

STRATOS S215 Series S215-X12KS

2-Socket 32-Core High Computing 1U Server



Quanta STRATOS S215-X12KS is AMD Opteron™ 6200 series processor-based server platform optimized for the demands of the computing-constrained datacenter environments. It supports up to two 16-core AMD processors, up to 512GB of memory and large storage capability in a 1U form factor, providing the highest core density and computing power to handle demanding multi-threaded workloads such as cloud computing, high performance computing (HPC), databases and business applications.

Maximum Computing Performance

Quanta STRATOS S215-X12KS is a 2-socket rackmount server, featuring two AMD Opteron™ 6200 series processors with up to 32 processor cores, and 16 DIMM slots in a 1U chassis. It delivers maximum computing power with 33% more cores and enables 20% more memory bandwidth than the previous AMD 2-socket servers. The S215-X12KS is perfectly designed to improve overall system balance and handle your most demanding workloads with superb stability, efficiency, long-term value, and remarkable price-performance advantage ideally for compute-intensive environments such as high performance computing.

High Storage Flexibility

Quanta STRATOS S215-X12KS amazingly supports up to 12 hard drives and provides many storage combinations in a 1U chassis. Choices include four 3.5" SATA/SAS hot-plug hard drives plus one 2.5" fixed SATA SSD, or ten 2.5" SATA/SAS hot plug hard drives plus two 2.5" fixed SATA drives. In addition, the S215-X12KS also offers an optional SATADOM for OS installation. Datacenters could choose different levels of storage from 3Gb/6Gb SATA/SAS, or enterprise SSD drives to create optimal storage solutions for different business applications.

Enhanced I/O Scalability

The STRATOS S215-X12KS has great I/O scalability to meet datacenters' diverse applications. It offers two onboard GbE RJ45 ports; expansion options include one standard PCIe x8 Gen2 slot and two dedicated x8 mezzanine slots for SAS/RAID, GbE, 10GbE BASE-T RJ45, or 10GbE SFP+ adaptors. The flexibility allows datacenters to best deploy their IT environments.

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 S215 series servers are designed for large/medium-size datacenters & cloud service providers with lower CAPEX, OPEX, and satisfying overall performance.

Quanta



STRATOS S215 Series S215-X12KS



Form Factor (L x W x H)	X1 (1U Chassis) 728mm x 438mm x 43.2mm 28.66" x 17.24" x 1.7"
MB Size (W x L)	166.37mm x 416.56mm 6.55" x 16.4"
Processor	(2) AMD Opteron™ 6200 Series Processors
Chipset	AMD SR5670+SP5100R
SAS Controller	[LSI SAS controller] <SAS 6G> Quanta LSI SAS 2008/2308 mezzanine card (optional) Quanta LSI SAS 2108/2208 mezzanine card (optional)
Memory	(16) DDR3 800/1066/1333 MHz ECC UDIMM/RDIMM/LRDIMM slots
Drive Bay	(4) 3.5" SATA/SAS hot-plug HDDs + (1) 2.5" fixed SATA SSD or (10) 2.5" SATA/SAS hot-plug HDDs + (2) 2.5" SATA fixed HDDs
Onboard Storage Device	(5) SATA connectors signal from SP5100R (1) SATA connector signals from SP5100R for optional SATADOM
HDD Backplane	1 to 1 and expander
PCIe Expansion Slot	(1) PCIe x8 G2 slot for low-profile card (1) PCIe x8 G2 slot for Quanta GbE, 10GbE RJ45, or 10 GbE SFP+ mezzanine card (1) PCIe x8 G2 slot for Quanta LSI SAS/RAID mezzanine card
SW RAID Options	SP5100R with Dothill RAID 0/1/10
HW RAID Options	<3.5"> Quanta LSI SAS 2108 PD-8 mezzanine card for RAID 0/1/10/5 (optional) Quanta LSI SAS 2108 PD-8 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional) <2.5"> Quanta LSI SAS2108 PD-16 mezzanine card for RAID 0/1/10/5 (optional) Quanta LSI SAS2108 PD-16 mezzanine card + LSI RAID 6 Key for RAID 0/1/10/5/6/50/60 (optional)
Network	(2) Intel® 82576 GbE RJ45 ports (1) Quanta Intel® I350 GbE RJ45 dual port mezzanine card (optional) (1) Quanta Intel® X540 10GbE RJ45 dual port mezzanine card (optional) (1) Quanta 10GbE SFP+ dual port mezzanine card (optional)
Management Port	(1) Dedicated GbE RJ45 management port
Integrated Graphics (BMC)	Aspeed AST2050 8MB DDR3 video memory

Rear I/O	(2) USB 2.0 ports (1) VGA port (1) RS232 serial port (2) GbE RJ45 ports (1) GbE RJ45 management port
Power Supply	(2) 750W redundant PSUs, 100-240VAC 50/60Hz
RoHS	Yes
System Management	IPMI v2.0 compliant, on board "KVM over IP" support



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