

STRATOS S210 Series S210-X22RQ



Two-Socket High
Memory 2U Rack-
mount Server

Quanta

Quanta STRATOS S210-X22RQ is Intel® Xeon® processor E5-2600/ E5-2600 v2 product family-based server platform optimized for the demands of the densest 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 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 better than ever performance. In other words, the S210-X22RQ is a perfect solution for applications demanding memory and storage capacity.



Maximum Computing Performance with Low Energy Draw

Quanta 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 2U space. The S210-X22RQ 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, its large number of DIMM slots not only amazingly enables support for up to 768GB of system memory on low-voltage DIMMs, but also lowers datacenter operation cost with the least 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 hard drives in the front side, plus two 2.5" hot plug SSD/HDD bays in the rear side. Datacenters could choose different levels of storage from 3Gb/ 6Gb SATA/ SAS, 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 has great I/O scalability to meet datacenters' diverse applications. Its onboard network has choices between two GbE or 10GbE RJ45 ports. Customers could select the best way 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 10GbE SFP+ 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.

Quanta, Leading Datacenter Solution Provider

For years, Quanta has successfully developed and customized its advanced engineered products for enterprise datacenters, service providers, and top-tier multinational firms worldwide. Based on the rich experiences, Quanta is dedicated on development of "best Performance-per-Watt and per-Dollar" solutions to fulfill ever-growing datacenter demands for all budgets. The STRATOS S210 series servers are designed for large/medium-size datacenters & cloud service providers with lower CAPEX, OPEX, and satisfying overall performance.

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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"	(1) Quanta 10GbE Base-T dual port mezzanine card [Intel® X540 controller] (optional) (1) Quanta 10GbE SFP+ dual port mezzanine card [Intel® 82599ES controller] (optional) (1) Quanta 40GbE dual port QDR mezzanine [Mellanox ConnectX-3] (optional) (1) Quanta 40GbE dual port FDR mezzanine [Mellanox ConnectX-3] (optional) (1) Quanta 56GbE 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] Quanta LSI SAS 2008 mezzanine card (optional) Quanta LSI SAS 2108 mezzanine card (optional) Quanta LSI SAS 2208 mezzanine card (optional) Quanta LSI SAS 2308 mezzanine card (optional)	
Memory	(24) DDR3 800/1066/1333/1600/1866 MHz RDIMM/LRDIMM slots	
Drive Bay	(24) 2.5" or (12) 3.5" SATA/SAS hot-plug HDD/SSD bays (2) 2.5" 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 x16 G3 riser slot for low-profile card or (2) PCIe x8 G3 riser slot for low-profile card (1) PCIe x4 G3 riser slot for low-profile card (2) PCIe x8 G3 riser slots for low-profile card (1) PCIe x8 G3 10 GbE SFP+ mezzanine card slot and (1) PCIe x8 G3 Quanta LSI SAS/RAID mezzanine slot or (2) PCIe x8 G3 riser slots for low-profile card	
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] Quanta LSI SAS 2008 mezzanine card for RAID 0/1/10 (optional) Quanta LSI SAS 2308 mezzanine card for RAID 0/1/10 (optional)	
HW RAID Options	Quanta LSI SAS 2108 mezzanine card for RAID 0/1/10/5 (optional) Quanta LSI SAS 2108 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional) Quanta LSI SAS 2208 mezzanine card for RAID 0/1/10/5 (optional) Quanta 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 10G BASE-T RJ45 ports (1) Quanta GbE RJ45 dual port mezzanine card [Intel® I540 controller] (optional)	
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 10G 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: 10°C to 35°C (50°F to 95°F) Non-operating temperature: -40°C to 70°C (-40°F to 158°F) Operating relative humidity: 50% to 90%RH Non-operating relative humidity: 20% to 95%RH	



QCT LLC.
47709 Fremont Boulevard, Fremont CA 94538
E-mail: sales@QuantaQCT.com Main: 510-270-6111 Fax: 510-270-6161
Toll Free: 1-855-QCT-MUST

For more information, please visit <http://www.QuantaQCT.com>
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