

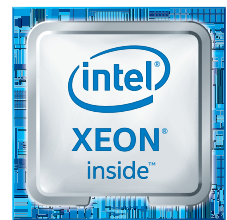
QuantaGrid D51PL-4U

World Class Capacity
Storage Server



Rear view

- Extreme Computing Performance
- Screw-less HDD Tray for Efficient Deployment
- Flexible and Versatile I/O Scalability
- Proprietary 7mm SSD for Fast Booting



The Highest Density Storage Server in the World

The storage server with the highest storage density in the world, QuantaGrid D51PL-4U, supports 102 3.5" HDDs (90 top accessed and 12 rear accessed 3.5" SATA/SAS HDD bays). Users get over 1PBs in a 4U space, which translates into getting 325% more space in comparison to legacy 4U front accessed storage servers

High Reliability and Serviceability

The D51PL-4U is a storage server which has great reliability, serviceability, and availability. Most parts of the D51PL-4U are hot-pluggable/swappable; such as its power supply, HDD/SSD, motherboard, and system cooling fans. Users would feel the ease of substituting a FRU part for the original one and the system. Most of the system boards and booting SSDs can easily be drawn with a simple latch, and replacement can be done bare handed. Support for redundant power supplies and dual system cooling fans, also reassure user operability even when a slight breakdown occurs. With innovative screw-less drive carriers, users also can easily install their HDD without any tools. This innovation in the D51PL-4U greatly reduces service time and maintenance complexity by 90% in comparison to systems with HDD trays which require tools and screws.

Fast Booting for Proprietary SSD

There are two 7mm SATA SSD bays for booting purposes. Installation of operating systems on these drives astonishingly enhances boot time. With this feature, users won't wait long and have their patience tested at long cycling loading screens.

High PCIe Expansion Flexibility

The D51PL-4U motherboard fully employs all the Broadwell PCIe lanes and rear coastlines. Users get 3 PCIe slot and 1 OCP slot to expand their applications and features. Additionally, users also can get 10Gbps plus bandwidth with one PCIe x16 OCP Mezz.(Or you can adopt 1G LOM solution if 10G plus bandwidth is not so required). Another PCIe x8 slot would be occupied by 1 SAS controller card to process the SAS signal and make the hardware RAID, which aids in the recognition of the 102 HDDs. The remaining two PCIe slots provide users lots of flexibility to expand their PCIe applications. Users can increase their LAN port or bandwidth, install a PCIe SSD card, or M.2 SSD card as the cache device to enhance their system's performance.

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 D51PL-4U



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Processor	Processor Type: Intel® Xeon® processor E5-2600 v4 product family (up to 135W TDP) Max. TDP Support: 135W 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: 2133/2400 MHz DDR4 RDIMM/ LRDIMM Memory Size: 32GB, 16GB, 8GB RDIMM, 64GB LRDIMM
Form Factor	4U Rack Mount, 1 Node
Dimensions (WxHxL)	W x H x D (inch): 17.6 x 6.9 x 42 W x H x D (mm): 447 x 175.3 x 1066.8
Storage Controller	Onboard: Intel® 610: (10) SATA 6Gb/s ports; SATA RAID 0, 1, 10 Optional Controller: Quanta Broadcom® 3108 12Gb/s RAID mezzanine, RAID 0,1,5,6,10,50,60 Quanta Broadcom® 3008-IR 12Gb/s SAS mezzanine, RAID 0,1,10 Quanta Broadcom® 3008-IT 12Gb/s SAS mezzanine,
Expansion Slot	(1) PCIe Gen3 x8 riser slot 1 HHHL (1) OCP PCIe Gen3 x8 LAN Mezz (1) PCIe Gen3 x8 riser slot 2 HHHL or SAS Mezz (1) PCIe Gen3 x16 riser slot 3 FHHL
Storage	(102) 3.5" SAS/SATA HDD/SSD
Front I/O	(3) Expander console ports
Power Supply	(2) 86mm 1600W Redundant Power Supplies Platinum Level Certified
Fan	(4) 92mm n+1 rotor failed cooling fans
System Management	IPMI v2.0 Compliant, onboard "KVM over IP," Quanta System Manager (QSM)
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
Weight	About 140kg (with 102* 3.5"HDD)
Network controller	LOM: (2) GbE ports Intel I350 LOM Optional NIC: Refer the CCL
Onboard Storage	(2) 2.5" hot-plug SSD (1) SATADOM
Video	Aspeed AST 2400 BMC, 8MB of DDR4 video memory
Rear I/O	(2) USB 3.0 ports (1) VGA port (2) RJ45 LAN ports (1) COM Port (1) RJ45 Management port
TPM	TPM 2.0/1.2, LPC

QCT authorized partner



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