

QuantaPlex T21SR-2U

2U High Availability
Cluster-in-a-Box
Storage Server



- Full Redundancy with No Single-Point-of-Failure
- On-The-Fly Cache Synchronization
- Shared Infrastructure with High Serviceability
- Data Vaulting and Node Awareness Design

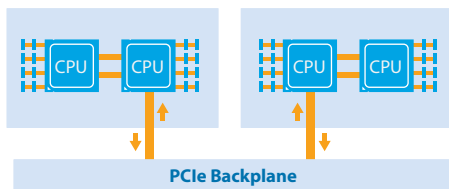


QuantaPlex T21SR-2U is a 2U two-node Cluster-in-a-Box storage server. Two server nodes are clustered via either a PCIe interconnection or 10Gb with sharing up to 24 disk drives in a 2U chassis. Such design enable the function that if one server board fails, the other server board is able to take control and gain full access to HDD and front end host I/O, keeping the system and business up and running non-disruptively. Both server boards can also work in Active-Active mode.

System Integrity Protection

The biggest challenge during system operation is avoiding storage server failure, power loss, short interrupt or power supply unit failure. QuantaPlex T21SR-2U uses a backup battery unit (BBU) to provide of power up to 120 seconds for each node after a power failure. It also assists in a graceful to shut down and maintains data integrity.

On-The-Fly Cache Synchronization



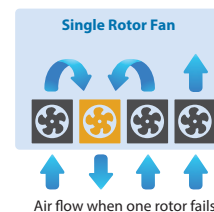
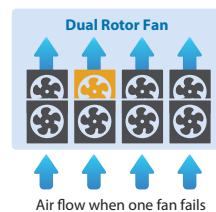
QuantaPlex T21SR-2U offers two kinds of data synchronization solutions, the 10Gb interconnection and the Non-Transparent Bridge (NTB) technology. The storage software developer can choose either one or both as redundancy. This architecture allows storage software vendors to implement enterprise-level controller failover function with rapid cached synchronization to meet their high-availability requirements.

Latest Generation Platform with DDR4 Technology

QuantaPlex T21SR-2U operates with the latest Intel® Xeon® processor E5-2600 v3 product family and the newest DDR4 memory technology. It provides maximum 18-core count CPU with enhanced QPI bandwidth to 9.6GT/s, a 20 percent improvement from the previous generation. With up to 1024 GB memory capacity, the system performance has a Linpack score up to 80 percent* and is optimized to run the most demanding of applications.

Various OCP Network Options

QCT uses the modular design concept to optimize system interoperability, flexibility and serviceability. QCT's flexible network mezzanine cards are designed to fit into every QCT server/storage system to reduce the complexity and uncertainty of the system availability options.



Dual Rotor Fan Design

QCT dual rotor fans maintain non-impact performance. Compared to a single fan design, a dual rotor fan keeps the system's internal air flowing in the right direction if one rotor fails, enhancing product stability and durability.

High Serviceability

The QuantaPlex T21SR-2U consistently delivers high serviceability to reduce service time and costs. Its module design concept for the expander boards, controller nodes, FAN cages and the PDB cage improve the cable routing and lower the operation cost.

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>

QuantaPlex T21SR-2U



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QCT authorized partner

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Processor	(2) Intel® Xeon® processor E5-2600 v3 product family, TDP up to 135W per node
Chipset	Intel® C610
Memory	(16) DIMM per node, up to 2133MHz, LRDIMM and RDIMM per node
Form Factor (LxWxH)	2U Chassis (WxHxD) 444mm x 87.5mm x 790mm 17.48" x 3.44" x 31.1"
MB Size (W x L)	MB 6.5"x 19.38" (half-width)
Disk Drive Bay	(12) 3.5" or (24) 2.5" SASIII hot-plug hard drives per system (2) 2.5" internal SATA SSD for OS installation per node
Raw Capacity	Up to 96 TB of internal capacity and can be expanded to 480 TB externally with the QuantaVault JB4602 disk enclosure
PCIe Expansion Slot	(2) PCIe Gen3 x8 HHHL per node (1) PCIe Gen3 x8 for SAS controller per node
Network	(1) OCP LAN mezzanine support 1Gb, 10Gb and 40Gb
Node Interconnection	Intel® built-in NTB and 10Gb
Management Port	(1) dedicated 10/100/1000 BASE-TX RJ45 management port per node
Hardware Management	IPMI v2.0 compliant, on board "KVM over IP" support
Integrated Graphics (BMC)	Aspeed AST2400 8MB DDR3 video memory
Rear I/O	(2) USB 3.0 ports (1) VGA port (1) RS232 serial Port (1) 10/100 RJ45 magement port
Power Supply	(2) 1100W high efficiency redundant PSU, 100-240VAC 50/60Hz
RoHS	Yes
Operating Environment	Operating temperature: 10°C to 35°C (50°F to 95°F) Non-operating temperature: -40°C to 70°C (-40°F to 158°F) Operating relative humidity: 50% to 90%RH Non-operating relative humidity: 20% to 95%RH

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