

## Overview

Niagara 32711-TX Low Profile Dual Port 10GBASE-T Server Adapter is built on Intel's 82599 Ten Gigabit technology & Interface Masters' sterling design and customer service.

Niagara 32711-TX Low Profile Dual Port 10GBASE-T 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 82599EB Dual Port Ethernet controller
- PCI-e x8 (Gen 2.0) compatible
- Peak bandwidth 20 Gb/s in each direction on PCI Express bus
- Integrated PHY for full 10 Gbps Ethernet Support
- Supports the emerging PCI SIG SR-IOV (single-root IO virtualization) standard
- Accelerates guest applications in VMware, Citrix XenServer and Microsoft Hyper V environments
- TCP/UDP/IP checksum offload and TCP segmentation
- Layer 2, 3 and 4 Advanced packet filtering capabilities (IPv4, IPv6)
- Efficient low profile form factor – 6.6 inches in length and 2.7 inches in height
- Low power consumption 12.5W maximum power
- Full RoHS compliance
- FCC Class A and CE certification

## Component Specifications

The Intel 82599EB provides support for:

- PCI Express 2.0 (5 GT/s)
- Low Power 6.2W
- 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
    - ⇒ RMI, SMBus, PXE, iSCSI Boot
- Layer 2 & 3 Security: IPSec & LinkSec
- FCoE Transmit Segmentation and offload
- SNMP and RMON statistic counters

## Environmental

<b>Operating Temperature</b>	0 to 55 °C or 32 to 131 °F
<b>Operating Humidity</b>	15% to 80%
<b>Maximum power consumption</b>	12.5 Watts

## Dimensions

	mm	inches
<b>Length</b>	167.64	6.6
<b>Height</b>	68.58	2.7

## Ordering Part Number

Part Number	Description
Niagara 32711-TX	Dual Port 10GBASE-T NIC

## 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 Us

Interface Masters Technologies is a leading vendor in the Bypass and TAP Networking market, based in the heart of the Silicon Valley. Interface Master's expertise lies in Gigabit and 10 Gigabit Ethernet networking solutions that integrate with monitoring, inline networking, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances. Flagship product lines include specialized 10GE internal server adapter cards, embedded switch boards, and 10 Gigabit external intelligent Network TAP, Bypass and failover systems that increase network monitoring capabilities, network reliability and inline appliance availability. Company Headquarters are located in San Jose, CA with satellite offices in Hong Kong and Germany.



## Contact Interface Masters

227 Devcon Dr., San Jose, CA 95112  
Phone: 408-441-9341 x122  
Fax: 815-364-0888  
Email: [sales@interfacemasters.com](mailto:sales@interfacemasters.com)  
Web: [www.interfacemasters.com](http://www.interfacemasters.com)

# Interface Masters

TECHNOLOGIES

*Innovative Network Solutions*