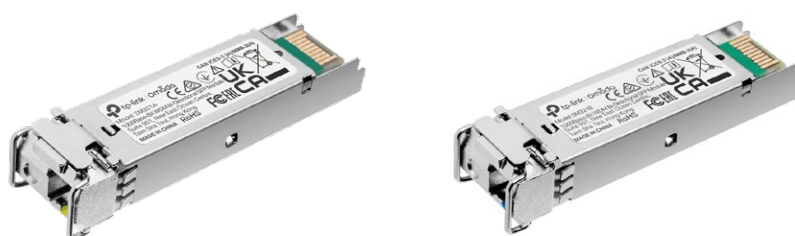


# 1000Base-BX WDM Bi-Directional SFP Module Datasheet

MODEL: SM321A/SM321B



## Highlights

- Adopts the latest standard 1000Base-BX
- Up to 20 km transmission distance in 9/125µm SMF (Single-Mode Fiber)
- Compatible with Small Form Pluggable Multi-Source Agreement (SFP-MSA)
- Supports Digital Diagnostic Monitoring (DDM)
- Supports Hot Swappable

## Overview

TP-Link's SM321A and SM321B are developed in accordance with the Small Form Pluggable Multi-Source Agreement (SFP-MSA). As a WDM Bi-Directional optical transceiver, SM321A and SM321B use an integrated LC Bi-Directional optical interface connector and the data link is up to 20 km in 9/125µm SMF (Single-Mode Fiber).

Also, SM321A and SM321B incorporate the Digital Diagnostic Monitoring (DDM) feature, which is compatible with SFF-8472. DDM supports real-time monitoring of the transceiver, and it also shows parameters including the transceiver current, transmitting/receiving optical power, and operating temperature.

TP-Link's SM321A and SM321B are used together for short-and-medium-distance fibre network in practice, and they provide fast and reliable gigabit fiber connection for switches, routers, servers, etc.

# Specifications

## General Specifications

Normal	SM321A	SM321B
Wave Length	Tx: 1550 nm Rx: 1310 nm	Tx: 1310 nm Rx: 1550 nm
Standards and Protocols	IEEE 802.3z, TCP/IP	
Cable	Single-mode Fiber	
Fiber Type	9/125 um Single-mode	
Max. Cable Length	20 km	
Data Rate	1.25 Gbps	
Port Type	LC Simplex	
Power Support	3.3 V	
Safety & Emission	FCC, CE	
DDM	Yes	
SFP-MSA	Yes	
Hot Swappable	Yes	

## Environmental and Physical Specifications

Product Operating Temperature	0 °C to 70 °C (32 °F to 158 °F)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Operating Humidity	10% to 90% RH, Non-condensing
Storage Humidity	5% to 90% RH, Non-condensing