powered by Intel® Xeon® processor E5-2600 v3 product family and the DDR4 memory technology, it allows owners to upgrade computing performance without compromising power consumption. Also with QCT's enhanced thermal and power design, the server can operate under 35°C ambient temperature without throttling even if a fan rotor fails. This allows you to save unnecessary datacenter cooling cost and achieve higher DCIE (Data center infrastructure efficiency) value.

Double the GPU/ Xeon Phi™ Support for HPC, Mission- Critical Applications

To succeed in a competitive world, customers need computing results with greater precision and speed. The QuantaGrid D51BV-2U supports up to two PCIe x16 FHFL slots for GPU/ Xeon Phi™ cards. With nVidia's GPGPU and Intel®'s Xeon Phi™ solutions, this server offers excellent VDI performance with rapid data accessibility from an array of mobile and tablet devices and enables smooth 3D virtual desktop rendering, which cannot be achieved with traditional VDI.

Full-Featured Design for Demanding Storage and Computing Workload

With 24 DIMM slots, QuantaGrid D51BV-2U offers non-latency support to virtualization environments which require maximum memory capacity.

- Ideal for 3D rendering, technical computing, and mission-critical applications
- Greener and More Powerful
- Support of two PCIe x16 FHFL slots for GPU/ Xeon Phi™ cards
- 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 onboard 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

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Processor	Processor Type: Intel® Xeon® processor E5-2600 v3 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 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 Optional NIC (more options refer to the CCL): Please refer to our Compatible Component List for more information
Storage Controller	Onboard: Intel® 610: (10) SATA 6Gb/s ports SATA RAID 0, 1, 10 Optional Controller (more options refer to the CCL): Please refer to our Compatible Component List for more information
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: (10) 3.5" hot-plug SATA 6Gb/s Option 2: (12) 3.5" hot-plug (require additional SAS/ RAID card)
Expansion Slot	(2) PCIe Gen3 x16 double-width FHFL (2) PCIe Gen3 x8, LP MD-2 (1) PCIe Gen3 x8 OCP LAN mezzanine slot
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 35°C (41°F to 95°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

Intel Inside®. Powerful Data Center Outside.

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