

1000Base-BX WDM Bi-Directional SFP Module

Datasheet

MODEL: TL-SM321A-2/TL-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 TL-SM321A-2 and TL-SM321B-2 are developed in accordance with the Small Form Pluggable Multi-Source Agreement (SFP-MSA). As a WDM Bi-Directional optical transceiver, TL-SM321A-2 and TL-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, TL-SM321A-2 and TL-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 TL-SM321A-2 and TL-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 | TL-SM321A-2 | TL-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 |

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