

# QuantaGrid D51PC-1U

## Versatile Compact 2-Way Server



Rear view

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.

# QuantaGrid D51PC-1U



Found at: [www.QCT.io/wheretobuy](http://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

<b>Processor</b>	<b>Processor Type:</b> Intel® Xeon® processor E5-2600 v3, v4 product family <b>Max. TDP Support:</b> 135W <b>Number of Processors:</b> 2 <b>Internal Interconnect:</b> 6.4 / 8.0/ 9.6 GT/s <b>L3 Cache:</b> Up to 45MB
<b>Chipset</b>	Intel® C610
<b>Memory</b>	<b>Total Slots:</b> 8 <b>Capacity:</b> Up to 256GB RDIMM Up to 512GB LRDIMM <b>Memory Type:</b> 2133 MHz DDR4 RDIMM/ LRDIMM <b>Memory Size:</b> 32GB, 16GB, 8GB RDIMM 64GB, 32GB LRDIMM
<b>Network Controller</b>	<b>LOM:</b> 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 <b>Optional NIC (more options refer to the CCL):</b> Please refer to our Compatible Component List for more information
<b>Storage Controller</b>	<b>Onboard:</b> Intel® 610: (10) SATA 6Gb/s ports; SATA RAID 0, 1, 10 <b>Optional Controller (more options refer to the CCL):</b> Please refer to our Compatible Component List for more information
<b>Onboard Storage</b>	Support (2) SATADOM, (1) M.2 PCIe SSD
<b>Video</b>	Integrated AST2400 with 8MB DDR3 video memory
<b>Rear I/O</b>	(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
<b>TPM</b>	Yes (With TPM 1.2/ 2.0 option)
<b>Form Factor</b>	1U Rack Mount
<b>Dimensions</b>	<b>W x H x D (inch):</b> 17.244 x 1.75 x 24 <b>W x H x D (mm):</b> 438 x 43.2 x 609.6
<b>Storage</b>	Option 1: (10) 2.5" hot-plug Option 2: (4) 3.5" hot-plug , (2) 2.5" fixed SSD
<b>Expansion Slot</b>	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
<b>Front I/O</b>	2.5" SKU: None 3.5" SKU: (2) USB 2.0 ports
<b>Power Supply</b>	1+1 High efficiency redundant hot-plug PSU (default with one PSU only; detailed PSU options please refer to "ordering info" or "CCL")
<b>Fan</b>	(5) dual rotor fans (9+1 redundant)
<b>System Management</b>	IPMI v2.0 Compliant, on board "KVM over IP" support Quanta Datacenter Manager 2.0/ QDCM 2.0 (Optional)
<b>Operating Environment</b>	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

QCT authorized partner



INFO@HYPERSCALERS.COM

+61 1300 113 112

All specifications and figures are subject to change without prior notice. Actual products may look different from the photos.

QCT, the QCT logo, Rackgo, Quanta, and the Quanta logo are trademarks or registered trademarks of Quanta Computer Inc.

All trademarks and logos are the properties of their respective holders.

Copyright © 2014-2017 Quanta Cloud Technology Inc. All rights reserved.



Intel Inside®  
New Possibilities Outside.

Intel, the Intel logo, Xeon, and Xeon Inside are trademarks or registered trademarks of Intel Corporation in the U.S. and/or other countries.