

STRATOS S400 Series S400-X44E

Performance & Cost
Optimized 4-Socket Server



Quanta 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 SAS/SATA 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 are demanding higher computing power & memory to run mission-critical applications or better handle large workloads. When considering extending the value into 4-socket servers, Quanta 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

Quanta 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. Besides, it highly improves FLOPs, plus its large memory of up to 1.5TB, making the system ideal for HPC, mission-critical and any computing power/memory constrained applications such as ERP, CRM, memcached, data analysis, and virtualization.

Great I/O and Networking Scalability

The STRATOS S400-X44E has great 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 best deploy their IT environments. 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 technology, which helps datacenters to eliminate data bottlenecks, streamline operations, and increase agility.

High Availability

Quanta 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 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.

Quanta, Leading Datacenter Solution Provider

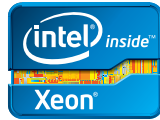
For years, Quanta has successfully developed and customized its advanced engineered products for enterprise datacenters, service providers, and top-tier multinational firms worldwide. Based on the rich experiences, Quanta is dedicated on development of "best Performance-per-Watt and per-Dollar" solutions to fulfill ever-growing datacenter demands for all budgets. The STRATOS S400 series servers are designed for large/medium-size datacenters & cloud service providers with lower CAPEX, OPEX, and satisfying overall performance.

Quanta



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> Quanta LSI SAS 2008/2308 mezzanine card (optional) Quanta LSI SAS 2108/2208 mezzanine card (optional)
Memory	(48) DDR3 800/1066/1333/1600 MHz ECC UDIMM/RDIMM/LRDIMM slots
Drive Bay	(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 Quanta 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] Quanta LSI SAS 2008/2308 mezzanine card for RAID 0/1/10 (optional)
HW RAID Options	Quanta LSI SAS 2108/2208 PD-8 mezzanine card for RAID 0/1/10/5 (optional) Quanta LSI SAS 2108/2208 PD-8 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 10GbE BASE-T RJ45 ports (1) Quanta 10GbE SFP+ dual port mezzanine card (optional) (1) Quanta 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



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