

PCI Express 10 Gigabit Ethernet Fiber Network Card w/ Open SFP+ - PCIe x4 10Gb NIC SFP+ Adapter

Product ID: PEX10000SFP



The PEX10000SFP 10 Gigabit Fiber Network Card is a cost-effective solution that delivers fast and reliable 10 Gbps network access at longer distances than copper-based networks. Using the SFP+ transceiver of your choice, you can connect your PCI Express-based server or workstation directly to your 10G fiber optic network.

With the rising strain on network resources due to large file transfers, multimedia content, and an increase in network users, more bandwidth is often required at various levels of your networking infrastructure. With up to 10 Gbps bandwidth, this fiber NIC lets you transfer more data at faster speeds, and is an ideal low-cost addition to your server or high-powered workstation.

The PEX10000SFP adapts to your network fiber connection and distance requirements to offer flexible configuration via an open SFP+ slot, and is compatible with most . With broad SFP+ compatibility this cost-effective fiber card lets you use your preferred SFP+ module, giving you more options to connect your computer directly to a fiber network at greater distances.

For improved operating efficiency, the PEX10000SFP features an energy-efficient Tehuti TN4010 chipset that offers significantly reduced power consumption versus most comparable cards, including the Intel 82599 chipset cards. Superior power efficiency also helps minimize heat generated by the card, in turn avoiding an increase in the operating temperature within your server case.

Power Consumption Benchmark

This versatile 10 Gbps network card offers 16K Jumbo Frame and 802.1q VLAN tagging support, as well as compatibility with VMWare ESXi, Microsoft Hyper-V virtualization software, and iSCSI support to combine LAN and SAN functions.

Backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

Applications

- Ideal for secure setups - a direct fiber connection means no electronic interference, which can be a problem with RJ45 network cards
- Perfect for remote embedded industrial monitoring systems, and high-speed video surveillance
- Transmit full 10-Gigabit network speeds to a remote terminal over longer distances than copper cabling
- Add 10Gbps network connectivity to file or application servers and high-performance workstations
- Upgrade your onboard network adapter or existing SFP to 10 Gigabit SFP+, for faster communication
- Create a video / audio editing console with 10 Gbps access to network storage

Features

- Broad SFP+ compatibility and compliant with most 10 Gigabit SFP+ modules (10GBASE-LR/SR/LRM)
- Configured with standard-profile bracket, low-profile/half-height bracket included, ideal for installation in 1U server and rackmount applications
- Faster networking with up to 10Gbps over fiber optic cabling
- Up to 16K Jumbo Frame support
- Virtualization (VMWare ESXi and Microsoft Hyper-V) and iSCSI support
- Compliant with PCI Express Rev 2.0 specification, using PCIe x4 (or higher) slot
- Compliant with IEEE 802.3ae (10GBASE-LR/SR only) and IEEE 802.3aq (10GBASE-LRM)
- Supports 802.3ad (Link Aggregation) and 802.1Q (VLAN Tagging)
- Supports PCI Message Signaled Interrupt (MSI)
- Lower power consumption (4.12W max) than most comparable cards, with an energy-efficient chipset
- Supports Checksum Offload (IP, TCP, UDP) and Large Send Offload

Hardware

Warranty	2 Years
Ports	1
Interface	Fiber (10 Gigabit Ethernet)
Bus Type	PCI Express

Card Type	Standard Profile (LP bracket incl.)
Industry Standards	IEEE 802.3ae (10GBASE-LR/SR only), IEEE 802.3aq (10GBASE-LRM) PCI Express Rev 2.0
Chipset ID	Tehuti - TN4010 AMCC - QT2025

Performance

Maximum Data Transfer Rate	20000 Mbps (20 Gbps) - Full-Duplex
Compatible Networks	10 Gbps
Full Duplex Support	Yes
Jumbo Frame Support	16K max.
MTBF	38,400 hours
Supported Protocols	IEEE 802.3ad (Link Aggregation) IEEE 802.1Q (VLAN Tagging) IEEE 802.1P (Layer 2 Priority Encoding) IEEE 802.3x (2005 Flow Control Support) RFC 2819 (RMON MIB Statistics)

Connector(s)

Connector Type(s)	PCI Express x4
External Ports	SFP+ Slot

Software

OS Compatibility	Windows 7, 8, 8.1, 10 Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019 Mac OS X 10.10.3 to 10.14 Linux 2.6.24 to 4.11.x <i>LTS Versions only</i> VMWare ESXi 5.0/5.1/6.0/6.5 Microsoft Hyper-V
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Special Notes / Requirements

System and Cable Requirements	Available PCI Express x4 slot
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Not compatible with 10/100/1000 Mbps SFP transceivers, 10 Gigabit SFP+ transceiver required

Note Fiber data transfer speeds and distances are dependent on the SFP used (sold separately)

Indicators

LED Indicators	Link/Activity (Green)
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Power

Power Consumption (In Watts)	4.12W Max
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Environmental

Operating Temperature	0C to 70C (32F to 158F)
Storage Temperature	-20C to 85C (-4F to 185F)
Humidity	20~80% RH (Non-Condensing)

Physical Characteristics

Material	Steel
Product Length	3.3 in [84.0 mm]
Product Width	0.7 in [18.0 mm]
Product Height	4.7 in [12.0 cm]
Weight of Product	1.6 oz [45.0 g]

Packaging Information

Package Length	5.7 in [14.4 cm]
Package Width	6.8 in [17.3 cm]
Package Height	1.2 in [30.0 mm]
Shipping (Package) Weight	5.1 oz [145.0 g]

What's in the Box

Included in Package	1 Port PCI Express 10GBase-LR/SR/LRM Fiber Network Card
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Low-Profile Bracket

Driver CD

Instruction Manual

****Product appearance and specifications are subject to change without notice.***

