

Overview

Niagara 32710 Low Profile Dual Port 10 Gigabit Ethernet Server Adapter is built on Intel's 82599 Ten Gigabit technology & Interface Masters' sterling design and customer service.

Niagara 32710 is designed with a built-in programmable bypass circuit to provide maximum uptime for the network. The bypass circuit takes the Niagara 32710 ports offline in case of either power or software failure. The bypass circuit works in absence of power.

Niagara 32710 Low Profile Dual Port 10 Gigabit Ethernet NIC is designed to integrate with PCI Express compatible servers and high-end appliances providing high speed networking and bypass/failover capabilities for any mission-critical application.



Features

- [Intel 82599EB Dual MAC & PHY Ethernet controller](#)
- Peak bandwidth 40 Gb/s in each direction on PCI Express Bus
- Handles 40 Gigabit per second traffic load
- Integrated PHY for full 10 Gbps Ethernet Support
- PCI-E x8 (Gen 2.0) compatible
- Two SFP+ Connectors for Multi-Mode or Single-Mode Support
- Option for 10GE/1GE Dual Speed Fiber Support (using special SFP modules)
- Passive Bypass which is essential during power loss or software failure
- Link Fault Detection (LFD) support
- Programmable "Fail-Closed" or "Fail-Open" while in the power-off state
- Programmable independent mode to function as a dual port 10 gigabit fiber card
- TCP/UDP/IP checksum offload and TCP segmentation
- Layer 2, 3 and 4 Advanced packet filtering capabilities (IPv4, IPv6)
- Efficient low profile form factor – 6.0 inches in length and 2.47 inches in height
- Low power consumption 12.5W maximum power
- Full RoHS compliance
- FCC Class A and CE certification

Component Specifications

The [Intel 82599EB](#) provides support for:

- PCI Express 2.0 (5 GT/s)
- Low Power 6.2W
- Protocols: TCP, UDP & SCTP
- Support for transmission and reception of packets up to 15.5 KBytes (Jumbo Frames)
- Optimized queues: 128 Transmit (Tx) and Receive (Rx)
- Enhanced Virtualization Support
 - » Intel® VT-c, VMDq and VMDc & PCI SIG IOV
- Intel® I/OAT Acceleration v3.0
 - » VM Direct Assignment (VT-d)
- Data Center Ethernet
 - » VLAN Tagging, Stripping and Packet Filtering (802.1q)
 - » Flow Interrupt Priority (802.3ar)
 - » Priority Grouping (802.1P)
 - » Auto-negotiation support (802.3ap)
 - » Integrated LinkSec security engines (802.1ae)
- End-to-End Congestion Mgmt (802.1 PAR)
- IEEE 1588/802.1as Support
 - » Time Manageability interfaces
 - ⇒ RMI, SMBus, PXE, iSCSI Boot
- Layer 2 & 3 Security: IPSec & LinkSec
- FCoE Transmit Segmentation and offload
- SNMP and RMON statistic counters

Environmental

Operating Temperature	0 to 40 °C (32 to 104 °F)
Storage Temperature	-20°C – 65°C (-4°F – 149°F)
Operating Humidity	5 to 85%
Airflow	200 lf/m

Dimensions

	mm	inches
Length	152.4	6.0
Height	62.738	2.47

Ordering Part Numbers

Part Number	Description
Niagara 32710-SR	Dual Port 10 Gigabit NIC with bypass with SFP+ pluggable modules for Multi-Mode Fiber
Niagara 32710-LR	Dual Port 10 Gigabit NIC with bypass with SFP+ pluggable modules for Single-Mode Fiber

Product Line

- Network Interface Cards with Bypass
- Network Interface Cards without Bypass
- External Bypass Products
- SSL/IPSec Cards
- Embedded Switches
- Embedded Platforms
- Development Tools
- TAP Systems

About Interface Masters Technologies, Inc.

[Interface Masters Technologies](#) is a leading vendor in the network monitoring and high speed networking markets. Based in the heart of the Silicon Valley, Interface Masters' expertise lies in Gigabit, 10 Gigabit and 40 Gigabit Ethernet network access and network connectivity solutions that integrate with monitoring systems, inline networking appliances, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances.

Flagship product lines include [hardware load-balancers](#), [specialized 10GE internal server adapter cards](#), switches, [10 Gigabit external intelligent Network TAP](#) and [Bypass](#) and [failover](#) systems that increase network visibility capabilities, network reliability and inline appliance availability.

Company Headquarters is located in San Jose, CA with satellite offices in Hong Kong and Europe.



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TECHNOLOGIES

Innovative Network Solutions