QuantaPlex T21SR-2U

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

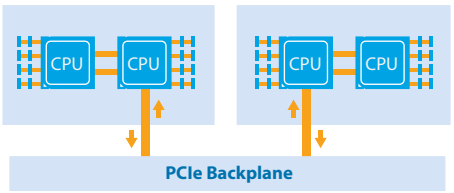
- System Integrity Protection
- On-the-Fly Cache Synchronization
- Shared Infrastructure with High Serviceability
- Various OCP Network Options

QuantaPlex T21SR-2U is a 2U two-node Cluster-in-a-Box server. Two server nodes are clustered via a PCIe interconnection and sharing up to 24 disk drives in a 2U chassis.The 10 GB connect between the server boards via the mid-plane, so 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 up and running. 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. QuantaVaultQuantaPlex 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 system and data integrity.

On-The-Fly Cache Synchronization



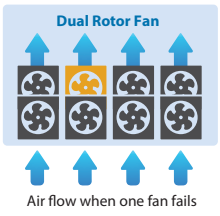
QuantaPlex T21SR-2U offers two kinds of fail-over solutions, the 10Gb PCIe interconnection and the Non-Transparent Bridge (NTB) technology. An owner can choose either one or both. This architecture allows storage software vendors to implement enterprise-level cluster functions with rapid cached synchronization to meet their high- availability requirements.

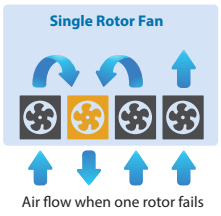
Lastest Generation Platform with DDR4 Technology

QuantaPlex T21SR-2U operates with the latest Intel® E5-2600 v3, v4 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 fan cage and the PDB cage reduces cable routing.

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.QCT.io

Powered by Intel® Xeon® processor
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Found at: www.QCT.io/wheretobuy

QuantaPlex T21SR-2U (2-Node)

Processor	**Processor Type:** Intel® Xeon® processor E5-2600 v3, v4 product family **Max. TDP Support:** 135W or 145W * **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:** 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, 32GB LRDIMM
Network Controller	**LOM:** Option 1: Intel® I350 dual-port 1 GbE per node Dedicated 10/100 management port per node Option 2: Intel® X540 dual-port 10GbE BASE-T per node * Dedicated 10/100 management port per node Option 3: Intel® 82599ES dual-port 10G SFP+ per node Dedicated 10/100 management port per node **Optional NIC (more options refer to the CCL):** Please refer to our Compatible Component List for more information
Storage Controller	**Onboard:** Intel® C610: (6) 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
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 10G BASE-T RJ45 port (1) 10/100 RJ45 magement port
TPM	TPM (With TPM 2.0 / 1.2 Option)
Form Factor	2U Rack Mount, Dual Clustered Node
Dimensions	**W x H x D (inch):** 17.48 x 3.44 x 31.1 **W x H x D (mm):** 444 x 87.5 x 790
Storage	Option 1: (12) 3.5" hot-plug SAS HDD (2) 2.5" hot-plug SSD HDD for OS installtion per node (1) USB Flash Module Option 2: (24) 2.5" hot-plug SAS HDD (2) 2.5" hot-plug SSD HDD for OS installtion per node (1) USB Flash Module
Expansion Slot	**Node Interconnection:** (1) PCIe Gen3 x8 for Intel Non-Transparent Bridge (NTB) per node (1) PCIe Gen3 x8 for 10G Base-KR per node (2) PCIe Gen3 x8, LP MD-2 per node (1) PCIe Gen3 x8 for SAS controller per node
Front I/O	(1) USB 2.0 ports
Power Supply	(2) high efficiency hot-plug 1200W PSU, 80 Plus Platinum or (2) high efficiency hot-plug 1600W PSU, 80 Plus Platinum
Fan	(4) hot-plug system fans *
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 35°C (41°F to 95°F) Non-operating temperature: -40°C to 70°C (-40°F to 158°F) Operating relative humidity: 20% to 85%RH Non-operating relative humidity: 20% to 90%RH

* Support 10Gb KR and NTB interconnection for Node Interconnection
* Restriction applies. Please contact Quanta Sales representive regarding 145W support
* Restriction applies. Please contact Quanta Sales representive regarding Intel® X540 dual-port 10GbE BASE-T support
* Cable management arm (CMA) is required for fans hot-pluggable feature

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Found at: www.QCT.io/wheretobuy

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