

# Single-module optical module TP



## Overview

TP-LINK's TL-SM321B-2 and TL-SM321A-2 is designed to work in a pair to create an on-site gigabit fiber communication up to 2km (2,000 meters). With one single-mode fiber, the pair of modules can create a full-duplex gigabit path between your switches, storage devices, and server. The SM311 series Fiber Module Cards are introduced for extending transfer distance. Attached to our managed/smart switches, they can extend the distance to several kilometers even tens of kilometers which can basically satisfy the distance requirement of LAN. The 1G optical module is already a very mature series of products, which are favored by the majority of users since its advantages of low power consumption, small size, long transmission distance, and low price. It has minimum guaranteed optical budget of 12 dB, with in most cases is enough to reach about 10 km distance. However, distance is just indicative.

## Article Content

Jul 30, 2025

LPO MSA Announces Release of Specification for Linear Pluggable Optical ...

The specification defines the necessary optical and electrical requirements for a robust ecosystem of LPO-compatible switch, NIC and module products.

Aug 02, 2025

LonRise Launches High-Performance OSFP-800G-DR8 Transceiver

Discover the details of LonRise Launches High-Performance OSFP-800G-DR8 Transceiver for Hyperscale AI Networking at LonRise Equipment Co. Ltd., a leading supplier in China for Optical

Apr 26, 2026

Datasheet Archive: 100 RPM 10 OPTICAL MODULE datasheets

View results and find 100 rpm 10 optical module datasheets and circuit and application notes in pdf format.

Dec 13, 2025

1000Base-BX WDM Bi-Directional SFP Module

TP-LINK's TL-SM321B-2 and TL-SM321A-2 is designed to work in a pair to create an on-site gigabit fiber communication up to 2km (2,000 meters). With one single-mode fiber, the pair of modules can

Jun 19, 2026

Optical Module Ceramic Ferrule Market Size, Trends, 2026 ...

The Optical Module Ceramic Ferrule Market analysis provides a comprehensive, data-driven insight into the evolving landscape of optical connectivity components, emphasizing the critical

Jan 20, 2026

Google's High-Speed Interconnect Architecture to Push

In an OCS-enabled architecture, Ironwood TPUs rely on high-speed copper for short-reach connections, while the all-optical network handles inter

Nov 03, 2025

100G LR4 Single-Mode Optical Module

QSFP28 transceiver that supports 100G connections up to 10 km using single-mode fiber with a duplex LC UPC connector.

Jan 31, 2026

The Difference Between Single/Dual Fiber and

Optical Modules differ by fiber count and mode: single/dual fiber affects cabling, while single-mode/multi-mode impacts distance and speed in networks.

Dec 09, 2025

1G SFP LX 20km

- Duplex LC connector
- Built-in digital diagnostic functions
- Up to 20km on 9/125um SMF
- Single power supply 3.3V
- RoHS Compliant
- Class 1 laser product complies with EN 60825-1
- Operating

Feb 10, 2026

Connection Schemes for Optical Module and Fiber Patch Cord

Optical modules come in various transmission rates and distances. Therefore, when selecting fiber patch cords for optical modules, it's essential to choose the type that matches the

Feb 14, 2026

Lot of 2 SFP MODULE 1.25G, SINGLE MODE LC, Tx1310nm | Elfcam

This optical module offers a reliable and durable solution for professional installations. Designed for fiber optic technicians and demanding network environments.

Mar 17, 2026

1G SFP Optical Transceiver Modules | Solid Optics

1G SFP optical transceiver modules for multi-mode and single-mode in distances ranging from 300 meters up to 80km with a limited lifetime warranty.

Apr 13, 2026

Huawei OSX010000 SFP+ 10G Single Mode Optical

Huawei OSX010000 SFP+ 10G transceiver for single-mode fiber, 1310nm wavelength, 10km range. Compliant with 10Gbase-LR standard.

Oct 12, 2025

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).

Oct 22, 2025

25G Single mode/SFP28 25G Single Mode Dual Fiber 10KM 1310nm

25G Single mode/SFP28 25G Single Mode Dual Fiber 10KM 1310nm LC Interface Fiber Optic Module Optical Module : Amazon : Computers ^ Creating a new Afterpay account or linking an

Sep 05, 2025

1.6T Optical Module Market Report: Trends and Growth

Discover the booming 1.6T optical module market poised for explosive growth through 2033. This in-depth analysis reveals market size, CAGR, key

Aug 20, 2025

200G Optical Module Market Report: Size, Growth,

200G Optical Module Market size was valued at USD 2.5 Billion in 2023 and is projected to reach USD 5.1 Billion by 2031, growing at a CAGR of 14.2% The

Jun 02, 2026

TP-Link Omada Gigabit SFP Module | 1000Base-LX

About this item Single-Mode MiniGBIC module, Supports full-duplex Wave Length: 1310nm. Data Rate: 1.25Gbps. Port Type: LC/UPC Max. Cable Length: 12.4miles

Jun 03, 2026

TP-LINK Compatible Transceivers | EDGE Optical Solutions

Browse TP-LINK compatible optical transceivers. 100% compatible, tested and certified. Fast shipping, competitive pricing.

Jan 21, 2026

Next-Generation Connectivity: The Rise of 800G OSFP 2\*FR4 Optical ...

At its core, an 800G OSFP 2\*FR4 transceiver is a hot-pluggable optical module designed for 800 Gigabit Ethernet links. Unlike traditional single-channel modules, the "2\*FR4" designation

Sep 16, 2025

Sfp Modules

Discover 20km Optical Fiber Transceiver SFP modules with 1.25G/1310nm compatibility for Cisco/Mikrotik. Single mode, DDM function, and wide temperature range for optimal performance. |

Feb 17, 2026

GlobalFoundries" Unveils Optical Module Solution Targeting CPO

MALTA, N.Y., May 5, 2026 — GlobalFoundries (GF) has introduced an optical module solution for co-packaged optics (CPO). According to the company, the Silicon photonics Co-packaged Advanced

May 26, 2026

GlobalFoundries accelerates adoption of co-packaged optics for

SCALE CPO solution is the industry's first OCI MSA capable platform and built with GF's proven silicon photonics technology MALTA, N.Y., May 4, 2026 - GlobalFoundries (Nasdaq: GFS)

Apr 21, 2026

OFC 2026 - Scaling Up Optical Network Density

Double-sided pluggable transponder. The idea is simple: combine the client optical transceiver and the coherent optical transceiver into a single pluggable module. One use case for

Jun 07, 2026

A Quick Guide to 1G Optical Transceiver

1G optical module refers to the optical module with a transmission rate of 1.25Gbps. The 1G optical module is already a very mature series of

Apr 29, 2026

SFP Optical Module 1.25G Single Optical Fiber 20km

This is a standard SFP optical module. It uses a single mode optical fiber and the speed rate can up to 1.25Gbps, transmission distance up to 20 km.

Jun 26, 2026

Wholesale Optical Transceivers Module | 100G

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical

Feb 28, 2026

Optical Module Solutions for Huawei S5700/S5720 Series Switches

When using switches, we may encounter many confusions, such as what types of optical modules are needed for different models of Huawei switches, and how to resolve issues encountered

Mar 31, 2026

GlobalFoundries Accelerates Adoption of Co-Packaged Optics for

GlobalFoundries (Nasdaq: GFS) (GF) today announced the introduction of its SCALE™ optical module solution for co-packaged optics (CPO). GF's SCALE solution, or Silicon photonics Co

## Contact Us

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