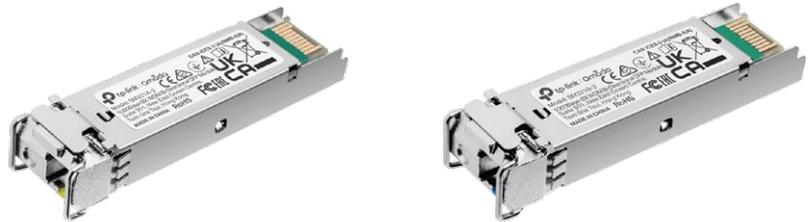# 1000Base-BX WDM Bi-Directional SFP Module Datasheet

MODEL: SM321A-2/SM321B-2

Highlights

- Adopts the latest standard 1000Base-BX

- Up to 2 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-2 and SM321B-2 are developed in accordance with the Small Form Pluggable Multi-Source Agreement (SFP-MSA). As a WDM Bi-Directional optical transceiver, SM321A-2 and SM321B-2 use an integrated LC Bi-Directional optical interface connector and the data link is up to 2 km in 9/125μm SMF (Single-Mode Fiber).

Also, SM321A-2 and SM321B-2 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-2 and SM321B-2 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-2	SM321B-2
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	2 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

tp-link