QuantaPlex T21P-4U

Ultra-Dense Extreme Performance Storage Server

Rear view

- Maximized Storage Capacity
- Extreme Computing Performance
- Screw-less HDD Tray for Efficient Deployment
- Flexible and Versatile I/O Scalability

Tailored to meet the growing storage capacity demand in hyper scale datacenter, the QuantaPlex T21P-4U equips up to seventy-eight hot-swappable and screw-less 3.5" drives and two high-computing server nodes into an ultra-dense 4U chassis. Capable of delivering up to 624 terabytes of storage in one system, the QuantaPlex T21P-4U efficiently achieve the most demanding cloud storage environments planning today and future.

The QuantaPlex T21P-4U is a highly sophisticated, dense storage server built to provide outstanding low dollar-per-GB costs for cold, warm and even hot storage workloads. With the latest Intel® Xeon® processor E5-2600 v3 product family and Quanta System Manager (QSM), the QuantaPlex T21P-4U offers cloud planners the storage capacity and the manageability they need.

Maximized Storage Density

Aimed at streaming file, massive object or block level data stores for cloud environments, archive and data analytics with up to seventy-eight 3.5" SAS/SATA hard drives, each up to 8TB in capacity, QuantaPlex T21P-4U provides exceptionally high storage density while leveraging high-efficiency power to maximize performance-per-watt savings to reduce TCO. Two 2.5" SSD boot drives provide extra capability for high-performance storage within each node for fast access to frequently-used data.

Efficient System Assembly and Deployment

Driven by social media, mobile applications, and devices boosted by mega hyper scale datacenters, server and storage platforms are requiring more capacity to store the increasing volume of data and retain the data for longer periods of time than ever. To install higher density and large number of hard drives into one system is time consuming for system integrators and IT administrators. With innovated screw-less hard drive carrier design, QuantaPlex T21P-4U allows operators can complete the system assembly in the short time, which is significantly reduce the deployment and service time.

Flexible and Versatile I/O Expansion

QuantaPlex T21P-4U support QCT made OCP LAN mezzanine card with varied type of Ethernet connectivity from 1Gb, 10Gb and 40Gb. Along with the support up to three additional PCIe Gen3 slots, offers flexible and versatile I/O expansion capability to eliminate costly bottlenecks. Deliver high availability even under heavy loading with up to four 1600W Platinum-efficiency power supplies that provide fully-redundant 2+2 split zone power configuration capabilities.

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.

Powered by Intel® Xeon® processor
Intel Inside®. New Possibilities Outside.

Found at: www.QCT.io/wheretobuy

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Processor	(2) Intel® Xeon® processor E5-2600 v3 product family, TDP up to 135W
Chipset	Intel® C610
Memory	(16) DIMM per node, up to 2133MHz, LRDIMM and RDIMM
Form Factor	4U Rack Mount
Dimensions (WxHxL)	17.6" x 6.9" x 35.9" (447mm x 175.3mm x 912.2mm)
Storage Controller	Wellsburg PCH RSTe
Expansion Slot	(1) PCIe Gen3 x8 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	**SKU 1:** 2 MBs with 70x 3.5"/2.5" hot plug, each MB manages 35 hard drives **SKU 2:** 1 MB with 70x 3.5"/2.5" hot plug and 8x 3.5" hot plug drives
Front I/O	Power/ID/Reset Buttons, LEDs
Power Supply	Redundant 2+2 PSU (1,200W, 100V-240V, Platinum)
Fan	(4) 8056 + (1) 6056 dual-rotor fans, support one rotor failed redundancy
System Management	IPMI v2.0 Compliant, on board "KVM over IP" support
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: 40% to 90%RH
Weight	49.45Kg(w/o HDD), ~130Kg(w/ 78xHDD)
Network controller	Dual GbE ports Intel® I350 LOM (1) Dedicated management 10/100/1000 port **Option:** QCT Intel® I350 dual-port OCP mezzanine QCT Intel® X540 dual-port 10GbE BASE-T OCP mezzanine QCT Intel® 82599ES dual-port 10G SFP+ OCP mezzanine QCT Mellanox CX3PRO 10G SFP+ OCP mezzanine with RDMA support
Onboard Storage	(2) 2.5" hot-plug SSD (1) SATADOM
Video	ASPEED AST2400 8MB DDR3 video memory
Rear I/O	(2) USB 3.0 ports (1) VGA port (2) RS232 serial port (2) GbE RJ45 ports (1) GbE RJ45 management port
TPM	Yes (TPM 2.0/1.2, LPC)

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