

TP-Link Single-Core Fiber Transceivers and Optical Modules



AI Overview

TP-Link offers a range of single-mode and multi-mode SFP and SFP+ transceivers for 1G and 10G networks, supporting distances from hundreds of meters to tens of kilometers over single-core fiber. Overview of TP-Link Fiber Transceivers TP-Link fiber transceivers are compact, hot-pluggable modules designed to transmit and receive data over optical fiber networks. They are compatible with TP-Link switches, routers, servers, and NICs, and are available in both single-mode (SMF) and multi-mode (MMF) variants. Single-mode modules use a single-core fiber and are ideal for long-distance connections, while multi-mode modules are suited for shorter distances within buildings or campuses.

Key Types and Specifications

1G Single-Mode SFP Modules: For example, the TL-SM311LH supports 1000BASE-ZX Gigabit Ethernet over single-mode fiber at 1550nm, with distances up to 70-80 km depending on fiber quality. These modules are hot-swappable and comply with SFP MSA, IEEE 802.3z, and SFF-8472 standards.

10G SFP+ Modules: The TXM431-SR is a 10GBASE-SR multi-mode SFP+ transceiver operating at 850nm, supporting full-duplex 10G Ethernet up to 300m with 50/125µm fiber or 33m with 62.5/125µm fiber. Other 10G SFP+ modules include LR (long-range) single-mode options capable of 10 km distances.

BiDi SFP Modules: Single-fiber BiDi modules allow 15 km or 3-10 km links using paired A/B wavelengths, reducing fiber cabling requirements.

Direct Attach Copper (DAC) Cables: TP-Link also offers 10G SFP+ passive DAC cables in 1m, 3m, and 5m lengths for short-range connections without optical fiber.

Compatibility and Third-Party Options Third-party compatible transceivers, such as those from OPTCORE, provide cost-effective alternatives to TP-Link OEM modules while maintaining full compatibility with TP-Link devices. These modules are factory-tested for reliability and can save up to 80% co...

Article Content

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What is an Optical Transceiver? – VCELINK

The optical transceiver, also simply known as an optical module or fiber optic transceiver, is an integration of a transmitter and receiver within a single module.

Cisco SFP and SFP+ Transceiver Module Installation Notes

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These transceiver modules are hot-swappable

Tecisoft Axiom Axg93689 Network Transceiver Module Fiber Optic

10GBASE-SR SFP+ Transceiver for Avago - AFBR-703SDZ - TAA Compliant Axiom AXG93689. SFP transceiver type: Fiber optic, Maximum data transfer rate: 10000 Mbit/s, Interface type: SFP+.

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Optical Transceiver Types Explained: SFP, SFP+, QSFP, QSFP28

□□ Optical Transceiver Types Explained Every high-speed fibre network relies on a small but powerful component—the Optical Transceiver. It acts as the bridge between networking devices and ...

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP-100G-SR-S Module is a pluggable optical transceiver with a duplex LC connector interface supporting link lengths of 70 and 100 meters on laser-optimized OM3 and

10Pack 1.25G SFP LC Module 1000Base-LX Single-Mode Transceiver

It supports Gigabit Ethernet, Fiber Channel, and other optical links. 5. Exceptional Support and Warranty: The SFP 1000Base-LX Module comes with a 30-day money-back guarantee, a 3-year

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco 10GBASE-ER Industrial Temperature Module supports a link length of up to 40 kilometers on standard Single-Mode Fiber (SMF, G.652). The SFP-10G-ER-I for Industrial Operating Temperature

Used 150M/492FT LC to LC Armored Outdoor Fiber Optic Cable, Single

□Rugged Armored Outdoor Design□This 492ft (150M) single mode fiber optic cable features built-in stainless steel armor to resist crushing, moisture, rodent bites, and UV exposure. Perfect for harsh

5 Best Fiber Optic Cable For Internet | 30M Armored Fiber: Speed

In this guide, I break down the most reliable fiber optic cable for internet installations, covering armored outdoor runs, flexible indoor patch cables, and the exact connector types your ISP's ONT expects to

fiber to ethernet converter | Newegg

A Pair of 1.25G Gigabit Ethernet Fiber Media Converters with SFP LC Single Core Transceiver Module, Single-Mode LC, SMF RJ45 to SFP Slot up to 30KM, 10/100/1000Base-Tx to 1000Base-SX (2 Pack)

TXM431-LR

The TXM431-LR is designed to extend 10Gbps Ethernet connectivity over the distance. It is a 10GBASE-LR high performance 1310nm single-mode SFP+

10G SFP+ Optical Transceivers | Transceiver Module

Click to get your 10G SFP+ transceiver modules from nearby warehouses. 30-Day Free Return. Trusted by 260K+ Enterprise Users.

TP-Link ISM311LS Fiber Optic Transceiver 1250 Mbit/s

Enhance your network with the TP-Link ISM311LS Fiber Optic Transceiver, offering 1250 Mbit/s data rate up to 20000m. Perfect for your networking needs!

Compatible OEM transceivers for TP-Link devices

We offer SFPs and SFP+ transceivers for multimode 850nm, as well as for single mode 1310nm. Additionally we offer copper transceivers. These modules may be intended for different TP-Link

TP-Link Omada SM5110-LR | 10G-LR SFP+ LC

The single-mode SFP+ transceiver supports full duplex and 10G Ethernet connections up to 10 km (6.2 miles) with 50/125µm or 62.5/125µm fiber

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module format used for

Lightera Optical Fiber & Connectivity Solutions

Lightera isn't just about connectivity, it's about empowering industries, advancing technology, and improving lives with the power of optical technology.

SFP Modules, Cables, Transceivers, and Antenna

Omada SFP modules, network transceivers, direct attach cables, industrial modules, and antenna accessories help extend and support network connectivity across a

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Single Fiber 10 km SFP Optical Transceiver: TP-LINK...

TP-LINK TL-SM321A is SFP Single Fiber Transceiver supporting 1.063-1.25Gbps data rate in 10 km distance over Single-Mode Fiber (SMF).

TL-MC101 | Gigabit Single-Mode Media Converter | TP-Link

TL-MC101 is a media converter designed to convert 1000BASE-LX fiber to 1000Base-T copper media or vice versa. Designed under IEEE802.3ab 1000Base-T and IEEE802.3z 1000Base-LX standards, TL

TXM431-LR | 10GBase-LR SFP+ LC Transceiver | TP-Link

What This Product Does The TXM431-LR is designed to extend 10Gbps Ethernet connectivity over the distance. It is a 10GBASE-LR high performance 1310nm

TL-SM5110-LR | 10GBase-LR SFP+ LC Transceiver

What This Product Does The TL-SM5110-LR is designed to extend transfer distances based on 10Gbps Ethernet connectivity. It is a 10GBASE-LR high

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

Chelsio 40G short reach QSFP Optic Module SM40G-SR

Chelsio 40G short reach QSFP Optic Module Chelsio's SM40G-SR 40Gb/s 100m Multimode QSFP+ optical transceivers are designed and certified for use with Chelsio's 40-Gigabit Ethernet Unified Wire

TeciSoft Axiom 7101676-Ax Network Transceiver Module Fiber Optic

16Gb Short Wave SFP+ Transceiver for Oracle (2-Pack) Axiom 7101676-AX. SFP transceiver type: Fiber optic, Maximum data transfer rate: 16000 Mbit/s, Interface type: SFP+. Product colour: Silver.

TP-Link TXM431-LR Compatible | €12 | EDGE Optical Solutions

EdgeOptic's compatible is a direct drop-in replacement for the original module. 1310 nm wavelength over single-mode fiber, LC duplex connector, up to 10 km reach. Built on EdgeOptic's 10G-SFP-10

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