STRATOS S810 Series
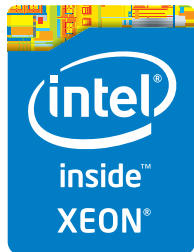# S810-X52LR

Cluster-in-a-Box Server Provides In-chassis Shared Storage

Designed for applications that require a highly available storage configuration, the STRATOS S810-X52LR is a 2U 2-node Cluster-in-a-Box server. Two server nodes are clustered via a GbE interconnection and sharing 12 disk drives in a 2U chassis. One of the SKUs offers PCIe Gen3 switch to support On-The-Fly cache synchronization. Each node is equipped with dual Intel® Xeon® processor E5-2600 /E5-2600 v2 product family and 16 DIMM slots. Its clustered nodes and shared storage design simplifies cable management and saves rack space by eliminating the need for external shared storage. In addition, the shared infrastructure design provides excellent power and cooling efficiency, as well as infrastructure investment savings.

Clustered nodes and shared storage design offers high density, high availability, simplified cable management, and energy savings

Two server nodes are interconnected with a heartbeat channel and can be configured as an active/active operation by storage software for applications demanding high availability. Both nodes share the same in-chassis storage space, offering space and complexity reductions compared to traditional clustered solutions that require external shared disk enclosure, numerous network cables, and complex system configurations.

Shared infrastructure design delivers energy & cooling efficiency

Both server nodes share the same chassis, redundant power supplies, and fan modules, which delivers energy and cooling efficiency, as well as infrastructure investment savings.

Enhanced I/O Scalability and Flexibility

The STRATOS S810-X52LR provides flexible and scalable I/O configurations. Its onboard network offers dual GbE or dual 10GbE RJ45 port options. Expansion options include (I) one standard PCIe slot plus one PCIe mezzanine slot for SAS/RAID or 10GbE SFP+ adaptor or (II) three standard PCIe low-profile slots.

On-The-Fly Cache Synchronization

The STRATOS S810-X52LR offers one SKU equipped with PCIe switch interconnection and NTB (not-Transparent Bridge) technology. This architecture allows storage software vendors to implement enterprise-level cluster functions with rapid cached synchronization to meet their high availability requirements.

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

STRATOS S810 Series
S810-X52LR

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Form Factor (L x W x H)	X5 (2U chassis) 774.7mm x 447mm x 87.3mm 30.5" x 17.6" x 3.44"
MB Size (W x L)	6.5" x 19.38" (half-width)
Processor	(2) Intel® Xeon® processor E5-2600/E5-2600 v2 product family per node
Chipset	Intel® C602 Chipset
Memory	(16) DDR3 1333/1600 MHz ECC RDIMM slots per node
Storage	(12) 2.5" or 3.5" hot-plug HDD bays per system (2) 2.5" internal HDD bays for OS installation per node Note: Only SAS supported with shared storage
Raw Capacity	Up to 48TB of internal capacity and can expand another 240TB externally with (1) QCT MESOS M4600H disk enclosure
PCIe Expansion Slot	*<1PCIe + 1Mezz SKU>* (1) PCIe G3 x8 riser slot and (1) Mezz slot per node *<3PCIe SKU>* (3) PCIe G3 x8 riser slots per node Note: If using internal HDDs with the HDD bracket, one PCIe slot will not be accessible
Network	(2) Intel® I350 GbE RJ45 ports per node or (2) Intel® X540 10G Base-T RJ45 ports per node
Node Interconnection	Intel® I350AM2 (SerDes x1) PLX® PEX 8712 PCIe Switch (in PCIe switch SKU)
Management Port	(1) dedicated 10/100 Base-TX RJ45 management port per node
Hardware Management	IPMI v2.0 compliant, on board "KVM over IP" support
Integrated Graphics (BMC)	Aspeed AST2300 8MB DDR3 video memory
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 (1) External Mini-SAS port per node

Power Supply	(2) 1100W high efficiency 80plus platinum redundant PSUs, 100-240VAC 50/60Hz
OS supported	Windows Storage Server 2012, VMWare, Ubuntu, Red Hat, Solaris
RoHS	Yes
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	2.5":26.4 Kg ;3.5": 32.1 Kg

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