

STRATOS S210 Series S210-X22RQ



2-Socket High
Memory 2U Rack-
mount Server

Quanta®

The QCT STRATOS S210-X22RQ is a server platform optimized for the demands of the densest datacenter environments. Based on an Intel® Xeon® processor E5-2600/ E5-2600 v2 product family, it boosts general performance by up to 80% over a previous generation Intel® Xeon® processor-based server, and provides up to 768GB of memory and storage capability in a 2U form factor. From virtualization, datacenter infrastructure, to design automation or real-time financial transactions, datacenters will be delighted by the improvement in performance this server delivers. In other words, the S210-X22RQ is a perfect solution for applications demanding memory and storage capacity.



Maximum Computing Performance with Low Energy Draw

QCT STRATOS S210-X22RQ is a 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 a 2U space. The S210-X22RQ 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, its large number of DIMM slots not only enables support for up to 768GB of system memory on low-voltage DIMMs, but also lowers datacenter operation cost with low energy consumption. S210-X22RQ is ideal for any space and memory-constrained applications, such as memcached, data analysis and storage, virtualization, and cloud computing.

High Storage Flexibility

In the 2U chassis, the STRATOS S210-X22RQ provides choices of 12 x 3.5" or 24 x 2.5" hot-plug HDDs in the front side, plus two 2.5" hot plug SSD/HDD bays in the rear side. Datacenters can choose different levels of storage including 3Gb/ 6Gb or enterprise SSD drives to create optimal storage solutions for different applications. The S210-X22RQ also offers SATADOM option for OS installation.

Enhanced I/O Scalability

The STRATOS S210-X22RQ offers impressive I/O scalability to meet diverse datacenter applications. Its onboard network has choices between two GbE or 10GbE RJ45 ports. Customers can select the best configuration for their datacenter networking environment. Expansion options include onboard Intel® SAS/RAID upgrade ROM, four standard PCIe x8 slot, one PCIe x4 slot, and two dedicated x8 mezzanine slots for SAS/RAID and NIC adaptors. By supporting PCIe 3.0, it improves I/O bandwidth up to 2 times 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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Form Factor (L x W x H)	2U Chassis 720mm x 430mm x 87.5mm 28.34" x 16.92" x 3.4"	ConnectX-3] (optional) or (1) QCT 40Gb dual port QDR mezzanine [Mellanox ConnectX-3] (optional) or (1) QCT 56Gb dual port FDR mezzanine [Mellanox ConnectX-3] (optional)
MB Size (W x L)	419.1mm x 411mm 16.5" x 16.18"	
Processor	(2) Intel® Xeon® processor E5-2600/ E5-2600 v2 product family	
Chipset	Intel® C602 chipset	
SAS Controller	[Intel® SAS controller] 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 [LSI SAS controller] 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)	
Memory	(24) DDR3 800/1066/1333/1600/1866 MHz RDIMM/ LRDIMM slots	
Storage	(24) 2.5" or (12) 3.5" hot-plug HDD bays (2) 2.5" rear hot-plug SSD bays (optional)	
Onboard Storage Device	(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	
HDD Backplane	1 to 1 or expander	
PCIe Expansion Slot	(1) PCIe Gen3 x8, FHHL (3) PCIe Gen3 x8, LP MD-2 (1) PCIe Gen3 x4, LP MD-2 (2) PCIe Gen3 x8 mezzanine slots	
SW RAID Options	[Intel® SW RAID] 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 [LSI SW RAID] QCT LSI SAS 2008 mezzanine card for RAID 0/1/10 (optional) QCT LSI SAS 2308 mezzanine card for RAID 0/1/10 (optional)	
HW RAID Options	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)	
Network	(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	
Management Port	(1) Dedicated GbE RJ45 management port	
Integrated Graphics (BMC)	Aspeed AST2300 8MB DDR3 video memory	
Rear I/O	(2) USB 2.0 ports (1) VGA port (1) RS232 serial port (2) GbE or 10GbE Base-T RJ45 ports (1) GbE RJ45 management port (1) ID button with LED	
Power Supply	(2) 1100W redundant PSUs, 100-240VAC 50/60Hz	
TPM	Yes (optional)	
RoHS Compliance	Yes	
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: 50% to 85%RH Non-operating relative humidity: 20% to 90%RH	
L10 Weight	35 Kg	



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