

# SFP Module

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## Datasheet

### SM321A-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

SM321A-2 is developed in accordance with the Small Form Pluggable Multi-Source Agreement (SFP-MSA). As a WDM Bi-Directional optical transceiver, SM321A-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, SM321A-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.

SM321A-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		SM321A-2
General	Standards and Protocols	IEEE 802.3z, TCP/IP
	Wave Length	<ul style="list-style-type: none"><li>• TX: 1550 nm</li><li>• RX: 1310 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