

STRATOS S910 Series S910-X31E

Quanta®



High Density and
Energy Efficient
3U Microserver



Up to 9 or 12 server nodes sharing a compact 3U chassis, the Quanta STRATOS S910-X31E is a highly-dense microserver built upon Intel® Xeon® processor E3-1200 v3 product family. It takes full advantage of Intel's latest 22nm technology, delivering dramatic efficiency of power, cooling, space, and cost savings as well as intelligent and dependable performance. It has 4 times the computing density of 3 traditional one-socket 1U servers stacked together.

Enhances Manageability and Reduces TCO

The network across all server nodes is aggregated into two 10GbE SFP+ ports for uplink through an internal switch, reduces CAPEX by eliminating extra Top-of-Rack switch & network cables as well as simplifies cable management. In addition, all nodes can be managed through one single management port on the chassis, making the remote management much easier for datacenters.

Energy Efficiency and Lower OPEX

By sharing power supplies and cooling modules across all server nodes, the STRATOS S910-X31E enhances energy efficiency and reduces operation expenses.

Serviceability

All nodes and power supplies are cold aisle accessible to avoid maintenance in hot aisle. Besides, all nodes, power supplies and fans are hot pluggable, providing better serviceability.

Target Applications

The S910-X31E is optimized for dedicated hosting, cloud computing, big data workloads, content delivery network, and front-end servers for hosting web pages, etc.

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 S910 series servers are designed for hosting companies, CDN, and other cloud service providers with lower CAPEX, OPEX, with satisfying overall performance.

Product Highlights

- High density design with up to 12 nodes in a 3U chassis
- Supports Intel® Xeon® processor E3-1200 v3 product family with best performance in the class
- Enhances manageability and reduces TCO with internal switch
- Shared infrastructure for better energy efficiency and lower OPEX

STRATOS S910 Series S910-X31E



	S910-X31E (9 nodes)	S910-X31E (12 nodes)
Form Factor (L x W x H)	3U Chassis 756.9mm x 447mm x 129.5mm (29.8" x 17.6" x 5.1")	
MB Size (W x L)	254mm x 119.4mm (10" x 4.7")	
Processor	(1) Intel® Xeon® processor E3-1200 v3 family per node, up to 84W	(1) Intel® Xeon® processor E3-1200 v3 family per node, up to 65W
Chipset	Intel® C226 chipset	
SAS Controller	Quanta LSI SAS 2308 mezzanine card per node (optional)	N/A
Memory	(4) DDR3 1333/1600 MHz ECC UDIMM slots per node, up to 32GB	(4) DDR3 1333/1600 MHz ECC VLP UDIMM slots per node, up to 32GB
Drive Bay	(4) 2.5" or (2) 3.5" fixed SASII/SATAIII HDDs per node	(4) 2.5" or (2) 3.5" fixed SATAIII HDDs per node
Onboard Storage Device	(4) SATA connector signal from Intel® C226 per node (1) SATA connector signals from Intel® C226 for optional SDHC per node	
PCIe Expansion Slot	(1) PCIe x8 G3 slot per node for Quanta LSI SAS/RAID or 10GbE SFP+ mezzanine card	N/A
SW RAID Options	[Intel® SW RAID] <2.5"> Intel® C226 RAID 0/1/10/5 <3.5"> Intel® C226 RAID 0/1 [LSI SW RAID] Quanta LSI SAS 2308 mezzanine card for RAID 0/1/10 (optional)	[Intel® SW RAID] <2.5"> Intel® C226 RAID 0/1/10/5 <3.5"> Intel® C226 RAID 0/1
Network	(2) Intel® Powerville I350 GbE RJ45 ports per node, share NIC 10/100 Mbps for management on NIC1 (1) Quanta 10GbE SFP+ single port mezzanine card per node (optional) (2) 10GbE SFP+ ports for uplink on chassis via a system switch board (optional)	(2) Intel® Powerville I350 GbE RJ45 ports per node, share NIC 10/100 Mbps for management on NIC1 (2) 10GbE SFP+ ports for uplink on chassis via a system switch board (optional)
Management Port	(1) Dedicated 10/100 BASE-T RJ45 management port on chassis	
Integrated Graphics (BMC)	Aspeed AST2300 8MB DDR3 video memory	
Front I/O	(2) USB 2.0 + (1) VGA (by Y cable) per node (2) GbE RJ45 ports per node (1) 10GbE SFP+ port per node (optional) (1) 10/100 BASE-T RJ45 management port on chassis (1) Console port + (2) 10GbE SFP+ ports for uplink on chassis via an internal switch (optional)	(2) USB 2.0 + (1) VGA (by Y cable) per node (2) GbE RJ45 ports per node (1) 10/100 BASE-T RJ45 management port on chassis (1) Console port + (2) 10GbE SFP+ ports for uplink on chassis via an internal switch (optional)
Power Supply	(2) High efficiency redundant 1200W PSUs, 80+ Platinum	
TPM	Yes (optional)	
RoHS	Yes	
Intel® Node Management support	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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