

# QuantaPlex T41SP-2U

2U 4-Node Server  
Featuring NVMe  
SSD



QuantaPlex T41SP-2U is an ultra-dense design equipped with four independent nodes. It creates the flexibility to set up different workloads independently in one 2U shared infrastructure, providing optimal data center performance per dollar. Each node supports two NVMe SSDs, which are three times as fast as conventional high-end 12Gbps SAS SSDs.

## Latest Generation Platform with DDR4 Technology

QuantaPlex T41SP-2U operates with the latest Intel® 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 increase and is optimized to run the most demanding of applications.

## Great performance with NVMe SSD

NVMe provides a PCIe interface that makes it more than three times as fast as a conventional high-end 12Gbps SAS SSD. The T41SP-2U delivers fast results in high-performance computing applications, such as tasks involving big data. With the help of extreme low-latency SSD, customers get excellent IOPS performance in all applications. NVMe also supports a hot-plug feature for convenience similar to a SAS HDD/SSD.

## Space and Energy Efficiency

QuantaPlex T41SP-2U provides a 2U four-node system with sufficient IO expansion for storage and networking increases. With shared infrastructure, like cooling and power supply, the total cost of ownership (TCO) is lower than

- Next Generation Platform with DDR4 technology
- Shared Infrastructure Delivers Space and Energy Efficiency
- Various OCP Network Option
- High Serviceability



four regular 1U servers. The QuantaPlex T41SP-2U is a great solution for increasing the number of servers per square foot in a limited space.

## 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.

## High Serviceability

The QuantaPlex T41SP-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>

# QuantaPlex T41SP-2U (4-Node)



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

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QCT authorized partner

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<b>Processor</b>	<b>Processor Type:</b> Intel® Xeon® processor E5-2600 v3 product family <b>Max. TDP Support:</b> 135W or 145W * <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> 16 <b>Capacity:</b> Up to 512GB RDIMM Up to 1024GB 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: 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 <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® C610: (6) 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 UFM
<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 10G BASE-T RJ45 port (1) 10/100 RJ45 management port
<b>TPM</b>	TPM 1.2
<b>Form Factor</b>	2U Rack Mount, 4 nodes
<b>Dimensions</b>	<b>W x H x D (inch):</b> 17.48 x 3.44 x 31.1 <b>W x H x D (mm):</b> 444 x 87.5 x 790
<b>Storage Expansion Slot</b>	(24) 2.5" hot plug ((8) NVMe SSD) (1) PCIe Gen3 x16 Low profile MD-2 (1) PCIe Gen3 x8 mezzanine slot (1) PCIe Gen3 x8 OCP LAN mezzanine slot
<b>Front I/O</b>	(1) USB 2.0
<b>Power Supply</b>	Option 1: (2) high efficiency hot-plug 1600W PSU, 80 Plus Platinum (200V-240V) * Option 2: (2) high efficiency hot-plug 1200W PSU, 80 Plus Platinum (100V-240V) *
<b>Fan</b>	(4) hot-plug system fans *
<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 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

\* Restriction applies. Please contact QCT Sales representative regarding 145W support

\* Restriction applies. Please contact QCT Sales representative regarding Intel® X540 dual-port 10GbE BASE-T support

\* Maximum Output Power = 1023W at 100V-120V- Input

\* Maximum Output Power = 1200W at 200V-240V- Input

\* Cable management arm (CMA) is required for fans hot-pluggable feature

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