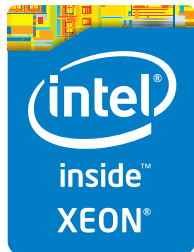


STRATOS S810 Series S810-X52L



Ultra Dense High
Computing
Multi-node 2U
Rackmount Server

Quanta

Having 2 times the computing density of traditional 2-way servers, the Quanta STRATOS S810-X52L is the densest multi-node 2U server in the market. There are total four individual 2-socket server nodes in a 2U rack chassis with node capable of populating up to 16 DIMM slots. The system remarkably features extremely high density, unsurpassed performance, and energy efficiency from shared power and cooling modules. The S810-X52L is Intel® Xeon® processor E5-2600/ E5-2600 v2 product family-based server platform, boosting its general performance by up to 80% over a previous generation Intel® Xeon® processor-based server, making it ideal for HPC, clustering, cloud infrastructure and datacenters demanding high computing and memory density.



Ultra-Dense Design with High Computing and Low Energy Draw

The STRATOS S810-X52L contains four independent hot-pluggable half-sized server nodes. Each node supports up to two 12-core Intel® Xeon® processor E5-2600/E5-2600 v2 product family and 16 DDR3 DIMMs, which is the densest 2U server populating totally 64 DIMM slots in the market. Each S810-X52L node 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. It also supports low-voltage DIMMs to lower datacenter operation costs with the least energy consumption and superb computing performance.

Shared Power and Cooling

The S810-X52L is designed to balance the usage of two hot-plug redundant power supplies, fans, backplanes to support an amazing four nodes density. The unique design provides remarkable energy/cooling efficiency and infrastructure investment savings.

Enhanced I/O Scalability and Flexibility

The S810-X52L multi-node server provides extraordinary flexible and scalable I/O configurations. It offers 2.5" and 3.5" 3Gb/6Gb SATA/SAS HDD or SSD options. Each node also provides extra option of USB flash module for OS installation. 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, one standard PCIe x16 slot, and one PCIe x16 mezzanine slot for SAS/RAID or 10GbE SFP+ adaptor. 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 S810 series servers are designed for large/medium-size datacenters & cloud service providers with lower CAPEX, OPEX, and satisfying overall performance.

STRATOS S810 Series

S810-X52L



Form Factor (L x W x H)	2U chassis 774.7mm x 447mm x 87.3mm 30.5" x 17.6" x 3.44"	Network	(2) Intel® I350 GbE RJ45 ports or (2) Intel® X540 10G BASE-T RJ45 ports per node (1) Quanta 10Gb SFP+ dual port mezzanine card per node (optional)
MB Size (W x L)	165mm x 492.3mm 6.5" x 19.38" (half-width) Up to 4 independent nodes in a 2U chassis	Management Port	(1) Dedicated 10/100 BASE-T RJ45 management port per node
Processor	(2) Intel® Xeon® processor E5-2600/E5-2600 v2 product family per node	Integrated Graphics (BMC)	Aspeed AST2300 8MB DDR3 video memory
Chipset	Intel® C602 chipset	Rear I/O	(2) USB 2.0 ports per node (1) VGA port per node (1) RS232 serial port per node (2) GbE or 10G BASE-T RJ45 ports per node (1) 10/100 BASE-T RJ45 management port per node
SAS Controller	[Intel® SAS controller] <2.5" SKU> Intel® C602 upgrade ROM #5 (optional) Intel® C602 upgrade ROM #6 (optional) <3.5" SKU> Intel® C602 upgrade ROM #1 (optional) Intel® C602 upgrade ROM #2 (optional) or [LSI SAS controller] Quanta LSI SAS 2008/2308 Mezzanine card (optional) Quanta LSI SAS 2108/2208 Mezzanine card (optional)	Power Supply	(1) 1400W high efficiency PSU, 200-240VAC 50/60Hz (1) 1400W high efficiency redundant PSU, 200-240VAC 50/60Hz (optional)
Memory	(16) DDR3 1066/1333/1600/1866 MHz ECC RDIMM slots per node	TPM	No
Drive Bay	(6) 2.5" SATA/SAS hot-plug HDDs per node or (3) 3.5" SATA/SAS hot-plug HDDs per node	RoHS Compliance	Yes
Onboard Storage Device	(2) miniSAS connectors signal from Intel® C602 per node (1) USB connector for USB Flash Module per node (optional)	System Management	IPMI v2.0 compliant, on board "KVM over IP" support
HDD Backplane	1 to 1	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
PCIe Expansion Slot	(1) PCIe x16 G3 riser slot for low-profile card per node (1) PCIe x16 G3 slot for Quanta LSI SAS/RAID or 10GbE SFP+ mezzanine card per node		
SW RAID Options	[Intel® SW RAID] <2.5" SKU> 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) <3.5" SKU> Intel® C602 upgrade ROM #1 RAID 0/1/10 for 4 SCU ports (optional) Intel® C602 upgrade ROM #2 SAS RAID 0/1/10/5 for 4 SCU ports (optional) or [LSI SW RAID] Quanta LSI SAS 2008/2308 mezzanine card for RAID 0/1/10 (optional)		
HW RAID Options	Quanta LSI SAS 2108/2208 PD-32 mezzanine card for RAID 0/1/10/5 (optional) Quanta LSI SAS 2108/2208 PD-32 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional)		



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