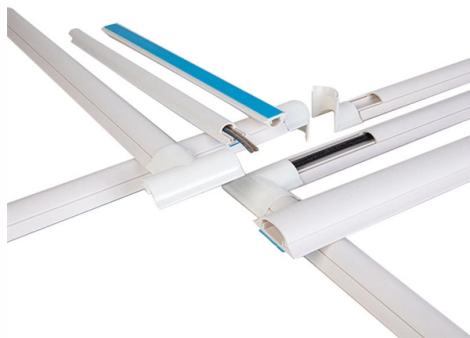


How to choose the optical module for a 10 Gigabit Ethernet card



Article Overview

10GbE optical modules typically use SFP+ or SFP28 transceivers, supporting both short-range multimode and long-range single-mode fiber connections.

Types of Optical Modules

SFP+ (10GBASE-SR/LR) and SFP28 modules are the most common for 10 Gigabit Ethernet cards. SFP+ modules support 10GbE speeds and are compatible with many PCIe network adapters and switches. SFP28 modules, while designed for 25GbE, are backward compatible with 10GbE networks, allowing flexible deployment.

- Short-Range (SR) Multimode Modules: Typically use OM3 or OM4 fiber with LC connectors, supporting distances up to 300 meters. These are ideal for intra-rack or data center connections.
- Long-Range (LR) Single-Mode Modules: Use OS1/OS2 fiber with LC connectors, supporting distances up to 10 km, suitable for campus or metropolitan area networks.

Compatible 10GbE PCIe Cards

- Sonnet Twin10G SFP28 PCIe Card: Dual-port card with included short-range SFP28 transceivers, compatible with SFP+ switches, supporting SMB Multichannel for combined bandwidth and fault tolerance.
- Sonnet Solo10G SFP+ V2 PCIe Card: Single-port card with short-range SFP+ transceiver, compatible with Mac, Windows, and Linux systems, supporting distances up to 300 meters.

Article Content

Solo10G SFP+ (10Gb Ethernet Thunderbolt Adapter)

For many, the 10Gb Ethernet network infrastructure of choice is optical (SFP+) 10Gb Ethernet. For these workgroups, there is now

How to Choose the Right SFP Module for Your Network?

SFP module has been a reliable and important component in various networks, including Gigabit Ethernet, Fiber Channel, PON and

10 Gigabit Ethernet

10 Gigabit Ethernet Router with two dozen 10 Gigabit Ethernet ports and three types of physical-layer module 10 Gigabit Ethernet

10GB SFP Module Guide: Types, Specs, and How to Choose

Learn everything about 10GB SFP modules, including types, specifications, compatibility, and how to choose the right 10G SFP+

10 Gigabit Ethernet Fiber Design Considerations

The 10 Gigabit Ethernet operating distances provided in the tables below are limited by the channel insertion loss, the cable

Selecting the right modules for gigabit, multi-gigabit networks

This gives the designer much greater flexibility for product selection and customization. Within the network, Gigabit Ethernet optical

ConneCtivity 10GbE Network Adapters

At a Glance Cables and connectors can cause some confusion when purchasing new adapters for servers. There are many options

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

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

Cisco 40 Gigabit Modules

Cisco offers a broad range of 40 Gigabit Ethernet interfaces to meet the high-performance connectivity requirements of campus, data

10GbE Network Cards

10GbE network cards can use different types of cabling, including Cat6a or Cat7 Ethernet cables for copper connections, or fiber

Contact Us

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