



# 1.25G BIDI, (SMF 10km 1310/1550), Simplex LC



SFP-9221

## H/W Version: 1

The LevelOne SFP-9221 is a high performance, cost-effective SFP transceiver. It provides up to 1.25 Gbps bi-directional data transfer rate at distances up to 10km on a single fiber core. These bi-directional SFP Transceivers allow data transfer in either direction through a single optical fiber by employing separate wavelengths travelling in either direction.

The SFP-9221 transmits using a wavelength of 1310nm and receives using a wavelength of 1550nm. When coupled with the LevelOne SFP-9231 transceiver which transmits at and receives at the opposite rates (1550nm RX and 1310nm RX) you get bi-direction data communication on a single fiber core.

LC Simplex Connector



## Key Features

- 1310nm FP LD
- Multi Data Rate: 125M to 1.25Gbps, NRZ
- Single +3.3V Power Supply
- AC/AC Differential Electrical Interface
- RoHS Compliant and Lead-free
- Compliant with Multi-Source Agreement (MSA) Small Form Factor Pluggable (SFP)
- Single LC Connector
- Compliance with specifications for IEEE-802.3z Gigabit Ethernet at 1.25Gbps
- Compliance with ANSI specifications for Fiber Channel applications at 1.06bps
- Eye Safety Designed to meet LASER Class 1 comply with EN60825-1

## Works Well With



### Switch

All LevelOne Switches with SFP Slots



### Media Converter

All LevelOne Media Converter with SFP Slots



## Technical Specifications

### Standard Compliance

IEEE 802.3z

### Data Rate Gigabit

1.25G

### Data Rate Fiber Channel

1.06Gbps

### Media Type

SMF

### Optical Transmission Power

-9 ~ -3 dBm

### Optical Receiver Sensitivity

-21 dBm

### Power Budget

12dB

### Wavelength

1550nm / 1310nm

### Transmission Range

up to 10km (9/125μm)

### Connector

LC

### Supply Voltage

3.3V

### Max Voltage/Current

6V/300mA

### Temperature

0°C ~70°C

### Humidity

5~90% (non-condensing)

### Dimensions (Lx W x H)

56.5mm x 13.7mm x 8.95mm

### Certifications

Class 1 eye safety and comply with EN 60825-1

## Application

SFP-9221

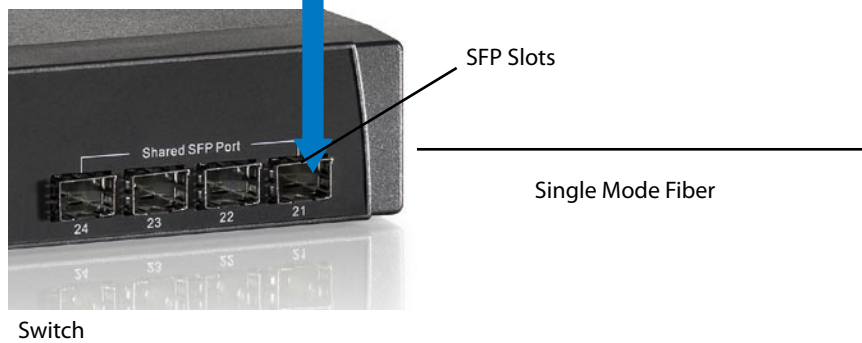


Mini-GBIC BIDI Transceiver 80km

SFP-9231



Mini-GBIC BIDI Transceiver 80km



### Order Information

**SFP-9221:** 1.25G BIDI, (SMF 10km 1310/1550), Simplex LC

### Package Contents

SFP-9221

## Related Product



**SFP-3001**  
1.25 G transceiver 850nm  
VCSEL, SX (MMF 500m),  
Duplex LC



**SFP-3111**  
1.25 G transceiver, 1310nm  
MLX (MMF 2km), Duplex LC



**SFP-3211**  
1.25 G transceiver , 1310 nm  
FP-LD, LX (SMF 10m),  
Duplex LC



**SFP-3611**  
1.25 G transceiver , 1550nm  
DFB-LD, ZX (SMF 80km),  
Duplex LC



**SFP-3711**  
1.25 G transceiver 1550nm  
DFB-LD, EZX (SMF 120km),  
Duplex LC



**SFP-1101**  
155Mbps transceiver  
1310nm FP/LED-LD,  
(MMF 2km), Duplex LC



**SFP-1311**  
155Mbps transceiver 1310nm  
FP-LD, (SMF 20km),  
Duplex LC



**SFP-1411**  
155Mbps transceiver 1310nm  
FP-LD, (SMF 40km), Duplex LC



**SFP-7321**  
155Mbps BIDI,  
(SM 20km1310/1550),  
Simplex LC



**SFP-7331**  
155Mbps BIDI, (SM  
20km1550/1310),  
Simplex LC



**SFP-7421**  
155Mbps BIDI,  
(SM 40km1310/1550),  
Simplex LC



**SFP-7431**  
155Mbps BIDI,  
(SM 40km1550/1310),  
Simplex LC



**SFP-9221**  
1.25G BIDI, (SM 10km  
1310/1550), Simplex LC



**SFP-9231**  
1.25G BIDI, (SM 10km  
1550/1310), Simplex LC



**SFP-9321**  
1.25G BIDI, (SM 20km  
1310/1550), Simplex LC



**SFP-9331**  
1.25G BIDI, (SM 20km  
1550/1310), Simplex LC



**SFP-9421**  
1.25G BIDI, (SM 40km  
1310/1550), Simplex LC



**SFP-9431**  
1.25G BIDI, (SM 40km  
1550/1310), Simplex LC



**SFP-3841**  
1.25 G transceiver TX Copper  
(100m), RJ-45 Type