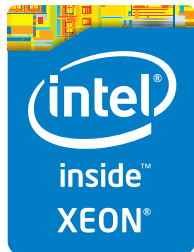


# STRATOS S210 Series S210-X12MS



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

# Quanta

Quanta STRATOS S210-X12MS is Intel® Xeon® processor E5-2600/ E5-2600 v2 product family-based server platform optimized for the demands of the densest 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 over 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

Quanta 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 hard drives. Datacenters could choose different levels of storage from 3Gb/ 6Gb SATA/ SAS 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. In addition to two onboard GbE ports, it also supports two optional onboard 10GbE SFP+ ports. Expansion option includes 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.

### 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.

# STRATOS S210 Series S210-X12MS



|                                     |  |                                  |   |
|-------------------------------------|--|----------------------------------|---|
| <b>Form Factor</b><br>( L x W x H ) | 1U Chassis<br>728mm x 438mm x 43.2mm<br>28.66" x 17.24" x 1.7"   | <b>Management Port</b>           | (1) Dedicated GbE RJ45 management port  |
| <b>MB Size</b><br>( W x L )         | 304.8mm x 330.2mm<br>12" x 13"<br>SSI EEB form factor  | <b>Integrated Graphics (BMC)</b> | Aspeed AST2300 8MB DDR3 video memory  |
| <b>Processor</b>                    | (2) Intel® Xeon® processor E5-2600 v2 product family   | <b>Front I/O</b>                 | Power/ID/Reset Buttons, LEDs  |
| <b>Chipset</b>                      | Intel® C602 chipset  | <b>Rear I/O</b>                  | (4) USB 2.0 ports<br>(1) VGA port<br>(1) RS232 serial port<br>(2) GbE ports<br>(1) GbE RJ45 management port<br>(2) 10Gb SFP+ ports (optional)   |
| <b>SAS Controller</b>               | <b>[Intel® SAS controller] &lt;SAS 3G&gt;</b><br>Intel® C602 upgrade ROM #1 (optional)<br>Intel® C602 upgrade ROM #2 (optional)<br>Intel® C602 upgrade ROM #5 (optional)<br>Intel® C602 upgrade ROM #6 (optional)<br>Intel® C602 upgrade ROM #9 (optional)<br>or<br><b>[LSI SAS controller] &lt;SAS 6G&gt;</b><br>Quanta LSI SAS 2008/2308 mezzanine card (optional)<br>Quanta LSI SAS 2108/2208 mezzanine card (optional)   | <b>Power Supply</b>              | (1) 650W high efficiency fixed PSU, 100-240VAC 50/60Hz  |
| <b>Memory</b>                       | (16) DDR3 800/1066/1333/1600/1866 MHz RDIMM/LRDIMM slots   | <b>TPM</b>                       | Yes (optional)  |
| <b>Drive Bay</b>                    | (10) 2.5" SATA/SAS hot-plug HDDs or (4) 3.5" SATA/SAS hot-plug HDDs  | <b>RoHS Compliance</b>           | Yes   |
| <b>Onboard Storage Device</b>       | (8) SATA connectors signal from Intel® C602 (SCU)<br>(5) SATA connectors signal from Intel® C602 (AHCI)<br>(1) 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:<br>10°C to 35°C (50°F to 95°F)<br>Non-operating temperature:<br>-40°C to 70°C (-40°F to 158°F)<br>Operating relative humidity:<br>50% to 90%RH<br>Non-operating relative humidity:<br>20% to 95%RH |
| <b>PCIe Expansion Slot</b>          | (1) PCIe x16 G3 slot for low-profile card or Quanta mezzanine card   |                                  |   |
| <b>SW RAID Options</b>              | <b>[Intel® SW RAID]</b><br>Intel® RSTe SATA RAID 0/1/10 (AHCI HDD)<br>Intel® C602 upgrade ROM #1 RAID 0/1/10 for 4 SCU ports (optional)<br>Intel® C602 upgrade ROM #2 RAID 0/1/10/5 for 4 SCU ports (optional)<br>Intel® C602 upgrade ROM #5 RAID 0/1/10 for 8 SCU ports (optional)<br>Intel® C602 upgrade ROM #6 RAID 0/1/10/5 for 8 SCU ports (optional)<br>Intel® C602 upgrade ROM #9 SATA RAID 0/1/10/5 for 8 SCU ports (optional)<br>or<br><b>[LSI SW RAID]</b><br>Quanta LSI SAS 2008/2308 mezzanine card for RAID 0/1/10 (optional) |                                  |   |
| <b>HW RAID Options</b>              | Quanta LSI SAS 2108 mezzanine card for RAID 0/1/10/5/50 (optional)<br>Quanta LSI SAS 2108 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional)<br>Quanta LSI SAS 2208 mezzanine card for RAID 0/1/10/5/50 (optional)<br>Quanta 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 1GbE RJ45 ports<br>(2) Intel® 82599 onboard 10GbE SFP+ ports (optional)  |                                  |   |



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>  
All specifications and figures are subject to change without prior notice.  
Actual products may look different from the photos.  
Quanta and the Quanta logo are registered trademarks of Quanta Computer Inc.  
Intel, the Intel logo, Xeon, and the Xeon inside are trademarks or registered trademarks of Intel Corporation in the U.S. and/or other countries.  
All trademarks and logos are the properties of their representative holders.  
Copyright ©2013 Quanta Computer Inc. All rights reserved.