

STRATOS S900 Series S900-X31A

Extremely Low Power, High
Density 3U Microserver



With 24 server nodes within a compact 3U chassis, the Quanta STRATOS S900-X31A is the most advanced microserver built upon Intel® Atom™ processor S1200 product family which supports 64-bit computing architecture and ECC memory at the enterprise-graded environment. S900-X31A delivers dramatic efficiency of power that measured at less than 10 Watts per node, with its industry leading thermal and space design. It is optimized for the applications of dedicated web hosting and hyper-scale workloads.

High Density and Simplicity

S900-X31A is designed with one goal: Simplify datacenter operation by increasing its density and reducing its complex cabling. One Quanta S900-X31A microserver contains 12 cable-free, hot-pluggable sleds that are independently operative. Each sled has 2 server nodes powered by Intel® Atom™ processor S1200 product family for microservers; each node supports up to 8 GB of memory, two 2.5" internal SATA hard drives, and one GbE RJ45 port.

Manageability

All server nodes can share one console port and two 10GbE SFP+ ports for uplink via an optional switch board. Besides, comparing to other solutions' isolated management design, Quanta's Microserver requires users only to attach one network cable on a dedicated management port to manage all nodes. Quanta innovative internal Ethernet switching board and integrated management design not only greatly simplify the cable management and make the remote management much easier for datacenters, but also reduce the OPEX & CAPEX by eliminating extra Top-of-Rack switch & network cable equipment needs.

Everything Goes Efficient

S900-X31A shares components including fans, power supplies, and Ethernet switch in a Quanta X3 3U chassis. Plus support of extremely low power processors, the STRATOS S900-X31A dramatically lowers power consumption and increases heat dissipation. The shared infrastructure design makes S900-X31A especially attractive for datacenters with limited power and space. Therefore, the microserver not only largely cuts cost, but also dramatically saves energy, datacenter floor space, and cabling to achieve greater performance/watt, performance/dollar, and performance/ft3 compared to traditional 1U 1-socket servers.

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 S900 series servers are designed for hosting companies, CDN, and other cloud service providers with lower CAPEX, OPEX, and satisfying overall performance.

Quanta



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Form Factor (L x W x H)	X3 (3U Chassis), 12 sleds/ 24 nodes 758mm x 447mm x 130.8mm (29.8" x 17.6" x 5.1")
MB Size (W x L)	254mm x 118.88mm (10" x 4.7")
Processor	(1) Intel® Atom™ processor S1200 product family for microservers per node
Memory	(1) DDR3 1067/1333 MHz ECC SODIMM slot per node, up to 8GB
Drive Bay	(2) 2.5" SATA II HDDs per node
Onboard Storage Device	(2) SATA connectors signal from Marvell 88SE9130 per node
Network	(1) Intel® I350 GbE RJ45 port per node, share NIC 10/100 Mbps for management (2) 10GbE SFP+ ports for uplink on chassis via a system switch board (optional)
Management Port	(1) Share NIC GbE10/100 Mbps for management per node (1) Dedicated 10/100 Mbps RJ45 management port on the system
Integrated Graphics (BMC)	Aspeed AST2300M 8MB DDR3 video memory
Front I/O	(1) Mini-USB port per node (1) GbE RJ45 port per node (1) 10/100 BASE-T RJ 45 management port on chassis (1) Console port on chassis (optional) (2) 10GbE SFP+ ports on chassis via a switch board (optional)
Power Supply	(2) 1600W high efficiency redundant PSUs, 80+ Platinum@200-240 VAC, 50/60Hz
TPM	Yes
RoHS	Yes
System Management	IPMI v2.0 compliant, on board "KVM over IP" support
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 85%RH Non-operating relative humidity: 20% to 95%RH



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