

STRATOS S210 Series S210-X12MS



2-Socket High
Performance &
Cost-Effective 1U
Rackmount Server

Quanta®

QCT STRATOS S210-X12MS is Intel® Xeon® processor E5-2600/ E5-2600 v2 product family-based server platform optimized for the demands of the highest density datacenter environments. While it trims and streamlines the system functions specifically for high performance, cost-effectiveness and power-efficiency, the system boosts its general performance by up to 80% and enables up to 2 times better technical computing performance with Intel® AVX technology compared with a previous generation Intel® Xeon® processor-based server, making it a perfect solution for datacenters requiring floating point/ HPC performance.



Maximum Computing Performance with Low Energy Draw

QCT STRATOS S210- X12MS is a dense 2-socket rackmount server, supporting up to 12-core Intel® Xeon® processor E5-2600/ E5-2600 v2 product family and 16 DDR3 DIMMs in 1U space. The S210-X12MS enables up to 2 times 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, it supports low-voltage DIMMs, lowering datacenter operation cost with the least energy consumption.

High Storage Flexibility

In the 1U chassis, the STRATOS S210-X12MS provides choices of 4 x 3.5" or 10 x 2.5" hot-plug HDDs. Datacenters can choose different levels of storage from 3Gb/ 6Gb HDD or SSD drives to create optimal storage solutions for different applications. The S210-X12MS also offers SATADOM option for OS installation.

Enhanced I/O and Networking Ability

The STRATOS S210-X12MS simplifies the I/O scalability to just meet datacenters applications. Expansion options include onboard Intel® SAS/RAID upgrade ROM, and one PCIe x16 slot. 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)	1U Chassis 728mm x 438mm x 43.2mm 28.66" x 17.24" x 1.7"	Management Port	(1) Dedicated GbE RJ45 management port
MB Size (W x L)	304.8mm x 330.2mm 12" x 13" SSI EEB form factor	Integrated Graphics (BMC)	Aspeed AST2300 8MB DDR3 video memory
Processor	(2) Intel® Xeon® processor E5-2600 v2 product family	Front I/O	Power/ID/Reset Buttons, LEDs
Chipset	Intel® C602 chipset	Rear I/O	(4) USB 2.0 ports (1) VGA port (1) RS232 serial port (2) GbE ports (1) GbE RJ45 management port
SAS Controller	[Intel® SAS controller] <SAS 3G> 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] <SAS 6G> QCT LSI SAS 2008/2308 mezzanine card (optional) QCT LSI SAS 2108/2208 mezzanine card (optional)	Power Supply	(1) 650W high efficiency fixed PSU, 100-240VAC 50/60Hz
Memory	(16) DDR3 800/1066/1333/1600 MHz RDIMM/LRDIMM slots	TPM	Yes (optional)
Storage	(10) 2.5" or (4) 3.5" hot-plug HDD bays	RoHS Compliance	Yes
Onboard Storage Device	(8) SATA connectors signal from Intel® C602 (SCU) (5) SATA connectors signal from Intel® C602 (AHCI) (1) SATA connector signals from Intel® C602 (AHCI) for optional SATADOM	System Management	IPMI v2.0 compliant, on board "KVM over IP" support
HDD Backplane	1 to 1 or expander	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
PCIe Expansion Slot	(1) PCIe x16 G3 slot for low-profile card or QCT SAS mezzanine card	L10 Weight	23.5 Kg
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 2008/2308 mezzanine card for RAID 0/1/10 (optional)		
HW RAID Options	QCT LSI SAS2108 mezzanine card for RAID 0/1/10/5/50 (optional) QCT LSI SAS2108 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional) QCT LSI SAS2208 mezzanine card for RAID 0/1/10/5/50 (optional) QCT LSI SAS2208 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional)		
Network	(2) Intel® I350 1GbE RJ45 ports		

Quanta®
Optimize Your Datacenter

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