

10 Gigabit Ethernet Card with Built-in Optical Module



AI Overview

10 Gigabit Ethernet connectivity is achieved using SFP+ or SFP28 optical modules paired with compatible 10GbE NICs, offering high-speed, low-latency network performance for data centers, enterprise, and server applications. Optical Modules (SFP+ and SFP28) SFP+ (Small Form-factor Pluggable Plus) modules are widely used for 10GbE connections. They are hot-swappable, compact, and support both short-range (SR) and long-range (LR) fiber connections. For example, Cisco 10GBASE SFP+ modules support digital optical monitoring, interoperability with XENPAK, X2, and XFP interfaces, and can connect via LC duplex fiber for distances up to 300 meters for multimode (SR) or up to 10 km for single-mode (LR) fiber networks. FS and Amphenol also provide SFP+ modules compatible with Cisco, HP, and Brocade switches, supporting multi-rate speeds up to 11.3 Gbps. SFP28 modules are an evolution of SFP+ designed for 25GbE but are backward compatible with 10GbE networks. They use the same LC/LC fiber connections and can be installed in PCIe cards or switches to provide high-density fiber connectivity. SFP28 modules are ideal for short-range multimode fiber connections up to 300 meters and can interoperate with SFP+ ports on switches. 10 Gigabit Ethernet Cards (NICs) 10GbE NICs provide high-speed network interfaces for servers, workstations, or PCs. PCIe cards like the Sonnet Twin10G SFP28 PCIe Card offer dual-port fiber connectivity, supporting short-range SFP28 transceivers. These cards enable features such as: Increased throughput by combining multiple ports for higher aggregate bandwidth SMB Multichannel support for improved fault tolerance and load balancing Compatibility with SFP+ switches and LC fiber cabling Lantronix and other vendors also offer 10GbE NICs with SFP+ ports, allowing flexible deployment in enterprise or data center environments...

Article Content

Intel X710 10G SFP+ NIC | Dual Port PCIe v3

EDGEOPTIC Intel X710 dual port 10G SFP+ NIC: PCIe v3.0 x8, 7.4W power, SR-IOV/VMDq/VXLAN virtualization, IEEE 1588 PTP. Enterprise-grade 10GbE

TX401 | 10 Gigabit PCI Express Network Adapter | TP-Link

10 Gigabit PCI Express Network Adapter 10 Gbps Networking - Combined with the latest 10GBase-T Technology, TX401 delivers extreme speeds of up to 10 Gbps,

Vivobook 15 X540

Please check with your local ASUS retailer for details.□Included in the Box:USB-A to RJ45 gigabit ethernet adapter
Carry bag
Backpack, UNIEX CASE,

Quad-Port SFP+ Server Network Card

Quad Port 10G SFP+ Network Card - Intel XL710 Open SFP+ Converged Adapter - PCIe 10 Gigabit Ethernet Server NIC - 10GbE Fiber Optic LAN Card - Dell PowerEdge HPE ProLiant

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport

10gb fiber network card | Newegg

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Support Documents and Downloads

For Broadcom software downloads, including VMware products, visit the Customer Support Portal. Use the search below to access semiconductor-related documentation and downloads (drivers, firmware,

10GbE Network Cards

10GbE network cards can use different types of cabling, including Cat6a or Cat7 Ethernet cables for copper connections, or fiber optic cables when paired with compatible transceivers.

Twin10 SFP28 PCIe Card

Dual-port 10GbE PCIe card with dual SFP28 transceivers for adding optical 10GbE connectivity to Mac, Windows, and Linux computers

Ethernet - Wikipedia

Inzwischen nehmen die Arbeiten am 10-Gbit/s-Ethernet und am Ethernet in the First Mile (EFM) statt des rein lokalen Betriebs bereits Universitäts- und Stadtnetze

ITPro Today, Network Computing, IoT World Today combine

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Solo10ZG SFP+ v2 PCIe Card

Dual-port 10GbE PCIe card with dual SFP28 transceivers for adding optical 10GbE connectivity to Mac, Windows, and Linux computers with PCIe slots.

10G Ethernet Karte mit Intel 82599EN, SFP+ Port, X520

H!Fiber offers one-stop Datacenter solution and products, including SFP Transceivers, DAC Cables, Network Card, Media Converters, Fiber Optical

PCI-E X8 10 gigabit Ethernet Fiber Optic Network Card, with ...

The adapter card incorporates integrated hardware acceleration functionality, enabling efficient handling of TCP/UDP/IP checksum split load and TCP segmentation tasks.

10GbE PCIe Adapters from Intel, Startech And Asus | Novatech

StarTech Quad Port 10G SFP+ Network Card - Intel XL710 Open SFP+ Converged Adapter - PCIe 10 Gigabit Fiber Optic Server NIC Quad port SFP+ network card for MSA compliant SFP+ /DAC - 10

StarTech Quad Port 10G SFP+ Network Card

StarTech Quad Port 10G SFP+ Network Card - Intel XL710 Open SFP+ Converged Adapter - PCIe 10 Gigabit Ethernet Server NIC - 10GbE Fiber Optic LAN Card - Dell PowerEdge HPE ProLiant

10GbE Network Cards

Upgrade your network with Dell 10GbE Network Cards. Enjoy faster speeds and reliable performance for your business or home setup.

10 Best PCIe Network Cards With External Antenna in 2026

Compare the best PCIe network cards with external antenna for faster Wi-Fi, stronger signal, and the right desktop upgrade.

Solo10ZG SFP+ v2 PCIe Card

Solo10G SFP+ V2 PCIe Card includes a short-range multi-mode fiber SFP+ transceiver to enable easy connection to your optical 10GbE network at

NETGEAR PR460X wired router 10 Gigabit Ethernet Black

10G/Multi-Gigabit Dual WAN Pro Router with Insight Cloud Management • 10G/Multi-Gig and 2.5G Dual WAN ports with failover • High performance hardware with one 10G/Multi-Gig Ethernet port four 2.5G

Cisco Catalyst 8300 Series Edge Platforms Data Sheet

In addition to a wide range of NIM based Ethernet modules for a flexible and scalable combination of switched L2 ports and routed L3 ports, the

Cisco 10 Gigabit Modules

Discover Cisco 10 Gigabit Ethernet Modules, offering high-speed, reliable connectivity to enhance network performance and scalability.

10Gtek 10Gb PCI-E NIC Network Card, Single SFP

Equipped with high quality original Intel 82599EN controller which supports I/O virtualization and make the servers more stable. Supports 10G, not support

Asus 10Gbps Gigabit Ethernet PCI Express, Network

About this item Blazing FAST 10 Gaps speeds - capable of 10x the speeds of Gigabit Ethernet to complete all your networking and online tasks. Fiber optics -

StarTech 1-Port 2.5Gbps PCIe Network Card, Computer Network Card ...

1-PORT 2.5G ETHERNET CARD: High-performance PCIe 2.5Gbps network card with Intel I225-V chip; Multi-gigabit; Leverage existing Cat5e/Cat6 (or better) cabling; NBASE-T compatible (802.3bz); PCI

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