Interface Masters
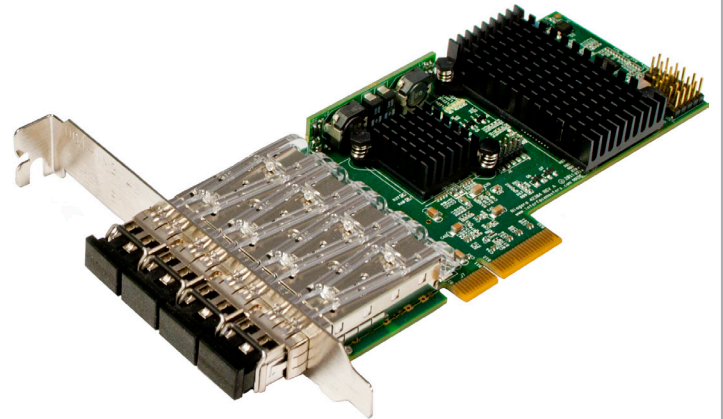**T E C H N O L O G I E S**

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Innovative Network Solutions

Overview

Niagara 42084 Quad Gigabit Ethernet Server Adapter is built on Intel's Gigabit technology and Interface Masters' sterling design and customer service.

Niagara 42084 Quad Port Gigabit Ethernet NIC supports SFP pluggable modules for copper, multi mode and single mode fiber applications.

Niagara 42084 Quad Port Gigabit Ethernet NIC is designed to integrate with PCI Express compatible servers and high-end appliances providing high speed networking for any mission-critical application.

Features

- Intel 82580 Quad MAC/PHY Ethernet controller
- Peak bandwidth 8 Gb/s on PCI Express bus
- Handles 4 Gigabit per second traffic load
- PCI-e x4 Gen 2
- Four SFP Transceivers
- Multi Mode Fiber (SX), Single Mode Fiber (LX) and Copper (RJ45) support
- Low profile form factor
- 2.7W maximum power
- RoHS Compliant
- EMC, FCC Class A, UL (Safety) Certifications
- Digital Optical Monitoring support (DOM) according to the industry-standard SFF-8472

Drivers

- Windows
- Linux
- Free BSD
- VMware ESX
- XEN
- Hyper-V

Component Specifications

The Intel 82580 provides support for:

- PCI Express rev2.0 Gen 2
- Transmit and receive IP, TCP and UDP checksum offloading capabilities
- Transmit TCP segmentation
- IPv6 Offloading
- Advanced packet filtering
- IEEE 802.1q VLAN support with VLAN tag insertion, stripping and packet filtering for up to 4096 VLAN tags
- IEEE 1588 (Pre standard) per packet time stamping
- Supports multiple TX & RX queues, Virtual Machine Data queues (VMDq)
- Supports jumbo frame size of 9.5 KB
- IEEE 802.3ab, 802.3u, 802.3x compliant
- Extensive power management

Environmental

Operating Temperature	0 to 55 ºC or 32 to 131 ºF
Operating Humidity	5 to 95%
Maximum power consumption	8 W (without Transceivers)
Airflow	200 lf/m

Dimensions

	mm	inches
Length	127.00	5.0
Height	68.58	2.7

Ordering Part Numbers

Part Number	Description
Niagara 42084-SX	Quad 1G NIC with four SX SFP modules
Niagara 42084-LX	Quad 1G NIC with four LX SFP modules
Niagara 42084-TX	Quad 1G NIC with four Copper SFP modules

Product Line

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

About Us

Interface Masters Technologies is a leading vendor in the Bypass Networking market, based in the heart of the Silicon Valley. Interface Master's expertise lies in Gigabit and 10 Gigabit networking solutions that integrate with monitoring, inline networking, security, central office and other mission-critical IT appliances. Flagship product lines include specialized internal server adapter cards, embedded switch cards, and external intelligent Network Bypass and failover systems that increase network reliability and inline appliance availability.

Offering over 70 products based on Fast Ethernet, Gigabit Ethernet, and 10 Gigabit Ethernet, Interface Master's adds value to the mission-critical IT sector requiring Security, UTM, Storage Area Networks (SAN), Intrusion Detection & Prevention, QoS, Packet Classification and WAN Acceleration appliances. Company Headquarters are located in San Jose, California with satellite offices in Hong Kong, Germany and the UK.

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