

Sierra 3121

Quad Port 10GB Ethernet NIC

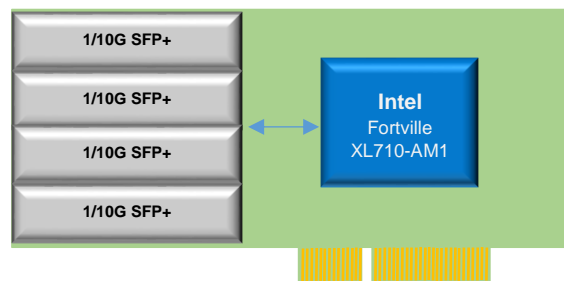
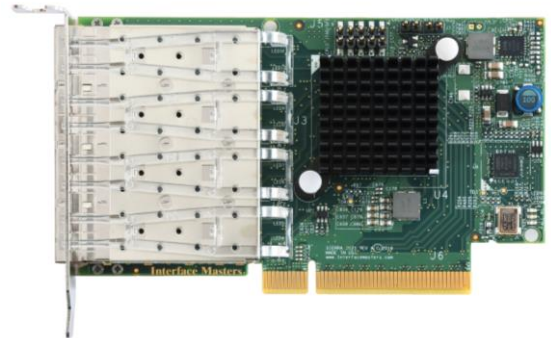
Product Brief

OVERVIEW

Sierra 3121 is a low profile quad port SFP+ Fiber NIC based on Intel's XL710 10Gb Ethernet Controller. Sierra 3121 is designed to integrate with PCI Express compatible servers and high-end appliances. Fully compatible with Intel drivers and Software Development Kits, Sierra 3121 supports high speed networking in mission-critical applications such as network security appliances, data analytics platforms, data center virtualization, clustered databases, Software Defined Networks and Network Function Virtualization services.

Sierra 3121 is a half-height, half-length server adapter. Using either a short or long bracket, Sierra 3121 can fit into either a low profile or high profile PCI-E slot. Interface Masters offers a wide selection of complimentary 1G/10G optical modules and Twin-Ax direct attach cables.

Interface Masters proudly designs and manufactures our products in the USA and provides tier 1 service for all of our products. Interface Masters offers quick turn hardware customization to meet a wide variety of requirements in a fast paced environment. Please contact us for a comprehensive discussion on your OEM or data center needs.



Block Diagram of Sierra 3121

PRODUCT FEATURES

- PCI-e x 8 Gen 3.0 compatible server adapter
- Quad-port SFP+ connector for multi-mode or single-mode support
- Peak bandwidth 8 GT/s in each direction per PCI Express lane
- Intel FTXL710-AM1 quad MAC & PHY Ethernet controller with DPDK support for networking, SDN and NFV application acceleration
- Virtualization support
- Integrated PHY for full and half-duplex 10Gb support
- TCP/UDP/IP checksum offload and TCP/UDP segmentation
- IEEE 802.1q, 802.3ab, 802.3x compliant
- Layer 2, 3 and 4 advanced packet filtering capabilities (IPv4, IPv6)
- Low profile form factor
- Low power consumption
- Full RoHS compliance
- FCC class A and CE certification

ENVIRONMENTAL	
Operating Temperature	0° to 40°C (32°F – 104°F)
Storage Temperature	-20°C – 65°C (-4°F – 149°F)
Operating Humidity	0% to 90%; non-condensing

DIMENSIONS		
	Millimeter	Inches
Length	114.30	4.50
Height	68.91	2.713

POWER CONSUMPTION		
Board	Power Consumption (W)	
	Maximum	Typical
Board	14.16	11.33

ORDERING INFORMATION	
Part Number	Description
NSA3121-E4-NSP0900AS	Sierra 3121 - Quad port 10G Ethernet adapter, PCI-E Gen 3 x8, Intel XL710 controller, no SFPs installed, half height, half length, short bracket installed
NSA3121-E4-NSP0900AL	Sierra 3121 - Quad port 10G Ethernet adapter, PCI-E Gen 3 x8, Intel XL710 controller, no SFPs installed, half height, half length, long bracket installed
SFP modules and direct attach cables	Contact Interface Masters for a full selection of SFP and SFP+ optical modules, and Twin-Ax direct attach cables

CUSTOMIZATION SERVICES

Hardware, Firmware, Linux O/S and application code development services are available.



ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a leading provider of high speed networking solutions focused on Gigabit, 10 Gigabit, 40 Gigabit and 100 Gigabit Ethernet networking solutions. For over 20 years, Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality. Company headquarters are located in San Jose, CA.

Address: 150 East Brokaw Rd., San Jose, CA 95112
 Phone: 408-441-9341
 Fax: 815-364-0888
 Email: sales@interfacemasters.com
 Web: www.interfacemasters.com

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 Rev A

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