

# STRATOS S210 Series S210-X12RS



2-Socket High  
Memory 1U Rack-  
mount Server

# Quanta®

QCT STRATOS S210-X12RS is an Intel® Xeon® processor E5-2600/ E5-2600 v2 product family-based server platform optimized for the demands of the highest density datacenter environments. It boosts general performance by up to 80% over a previous generation Intel® Xeon® processor-based server, and provides up to 768GB of memory capacity in a space-efficient 1U form factor. From virtualization, datacenter infrastructure to design automation or real-time financial transactions, datacenter operators will achieve the performance their customers demand, because the S210-X12RS is a perfect solution for applications demanding memory capacity.



#### Maximum Computing Performance with Low Energy Draw

QCT STRATOS S210-X12RS is an ultra-dense 2-socket rackmount server, supporting up to 12-core Intel® Xeon® processor E5-2600/ E5-2600 v2 product family and 24 DDR3 DIMMs in 1U space. The S210-X12RS enables up to 2x better technical computing performance with Intel® AVX and new Intel® Turbo Boost Technology, while getting up to 50% more performance per watt than previous generations.

In addition, ample DIMM slots enable support for up to 768GB of system memory on low-voltage DIMMs while lowering datacenter operation cost with the least energy consumption. S210-X12RS is ideal for any memory-constrained application, such as memcached, data analysis, virtualization, and cloud computing.

#### High Storage Flexibility

In a 1U chassis, the STRATOS S210-X12RS provides choices of 4 x 3.5" or 10 x 2.5" hot-plug HDDs. Datacenters could choose different levels of storage from 3Gb/ 6Gb, or enterprise SSD drives to create optimal storage solutions for different applications. The S210-X12RS also offers SATADOM option for OS installation.

#### Enhanced I/O Scalability

The STRATOS S210-X12RS offers impressive I/O scalability to meet diverse datacenters applications. Its onboard network has choices between two GbE or 10GbE RJ45 ports. Customers can select the ideal configuration for their datacenter networking environment. Expansion options include onboard Intel® SAS/RAID upgrade ROM, one standard PCIe x16 slot, and two dedicated x8 mezzanine slots for SAS/RAID and 10GbE SFP+ adaptors. By supporting PCIe 3.0, it improves I/O bandwidth up to 2x from previous generation. I/O latency is also dramatically reduced with Intel® integrated I/O and Data Direct I/O technology, which helps datacenters to eliminate data bottlenecks, streamline operations, and increase agility.

#### About Quanta Cloud Technology (QCT)

Quanta Cloud Technology (QCT) provides advanced hardware systems to cloud datacenters worldwide. Product lines include servers, storage, network switches, and integrated rack systems. QCT customers want the same innovative cloud hardware technology in use by hyperscale cloud datacenter operators, but in off-the-shelf SKUs with global services. QCT sells cloud hardware that delivers hyperscale performance, efficiency and advanced engineering, with flexible product configuration, rack integration, performance tuning and engineering consulting services to help customers deploy optimized cloud solutions for their unique cloud workloads.

QCT's parent is Quanta Computer, Inc., a Fortune Global 500 company with more than 100,000 employees located at engineering, manufacturing and services facilities worldwide. <http://www.QuantaQCT.com>

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<b>Form Factor</b> (L x W x H)	1U Chassis 728mm x 438mm x 43.2mm 28.66" x 17.24" x 1.7"	ConnectX-3] (optional) or (1) QCT 56Gb dual port FDR mezzanine [Mellanox ConnectX-3] (optional)
<b>MB Size</b> (W x L)	419.1mm x 411mm 16.5" x 16.18" (L shape)	<b>Management Port</b> (1) Dedicated GbE RJ45 management port
<b>Processor</b>	(2) Intel® Xeon® processor E5-2600/ E5-2600 v2 product family	<b>Integrated Graphics (BMC)</b> Aspeed AST2300 8MB DDR3 video memory
<b>Chipset</b>	Intel® C602 chipset	<b>Rear I/O</b> (2) USB 2.0 ports (1) VGA port (1) RS232 serial port (2) GbE or 10G Base-T RJ45 ports (1) GbE RJ45 management port (1) ID button with LED
<b>SAS Controller</b>	<b>[Intel® SAS controller]</b> Intel® C602 upgrade ROM #1 (optional) Intel® C602 upgrade ROM #2 (optional) Intel® C602 upgrade ROM #5 (optional) Intel® C602 upgrade ROM #6 (optional) Intel® C602 upgrade ROM #9 (optional) or <b>[LSI SAS controller]</b> QCT LSI SAS 2008 mezzanine card (optional) QCT LSI SAS 2108 mezzanine card (optional) QCT LSI SAS 2208 mezzanine card (optional) QCT LSI SAS 2308 mezzanine card (optional)	<b>Power Supply</b> (2) 750W redundant PSUs, 100-240VAC 50/60Hz (2nd PSU is optional)
<b>Memory</b>	(24) DDR3 800/1066/1333/1600/1866 MHz RDIMM/LRDIMM slots	<b>TPM</b> Yes (optional)
<b>Storage</b>	(10) 2.5" or (4) 3.5" hot-plug HDD bays	<b>RoHS Compliance</b> Yes
<b>Onboard Storage Device</b>	(2) 3G miniSAS connectors signal from Intel® C602 (SCU) (1) 3G miniSAS connector signals from Intel® C602 (AHCI) (1) 6G SATA connector signals from Intel® C602 (AHCI) (1) 6G SATA connector signals from Intel® C602 (AHCI) for optional SATADOM	<b>System Management</b> IPMI v2.0 compliant, on board "KVM over IP" support
<b>HDD Backplane</b>	1 to 1 or expander	<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: 50% to 85%RH Non-operating relative humidity: 20% to 90%RH
<b>PCIe Expansion Slot</b>	(1) PCIe Gen3 x16 FHHL (2) PCIe Gen3 x8 mezzanine Slots	<b>L10 Weight</b> 24 Kg
<b>SW RAID Options</b>	<b>[Intel® SW RAID]</b> Intel® RSTe SATA RAID 0/1/10 (AHCI HDD) Intel® C602 upgrade ROM #1 RAID 0/1/10 for 4 SCU ports (optional) Intel® C602 upgrade ROM #2 RAID 0/1/10/5 for 4 SCU ports (optional) Intel® C602 upgrade ROM #5 RAID 0/1/10 for 8 SCU ports (optional) Intel® C602 upgrade ROM #6 RAID 0/1/10/5 for 8 SCU ports (optional) Intel® C602 upgrade ROM #9 SATA RAID 0/1/10/5 for 8 SCU ports (optional) or <b>[LSI SW RAID]</b> QCT LSI SAS 2008 mezzanine card for RAID 0/1/10 (optional) QCT LSI SAS 2308 mezzanine card for RAID 0/1/10 (optional)	
<b>HW RAID Options</b>	QCT LSI SAS 2108 mezzanine card for RAID 0/1/10/5 (optional) QCT LSI SAS 2108 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional) QCT LSI SAS 2208 mezzanine card for RAID 0/1/10/5 (optional) QCT LSI SAS 2208 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional)	
<b>Network</b>	(2) Intel® I350 GbE RJ45 ports or (2) Intel® X540 10GbE Base-T RJ45 ports (1) QCT GbE RJ45 dual port mezzanine card [Intel® I350 controller] (optional) or (1) QCT 10GbE Base-T dual port mezzanine card [Intel® X540 controller] (optional) or (1) QCT 10GbE SFP+ dual port mezzanine card [Intel® 82599ES controller] (optional) or (1) QCT 40GbE dual port mezzanine [Mellanox ConnectX-3] (optional) or (1) QCT 40Gb dual port QDR mezzanine [Mellanox	



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