

10 Gigabit Fiber Single-Mode Single-Fiber Module



Article Overview

A 10 Gigabit Single-Mode Single-Fiber Module enables high-speed 10GbE data transmission over long distances using a single strand of single-mode fiber.

Core Function

The primary function of a 10G single-mode SFP+ module is to provide 10 Gigabit Ethernet connectivity over single-mode fiber (SMF) for distances up to 10 kilometers. It converts electrical signals from a network switch or router into optical signals for transmission over fiber and then back into electrical signals at the receiving end, enabling high-speed, long-distance communication between network devices .

Key Features

- **Data Rate:** Supports up to 10.3 Gbps, suitable for 10GbE networks .
- **Wavelength:** Operates at 1310 nm, optimized for single-mode fiber transmission .
- **Fiber Type:** Uses single-mode fiber (SMF, 9/125 μm , G.652 compliant); multimode fiber is not compatible for long-distance links .
- **Connector Type:** Typically uses LC duplex connectors for transmit and receive paths .
- **Hot-Pluggable:** Can be installed or replaced without powering down the network device .
- **Digital Diagnostic Monitoring (DDM/DOM):** Provides real-time monitoring of optical power, temperature, and voltage for network maintenance .

Article Content

Single Mode BiDi SFP+ Fiber Modules

Single Mode BiDi SFP+ Fiber Modules is a cost effective way to connect a single network device to a wide variety of fiber cable

Fiber Modules

SFP modules support very low EMI and excellent ESD protection. Featuring low power consumption, these fiber modules are ideal

10 Gigabit Fiber Media Converter

Our LC multimode 550m 1310nm gigabit fiber media converters are designed to covert data signals between 10/100/1000Base-T and

10 GIG Singlemode SPF+ Module | 10 Gig Transceiver | Multimode

This Small Form-factor Pluggable (SFP) singlemode fiber module supports 10 Gigabit Ethernet transmission over multimode fiber for

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,

SFP-10G-LR Compatible | 10GBASE-LR SFP+ Optical Transceiver

Reliable, high-speed connectivity with the SFP-10G-LR Compatible transceiver. Designed for 10 Gigabit networks, this module

H!Fiber 10G Single Mode SFP+ LC Module, 10GBase-LR Fiber

10GBase-LR SFP+: 10 Gigabit Ethernet Single Mode SFP+ Module, 10 Gb/s, 1310nm wavelength, Duplex Dual LC, SMF, link single

Microsoft Word

Cisco SFP-10G-LR The Cisco 10GBASE-LR Module supports a link length of 10 kilometers on standard single-mode fiber (SMF,

H!Fiber 1.25G Single Mode SFP LC Module, 1000Base-LX/LH Fiber

About this item 1000Base-LX/LH SFP: Gigabit Single Mode SFP Module support 1.25 Gb/s data rates, 1310nm wavelength, SMF;

SFP Transceiver

The GSFIBER-SFP-10K is a Gigabit Ethernet single-mode SFP transceiver. Utilizing LC connectors and operating at a 1310nm

U®Fiber Modules and FiberCable Datasheet

For long-distance single-mode runs, use the UF-SM-10G for distances of up to 10 km at 10 Gbps, or use the UF-SM-1G for distances

What Is 10GBASE-LR? SMF 1310nm 10km SFP+ Explained

10GBASE-LR is a 10-gigabit Ethernet optical standard that operates at 1310 nm over single-mode fiber (SMF), supporting link

Multimode or singlemode-which one is the best for 10-Gigabit Ethernet ...

Those who have purchased multimode media in anticipation of 10-Gigabit Ethernet may have been better off installing both

SFP+ BiDi 10G Guide: Single Fiber 10G Optical Transceivers

Learn what SFP+ BiDi 10G is, how single-fiber 10G transceivers work, key specs, use cases, and how to choose the right BiDi module.

SFP+ Single Mode LC Module (10km)

TRENDnet's 10G SFP+ Single Mode LC Modules enable reliable, long-distance network applications. Each 10G SFP+ transceiver

10 Gigabit single-mode single fiber optical module SFP-XG40

Ideal for enterprise networks, data centers, telecom infrastructure, and metro networks, this optical module is perfect for extending

SFP+ 10 Gigabit Fiber Module

Description Get the most out of your network equipment with this 10 Gigabit 10BaseG-LR SFP+ Fiber Modules from Networx®. SFP

Contact Us

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