Interface Masters
TECHNOLOGIES

Innovative Network Solutions

Niagara 42264

Quad Port Copper Gigabit Ethernet NIC with Bypass

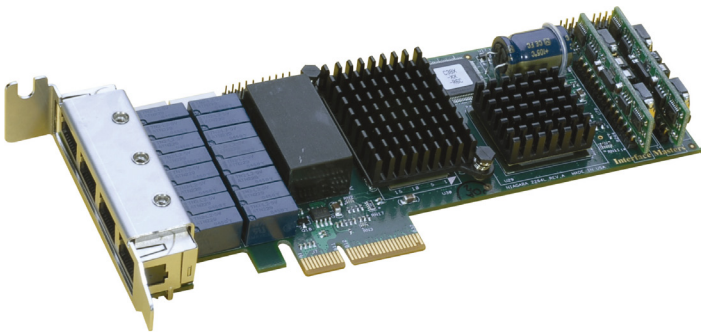
PCI-e Server Adapter Card

Overview

Niagara 42264 Quad Port Gigabit Ethernet Server Adapter is built on Intel's 82580 Gigabit technology & Interface Masters' sterling design and customer service.

Niagara 42264 is designed with a built-in programmable bypass circuit to provide maximum uptime for the network. The bypass circuit takes the Niagara 42264 ports offline in case of either power or software failure. The bypass circuit works in absence of power.

Niagara 42264 Quad Port SFP 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 82580EB Quad MAC & PHY controller
- Peak bandwidth 5 Gb/s in each direction per PCI Express lane
- 8 Gigabit per second of traffic when fully utilized
- PCI-E x4 (Gen 2.0) compatible
- Four Copper RJ45 Connectors
- 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 copper card
- Integrated PHY for full and half-duplex 10/100/1000 Base-T 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 5.2 in length and 2.64 in height
- Low power consumption (11W maximum power)
- Full RoHS compliance
- FCC Class A and CE certification

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°C – 50°C (32°F - 122°F)
Operating Humidity	0%–90%, non-condensing
Storage Temperature	-20°C – 65°C (-4°F – 149°F)
Max power consumption	11 W

Dimensions

	mm	inches
Length	167.64	6.600
Height	67.95	2.675

Ordering Part Numbers

Part Number	Description
Niagara 42264	Quad Port Copper Gigabit NIC with Bypass

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.

Made in the USA

Contact Interface Masters

227 Devcon Dr., San Jose, CA 95112
Phone: 408-441-9341 x122
Fax: 815-364-0888
Email: sales@interfacemasters.com
Web: www.interfacemasters.com

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