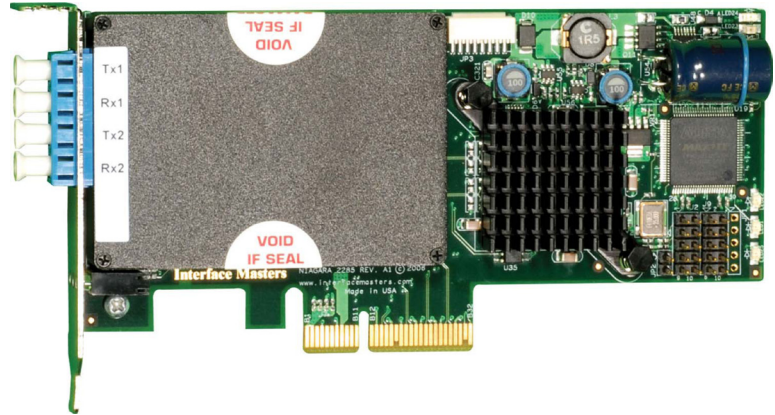


## Overview

Niagara 32285 Dual Port Gigabit Ethernet Server Adapter is built on [Intel's 82576](#) Gigabit technology & Interface Masters' sterling design and customer service.

Niagara 32285 is designed with a built-in programmable bypass circuit to provide maximum uptime for the network. The bypass circuit takes the Niagara 32285 ports offline in case of either power or software failure. The bypass circuit works in absence of power.

Niagara 32285 Dual Port Fiber 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 82576EB Dual MAC & PHY controller](#)
- Peak bandwidth 5 Gb/s in each direction per PCI Express lane
- 4 Gigabit per second of traffic when fully utilized
- PCI-E x4 (Gen 2.0) compatible
- Dual LC Connectors
- Multi Mode Fiber (SX), Single Mode Fiber (LX)
- Low profile form factor
- 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 gigabit fiber card
- Integrated PHY for full and half-duplex Support
- TCP/UDP/IP checksum offload and TCP segmentation
- IEEE 802.1q, 802.3ab, 802.3u, 802.3x compliant
- Layer 2, 3 and 4 Advanced packet filtering capabilities (IPv4, IPv6)
- Efficient form factor – 6.67 inches in length and 2.51 inches in height
- Low power consumption (7W maximum power)
- Full RoHS compliance
- FCC Class A and CE certification

## Component Specifications

The [Intel 82576](#) provides support for:

- PCI Express 2.0 (2.5GT/s)
- Low Power 2.4W
- Protocols: TCP, UDP & SCTP
- Queues per port: (16) Tx & (16) Rx Queues
- Enhanced Virtualization Support
- VMDq2 & PCI SIG IOV
- Intel® I/OAT Acceleration v3.0
  - » VM Direct Assignment (VT-d)
- Data Center Ethernet
  - » Traffic Classes (802.1q): 2
  - » Flow Interrupt Priority (802.3ar)
  - » Priority Grouping (802.1P)
- End-to-End Congestion Mgmt (802.1 PAR)
- IEEE 1588 Support
  - » Manageability interfaces
    - ⇒ RMII, SMBus, PXE, iSCSI Boot
- Layer 2 & 3 Security: IPSec & LinkSec

## Environmental

<b>Operating Temperature</b>	0 to 55 °C or 32 to 131 °F
<b>Operating Humidity</b>	5 to 95%, non-condensing
<b>Max Power Consumption</b>	13 Watts
<b>Airflow</b>	200 lf/m

## Dimensions

	mm	inches
<b>Length</b>	169.42	6.67
<b>Height</b>	63.75	2.51

## Ordering Part Numbers

Part Number	Description
Niagara 32285-SX	Dual Port Multi-Mode Fiber Gigabit NIC with Bypass
Niagara 32285-LX	Dual Port Single-Mode Fiber Gigabit NIC with Bypass

## Product Line

- External Bypass Systems/Switches 1Gb and 10Gb
- External 1GE and 10GE Aggregation TAP system
- Special Server Adaptors/NIC cards supporting
  - » Multi Port NIC cards - Copper, Fiber MM and Fiber SM
  - » 10/100, Gigabit and 10 Gigabit - Supporting Fiber SX, LX, SR and LR
  - » NIC cards with Bypass and Security
  - » PCI-Express, PCI-X, PMC and PC104 Plus
- Gigabit and 10GE Embedded Switches

## About Us

Interface Masters Technologies is a leading vendor in the Bypass and TAP Networking market, based in the heart of the Silicon Valley. Interface Master's expertise lies in Gigabit and 10 Gigabit Ethernet networking solutions that integrate with monitoring, inline networking, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances. Flagship product lines include specialized 10GE internal server adapter cards, embedded switch boards, and 10 Gigabit external intelligent Network TAP, Bypass and failover systems that increase network monitoring capabilities, network reliability and inline appliance availability. Company Headquarters are located in San Jose, CA with satellite offices in Hong Kong and Germany.



## Contact Interface Masters

227 Devcon Dr., San Jose, CA 95112  
Phone: 408-441-9341 x122  
Fax: 815-364-0888  
Email: [sales@interfacemasters.com](mailto:sales@interfacemasters.com)  
Web: [www.interfacemasters.com](http://www.interfacemasters.com)

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