

QuantaGrid D51PS-1U

Powerful Compact 2-Socket Server



QuantaGrid D51PS-1U is a compact but powerful 2-Socket server. Based on the Intel® Xeon® processor E5-2600 v3 product family, it delivers enterprise-grade performance with up to x16 DDR4 memory. It's an ideal front-end web, data -caching, search and application server.

Ultra Dense Short Chassis

QuantaGrid D51PS-1U supports dual CPU, 16 DRAM, two PCIe expansion devices and two PSUs in a 24" deep chassis. As a short form factor, this server can be deployed in almost any SMB or data center environment.

Affordable Enterprise Class Performance and Reliability

The D51PS-1U delivers enterprise-class performance based on the latest Intel® Xeon® processor E5-2600 v3 product family and DDR4 memory technology. Despite its compact size, it retains scalability and reliability. It offers necessary LAN and storage expansion flexibility without superfluous configuration options. The D51PS-1U can accommodate one PCIe x8 OCP mezzanine plus one PCIe x8 QCT LAN or SAS mezzanine (adding up to eight GbE ports in a 1U chassis). The server supports fan and PSU redundancy to maintain reliable application performance even if one of these critical components fails.

Flexible and Scalable I/O options

QuantaGrid D51PS-1U provides flexible I/O

- Ultra Dense Short Chassis
- Affordable Enterprise Class Performance and Reliability
- Flexible and Scalable I/O options



scalability for today's diverse data center application requirements. It features OCP LAN mezzanine card solutions in addition to dual GbE or quad 1GbE 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 ISCSI SAN connectivity. The onboard SAS controller offers multiple Quanta 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: 135W 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: 16 Capacity: Up to 512GB RDIMM Up to 1024GB LRDIMM Memory Type: 2133 MHz DDR4 RDIMM/ LRDIMM Memory Size: 32GB, 16GB, 8GB RDIMM 64GB, 32GB LRDIMM
Network Controller	LOM: Intel® I350 dual-port 1 GbE 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 RJ45 port (1) GbE RJ45 management port (1) ID 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 1.75 x 24 W x H x D (mm): 438 x 43.2 x 609.6
Storage	Option 1: (10) 2.5" hot-plug Option 2: (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 OCP LAN mezzanine slot Option 2: (1) PCIe Gen3 x8 Quanta LAN mezzanine slot (1) PCIe Gen3 x16 OCP LAN mezzanine slot
Front I/O	2.5" SKU: None 3.5" SKU: (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	(5) dual rotor fans (9+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: 50% to 85%RH. Non-operating relative humidity: 20% to 90%RH

Build a more secure Cloud with Intel® Technology.

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