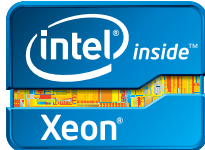


# STRATOS S910 Series S910-X31B

High Efficient, Dependable,  
and Intelligent 3U Microserver



Up to 9 or 12 server nodes sharing a compact 3U chassis, the Quanta STRATOS S910-X31B is the most advanced microserver built upon Intel® Xeon® processor E3-1200/E3-1200 v2 product family. It takes full advantage of Intel's latest 22nm-manufacturing technology, delivering dramatic efficiency of power, cooling, space, and cost savings as well as intelligent and dependable performance to run all day, every day with access to online resources and critical business data. It has 4 times the computing density of 3 traditional one-socket 1U servers stacked together. With its specific multi-node design, the S910-X31B is optimized for the applications of dedicated hosting, front-end web, content delivery networks (CDN), and cloud computing.

## **Simplify, No Compromise**

The features of S910-X31B are simplified, and it gets everything to just meet specific needs of small and medium businesses & datacenters. One Quanta S910-X31B microserver contains 9 or 12 server nodes which are cable-free, hot-pluggable and independently operative. Each node is powered by one Intel® Xeon® processor E3-1200/E3-1200 v2 product family, supporting up to 69 Watt (12-node SKU) and 95 Watt (9-node SKU) TDPs, 32GB of memory, two 3.5" or four 2.5" internal SAS/SATA hard drives, and two GbE RJ45 ports. The 9-node version provides more flexibility and scalability with one PCIe G2/G3 x8 expansion slot for SAS or 10GbE SFP+ capability in each server node.

## **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 the user only to attach one network cable on a dedicated management port to manage all nodes. Quanta's 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**

9 or 12 server nodes of S910-X31B share components including fans, power supplies, and Ethernet switch in a Quanta X3 3U chassis, the STRATOS S910-X31B dramatically lowers power consumption and increases heat dissipation. The shared infrastructure design makes it especially right-sized for power, space, and performance intensive datacenter environments. 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 S910 series servers are designed for hosting companies, CDN, and other cloud service providers with lower CAPEX, OPEX, and satisfying overall performance.

# Quanta



# STRATOS S910 Series

## S910-X31B



	S910-X31B (12 nodes)	S910-X31B (9 nodes)
Form Factor (L x W x H)	X3 (3U Chassis) 758mm x 447mm x 130.8mm ( 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/ E3-1200 v2 product family per node, up to 69W	(1) Intel® Xeon® Processor E3-1200/ E3-1200 v2 product family per node, up to 95W
Chipset	Intel® C204 chipset	
SAS Controller	NA	Quanta LSI SAS 2308 mezzanine card (optional)
Memory	(4) DDR3 1333/1600 MHz ECC VLP ECC UDIMM slots per node	(4) DDR3 1333/1600 MHz ECC UDIMM slots per node
Drive Bay	(2) 3.5" or (4) 2.5" fixed SATA HDDs per node	(2) 3.5" or (4) 2.5" fixed SATA/SAS HDDs per node
PCIe Expansion Slot	NA	(1) PCIe x8 G2/G3 slot for Quanta LSI SAS/RAID or 10GbE SFP+ mezzanine card per node <i>Note: G3 Only supports on processor E3-1200 v2 family</i>
SW RAID Options	<b>[Intel® SW RAID]</b> <2.5"> Intel® C204 RAID 0/1/10/5 <3.5"> Intel® C204 RAID 0/1	<b>[Intel® SW RAID]</b> <2.5"> Intel® C204 RAID 0/1/10/5 <3.5"> Intel® C204 RAID 0/1 or <b>[LSI SW RAID]</b> Quanta LSI SAS 2308 mezzanine card for RAID 0/1/10 (optional)
Network	(2) Intel® I350 GbE RJ 45 ports per node, share NIC 10/100 Mbps for management on NIC2 (2) 10GbE SFP+ ports for uplink on chassis via a system switch board (optional)	(2) Intel® I350 GbE RJ 45 ports per node, share NIC 10/100 Mbps for management on NIC2 (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)
Management Port	(1) Dedicated 10/100 BASE-T RJ45 management port on chassis	
Integrated Graphics (BMC)	Aspeed AST2050 8MB DDR2 video memory	
Front I/O	(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 a switch board (optional)	(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 a switch board (optional)
Power Supply	(2) high efficiency redundant PSU ,80+ Platinum@230VAC (meet EPA, CSCI) ; 1200W @ 200-240VAC, 1000W@100-127 VAC, 50/60Hz	
TPM	Yes (optional)	
RoHS	Yes	
Intel Node Management support	Yes	
System Management	IPMI v2.0 compliant, on board "KVM over IP" support	



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