



RG 2.5GBASE Series Optical Modules



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| Product Overview

variety of high-density and low-power 2.5G optical modules. They are applicable to data center and campus networks, enabling cost-effective, efficient, and high-speed interconnection among switches, routers, servers, and network interface controllers (NICs).

2.5G-SFP-LX03-SM1310-BIDI-I Module

The 2.5G-SFP-LX03-SM1310-BIDI-I is aligned to IEEE 2.5GBASE-LX optical specifications and supports a link length of up to 3 kilometers over a single mode fiber (SMF) with a BIDI LC connector. It adopts the SFP form factor and operates at a wavelength of 1310 nm. The transceiver conforms to SFF-8431, SFF-8472, and RoHS standards.

2.5G-SFP-LX03-SM1550-BIDI-I Module

The 2.5G-SFP-LX03-SM1550-BIDI-I is aligned to IEEE 2.5GBASE-LX optical specifications and supports a link length of up to 3 kilometers over an SMF with a BIDI LC connector. It adopts the SFP form factor and operates at a wavelength of 1550 nm. The transceiver conforms to SFF-8431, SFF-8472, and RoHS standards.

Product Features

- Hot swapping, allowing for simplified maintenance
- High reliability and low power consumption, allowing for prolonged service life
- Compliance with RoHS and FDA standards

Product Specifications

Optical Module Specifications

Model	2.5G-SFP-LX03-SM1310-BIDI-I		2.5G-SFP-LX03-SM1550-BIDI-I	
Data rate	3.125 Gbps			
Form factor	SFP			
Connector type	BIDI LC			
Cable type	SMF			
Fiber end face finish type	Ultra Physical Contact (UPC)			
Transmitter type	FB		DFB	
Receiver type	PIN			
Reach	3 km (9,842.52 ft.)			
Bit error ratio (BER)	1.00E-12			
Data diagnosis-capable (DDM/DOM)	Yes			
Power consumption	≤ 1 W			
Transmitter Optical Parameters				
Wavelength	1310 nm TX 1550 nm RX		1550 nm TX 1310 nm RX	
Max. transmit power (AVG)	−3 dBm			
Min. transmit power (AVG)	−9 dBm			

Model	2.5G-SFP-LX03-SM1310-BIDI-I	2.5G-SFP-LX03-SM1550-BIDI-I
Min. extinction ratio	≥ 6.5 dB	
Receiver Optical Parameters		
Receive sensitivity (OMA)	< −16 dBm	
Overload optical power (AVG)	−3 dBm	
Environment and Reliability		
Operating temperature	−40°C to +85°C (−40°F to +185°F)	
Operating humidity	10% RH to 90% RH	
Storage temperature	−40°C to +85°C (−40°F to +185°F)	
Storage humidity	10% RH to 90% RH	
Dimensions and Weight		
Dimensions (W x D x H)	56.5 mm x 13.5 mm x 8.5 mm (2.22 in. x 0.51 in. x 0.33 in.)	
Weight	35 g (0.08 lbs.)	

Ordering Information

Model	Description
2.5G-SFP-LX03-SM1310-BIDI-I	2.5G LX module, SFP form factor, BIDI LC, 3 km (9,842.52 ft.) over SMF
2.5G-SFP-LX03-SM1550-BIDI-I	2.5G LX module, SFP form factor, BIDI LC, 3 km (9,842.52 ft.) over SMF



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