

# SFP Module

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## Datasheet

### SM321B-2

1000Base-BX WDM Bi-Directional SFP Module



## Highlights

- Adopts the latest standard 1000Base-BX
- Up to 2 km transmission distance in 9/125  $\mu\text{m}$  SMF (Single-Mode Fiber)
- Compatible with Small Form Pluggable Multi-Source Agreement (SFP-MSA)
- Supports Digital Diagnostic Monitoring (DDM)
- Supports Hot Swap

## Overview

SM321B-2 is developed in accordance with the Small Form Pluggable Multi-Source Agreement (SFP-MSA). As a WDM Bi-Directional optical transceiver, SM321B-2 uses an integrated LC Bi-Directional optical interface connector and the data link is up to 2 km in 9/125  $\mu\text{m}$  SMF (Single-Mode Fiber).

Also, SM321B-2 incorporates the Digital Diagnostic Monitoring (DDM) feature which is compatible with SFF-8472. DDM supports real-time monitoring of the transceiver, and shows parameters including the transceiver current which transmits/receives optical power and operating temperature.

SM321B-2 is used for short-and medium distance fiber network in practice, and it provides fast and stable gigabit fiber connection for switches, routers, servers, etc.

# Specifications

## Hardware Features & Performance

| Model                  |                         | SM321B-2  |
|------------------------|-------------------------|---|
| General                | Standards and Protocols | IEEE 802.3z, TCP/IP   |
|                        | Wave Length             | <ul style="list-style-type: none"><li>• TX: 1310 nm</li><li>• RX: 1550 nm</li></ul>             |
|                        | Dimensions (W*D*H)      | 2.2*0.5*0.5 in (55.4*13.7*12.9 mm)  |
|                        | Power Supply            | 3.3V  |
|                        | Safety & Emission       | FCC, CE   |
|                        | Cable                   | Single-mode fiber   |
|                        | Fiber Type              | 9/125 μm single-mode  |
|                        | Max. Cable Length       | 2 km  |
|                        | Data Rate               | 1.25Gbps  |
|                        | Port Type               | LC Simplex  |
|                        | Hardware Features       | <ul style="list-style-type: none"><li>• DDM</li><li>• SFP-MSA</li><li>• Hot Swappable</li></ul> |
|                        | Max. Laser Output Power | 0.501 mW (-3 dBm)   |
| Physical & Environment | 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   |