

Overview

Niagara 42265-VM Virtual Machine-Aware Dual Port Gigabit Ethernet Server Adapter is built on Intel's 82580 Gigabit technology & Interface Masters' sterling design and customer service.

Niagara 42265-VM supports virtual machine software including Microsoft, Citrix, VMware, KVM, Oracle and others and is designed with a built-in programmable bypass circuit to provide maximum uptime for the network. The bypass circuit takes the Niagara 42265-VM ports offline in case of either power or software failure. The bypass circuit works in absence of power.

Niagara 42265-VM Quad Port Copper 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

- Microsoft VM, Citrix VM, VMWare VM and Oracle VM support, among others
- Intel 82580EB Quad MAC & PHY controller and Powerville
- 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
- Two 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 inches length and 2.64 inches height
- **Low Power Consumption - 3.70 Watts 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 Humidity | 0%–90%, non-condensing |
| Operating Temperature | 0°C – 50°C (32°F - 122°F) |
| Storage Temperature | -20°C – 65°C (-4°F – 149°F) |

Dimensions

| | mm | inches |
|--------|--------|--------|
| Length | 132.08 | 5.20 |
| Height | 67.056 | 2.64 |

Ordering Part Number

| Part Number | Description |
|------------------|---|
| Niagara 42265-VM | VM Aware Dual Port Copper 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 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.



Contact Interface Masters

150 East Brokaw Rd, 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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TECHNOLOGIES

Innovative Network Solutions