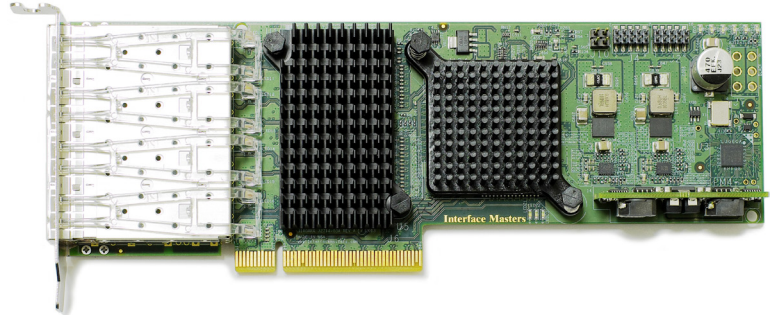


Overview

Niagara 32714G3 Quad Port 10 Gigabit PCIe Gen 3.0 Ethernet Server Adapter is built on Intel's 82599 Ten Gigabit technology & Interface Masters' sterling design and customer service.

Niagara 32714G3 Quad Port 10 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

Niagara 32714G3 provides features that are essential in today's data centers:

- Intel 82599EB Dual MAC & PHY Ethernet controller
- PCI-e x8 (Gen 3.0) compatible
- Peak bandwidth 64 Gb/s in each direction on PCI Express bus
- Handles 80 Gigabit per second traffic load
- Four SFP+ Connectors for Multi-Mode or Single-Mode Support
- Option for 10GE/1GE Dual Speed Fiber Support (using special SFP modules)
- TCP/UDP/IP checksum offload and TCP segmentation
- Layer 2, 3 and 4 Advanced packet filtering capabilities (IPv4, IPv6)
- Low-profile form factor
- Low power consumption (24W)
- Full RoHS compliance
- FCC Class A and CE certification
- Digital Optical Monitoring support (DOM) according to the industry-standard SFF-8472. DOM gives the end user the ability to monitor real-time parameters of the SFP+, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

Component Specifications

The Intel 82599EB provides support for:

- PCI Express 2.0 (5 GT/s)
- Low Power (6.2W)
- Quad Integrated PHY for full-duplex 10 Gbps Ethernet Support per port
- Protocols: TCP, UDP & SCTP
- Support for transmission and reception of packets up to 15.5 KBytes (Jumbo Frames)
- Optimized queues: 128 Transmit (Tx) and Receive (Rx)
- Enhanced Virtualization Support
 - » Intel® VT-c, VMDq and VMDc & PCI SIG IOV
- Intel® I/OAT Acceleration v3.0
 - » VM Direct Assignment (VT-d)
- Data Center Ethernet
 - » VLAN Tagging, Stripping and Packet Filtering (802.1q)
 - » Flow Interrupt Priority (802.3ar)
 - » Priority Grouping (802.1P)
 - » Auto-negotiation support (802.3ap)
 - » Integrated LinkSec security engines (802.1ae)
- End-to-End Congestion Mgmt (802.1 PAR)
- IEEE 1588/802.1as Support
 - » Time Manageability interfaces
 - ⇒ RMII, SMBus, PXE, iSCSI Boot
- Layer 2 & 3 Security: IPSec & LinkSec
- FCoE Transmit Segmentation and offload
- SNMP and RMON statistic counters

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 | 187.757 | 7.392 |
| Height | 68.580 | 2.700 |

Ordering Part Number

| Part Number | Description |
|------------------------|--|
| Niagara 32714G3-SR | Quad Port 10 Gigabit Gen 3.0 NIC with SFP+ pluggable modules for Multi-Mode Fiber – Low Profile |
| Niagara 32714G3-LR | Quad Port 10 Gigabit Gen 3.0 NIC with SFP+ pluggable modules for Single-Mode Fiber – Low Profile |
| Niagara 32714G3-No SFP | Quad Port 10 Gigabit Gen 3.0 PCIe NIC |

Product Line

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

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.



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TECHNOLOGIES

Innovative Network Solutions