

QuantaGrid D51PC-1U

Versatile Compact 2-Way Server



QuantaGrid D51PC-1U is a compact and versatile 2-way server. It is based on the dual Intel® Xeon® processor E5-2600 v3, v4 product family, and offers up to 8x DDR4 memory, and three PCIe expansion devices to deliver enterprise grade performance. It's an ideal front-end web, data-caching, search and application server.

Ultra Dense Short Chassis

The QuantaGrid D51PC-1U supports dual CPU, eight DRAM, three PCIe expansion devices and two PSU in a 24" deep chassis. With short form factor, this server can be deployed in almost any SMB or data_center environment.

Affordable Enterprise Class Performance and Reliability

The D51PC-1U delivers enterprise-class performance based on the latest Intel® Xeon® processor E5-2600 v3, v4 product family and the DDR4 memory technology. Despite its compact size, it retains scalability and reliability. By offering necessary LAN and storage expansion flexibility without superfluous configuration options, its total cost of ownership is low. The QuantaGrid D51PC-1U can accommodate one PCIe x8 OCP mezzanine, one PCIe x8 QCT LAN or SAS mezzanine, plus one PCIe x8 low-profile card (adding up to 12x GbE ports in a 1U chassis). The server can support one fan rotor and PSU redundancy to maintain reliable application performance even if one of these critical components fails.

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



Flexible and Scalable I/O options

QuantaGrid D51PC-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 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

Quanta Cloud Technology (QCT) is a global datacenter solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation datacenter design and operation challenges. QCT serves cloud service providers, telecoms and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined datacenter solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

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Found at: www.QCT.io/wheretobuy

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QCT authorized partner

Processor	Processor Type: Intel® Xeon® processor E5-2600 v3, v4 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: 8 Capacity: Up to 256GB RDIMM Up to 512GB LRDIMM Memory Type: 2133 MHz DDR4 RDIMM/ LRDIMM Memory Size: 32GB, 16GB, 8GB RDIMM 64GB, 32GB LRDIMM
Network Controller	LOM: Option 1: (2) GbE ports (Intel® i210) Dedicated (1) GbE management port Option 2: (2) GbE ports (Intel® i210) + (2) GbE (Intel® i350) 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, (1) M.2 PCIe SSD
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 4x 1G 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 x8 Low profile MD-2, (1) PCIe Gen3 x8 OCP LAN mezzanine slot Option 2: (1) PCIe Gen3 x8 Quanta LAN mezzanine slot, (1) PCIe Gen3 x8 Low profile MD-2 (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	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 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

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Actual products may look different from the photos.

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