STRATOS S400 Series
S400-X44E

Performance & Cost Optimized 4-Socket Server

Quanta®

intel® inside™
Xeon®
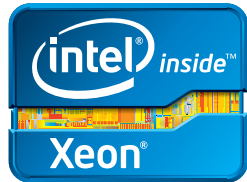
The QCT STRATOS S400-X44E is a 4-socket 4U server powered by Intel® Xeon® processor E5-4600 family. It features significant performance with up to 32 processor cores, 48 memory DIMM lots, 8 2.5" hot-plug drives, 9 PCIe expansion sockets , and GbE/10GbE/infiniband networking options. These rich features make the STRATOS S400-X44E system a perfect hardware solution for fast growing businesses that demand higher computing power and memory to run mission-critical applications or better handle large workloads. When considering extending the value into 4-socket servers, QCT STRATOS S400-X44E definitely can provide you with higher reliability and flexibility you need today with plenty of room to grow for tomorrow.

Upgrade with Higher Computing Performance
The QCT STRATOS S400-X44E is a high density 4-socket rackmount server, supporting up to four 8-core Intel® Xeon® processor E5-4600 family and 48 DIMM slots. It increases up to 75% computing performance and 2 times of memory & I/O performance compared with Intel® Xeon® E5-2600 2-socket servers. It also offers a significant boost in FLOPs, plus its large memory of up to 48 DIMM slots, making the system ideal for HPC, mission-critical and any computing power/memory constrained applications such as ERP, CRM, memcached, data analysis, and virtualization.

Impressive I/O and Networking Scalability
The STRATOS S400-X44E offers I/O scalability to meet datacenters' diverse applications. Its onboard network has choices between two GbE or 10GbE RJ45 ports. Furthermore, expansion options include onboard Intel® SAS/RAID upgrade ROM, four PCIe x16 slots, three PCIe x8 slots, one PCIe x4 slot, and one dedicated x8 mezzanine slot for SAS/RAID, 10GbE SFP+, or infiniband capability. The flexibility allows datacenters to deploy the server configured ideally for their unique IT environments. By supporting PCIe 3.0, it improves I/O bandwidth up to 2x from previous generation servers. I/O latency is also dramatically reduced with Intel® integrated I/O technology, which helps datacenters to eliminate data bottlenecks, streamline operations, and increase agility.

High Availability
QCT STRATOS S400-X44E provides high-scale system reliability and availability by redundant power supply (3+1) and redundant cooling modules, both designed with hot-swap capability. Datacenters can gain a competitive advantage with increased IT productivity, flexibility, and systems manageability. It is an ideal solution that you can count on now and in the future.

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 S400 Series
S400-X44E

Form Factor (L x W x H)	X4 (4U Chassis) 704mm x 424mm x 173.8mm 27.71" x 16.69" x 6.8"
MB Size (W x L)	414.6mm x 520.7mm 16.3" x 20.5"
Processor	(4) Intel® Xeon® processor E5-4600 product family
Chipset	Intel® C602 chipset
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) or **[LSI SAS controller] <SAS 6G>** QCT LSI SAS 2008/2308 mezzanine card (optional) QCT LSI SAS 2108/2208 mezzanine card (optional)
Memory	(48) DDR3 800/1066/1333/1600 MHz ECC RDIMM/LRDIMM slots
Storage	(8) 2.5" hot-plug HDDs
Onboard Storage Device	(2) miniSAS connectors singal from Intel® C602 chipset (2) SATA connectors singal from Intel® C602 chipset (1) Optical device (optional) (1) Tape drive (optional)
HDD Backplane	1 to 1
PCIe Expansion Slot	(4) PCIe x16 G3 slots in x16 bus (1) PCIe x16 G3 slot in x8 bus (2) PCIe x8 G3 slots in x8 bus (1) PCIe x8 G3 slot in x4 bus (1) PCIe x8 G3 slot for QCT LSI SAS/RAID, 10GbE SFP+, Infiniband mezzanine card
SW RAID Options	**[Intel® SW RAID]** Intel® RSTe SATA RAID 0/1/10 (AHCI HDD) or **[LSI SW RAID]** QCT LSI SAS 2008/2308 mezzanine card for RAID 0/1/10 (optional)
HW RAID Options	QCT LSI SAS 2108/2208 mezzanine card for RAID 0/1/10/5 (optional) QCT LSI SAS 2108/2208 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional)
Network	(2) Intel® I350 GbE RJ45 ports (1) QCT 10GbE SFP+ dual port mezzanine card (optional) (1) QCT Mellanox Infiniband dual port mezzanine card (optional FDR, QDR, 40GbE)
Management Port	(1) Dedicated GbE RJ45 management port

Integrated Graphics (BMC)	Aspeed AST2300 8MB DDR3 video memory
Front I/O	(3) USB 2.0 ports (1) VGA port
Rear I/O	(2) USB 2.0 ports (1) VGA port (1) RS232 serial port (2) GbE or 10GbE Base-T RJ45 ports (1) GbE RJ45 management port
Power Supply	(3) 1100W high efficiency PSUs, 100-240 VAC 50/60Hz (1) 1100W high efficiency redundant PSU, 100-240 VAC 50/60Hz (optional)
TPM	Yes (optional)
RoHS	Yes
System Management	IPMI v2.0 compliant, on board "KVM over IP" support
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 Weigth	57.11 Kg

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Optimize Your Datacenter