

Quad-Port Fiber Gigabit Ethernet NIC with Bypass PCI-e Server Adapter Card

Interface Masters



OVERVIEW

Sierra 52264 is a quad-port copper Gigabit Ethernet server adapter built on Intel's Ethernet controller I350- AM4 Gigabit technology and Interface Masters' sterling design and customer service.

Sierra 52264 is designed with a built-in programmable bypass circuit to provide maximum uptime for the network. The bypass circuit takes the Sierra 52264 ports offline in case of either power or software failure. The bypass circuit works in absence of power.

Sierra 52264 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.

Component Specifications

The Intel I350-AM4 provides support for:

- PCI Express v2.1 x4 (5GT/s)
- Transmit and receive IP, TCP and UDP checksum offloading capabilities
- Transmit TCP segmentation
- VM to VM Packet forwarding
- 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 and 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

Product Features

- Intel I350-AM4 quad MAC and PHY controller
- Peak bandwidth 5 Gb/s in each direction per PCI Express lane
- 5 Gigabit per second of traffic when fully utilized
- PCI-E x4 (Gen 2.1) compatible
- Four copper RJ45 connectors
- 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 quad-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, and 802.3u compliant
- Energy Efficient Ethernet (EEE)
- Layer 2, 3 and 4 advanced packet filtering capabilities (IPv4, IPv6)
- Low-power consumption (9.7W maximum power)
- Full RoHS compliance
- IEEE 1588 Support
- FCC and CE certifiable

ENVIRONMENTAL	
Operating Temperature	0 ° to 45 °C
Operating Humidity	5 to 85%
Storage Temperature	-40 ° - 65 °C
Maximum Power Consumption	9.7 Watts

ORDERING INFORMATION	
Part Number	Description
Sierra 82264	Quad-port copper Gigabit NIC with bypass

DIMENSIONS		
	Inches	Millimeter
Length	6.70	170.18
Height	2.69	68.07

CUSTOMIZATION SERVICES

Hardware, Firmware, Linux O/S and application code development services available.



ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a long term Cavium partner and leading provider of high speed networking solutions focused on Gigabit, 10 Gigabit, 40 Gigabit and 100 Gigabit Ethernet networking solutions. For over 20 years, Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality. Company headquarters are located in San Jose, CA with satellite offices in Hong Kong and Europe.