



SFP-4310 Version: 2

1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 10km, TX 1310nm / RX 1550nm, -40°C to 85°C

The LevelOne SFP-4310 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-4310 transmits using a wavelength of 1310nm and receives using a wavelength of 1550nm.

When coupled with the LevelOne SFP-4320 transceiver which transmits at and receives at the opposite rates (1550nm TX and 1310nm RX) you get bi-directional data communication on a single fiber core.

This Hot-swappable SFP transceiver offers the latest Industrial standard in full-duplex Ethernet connectivity and withstand under wide range temperature operation.

Key Features

- 1.25Gbps Bi-directional single fiber link
 - Supports Digital Diagnostics Monitoring Interface (DDMI) for easy status monitoring
 - Hot-swappable providing non-stop service
 - Provides simplex LC connector
 - -40°C to 85°C operating temperature range
 - RoHS compliant and Lead Free
 - Compatible with SFP Multi-Sourcing Agreement (MSA) standards
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Works With



SFP-4320

1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 10km, TX 1550nm / RX 1310nm, -40°C to 85°C

Specifications

System Specifications

Protocols:

SFP MSA SFF-8074i Compliant

**Port:**

- Single LC Connector, Single mode fiber(SMF)
- Support Single-mode fiber cable (9/125µm, G.652)

Wavelength (nm):

1310nm (FP Laser Transmitter)

Optical Receive Sensitivity:

-25dBm (RX Sensitivity @1.25Gb/s)

Optical Link Power Budget:

-9 to -3dBm (TX Power)

-25 to -2dBm (RX Power)

Power Input:

3.47V/300mA (Max)

Power Consumption:

<800mW (0~70°C)

<1000mW (-40~85°C)

Data Rate:

Up to 1.25Gb/s data links

Optical Transmission Power:

-3 dBm (Max Output Opt Power)

Operating Temperature (°C):

0°C to 70°C

Operating Humidity (Non-condensing):

0% to 85%

Storage Temperature (°C):

-40°C to 85°C

Features

General:

Hot-swappable

Management:

DDMI (Digital Diagnostics Monitoring Interface)

Performance

Operating Distance:

10km

Physical Specifications

Dimensions (W x D x H mm):

13.7 x 56.6 x 12.4 mm

Weight (g):

19g

Approval and Compliance

EMI/EMS:

CE

Safety:

- EMI compatible with FCC Part 15 Class B EN55022 Class B (CISPR 22B) VCCI Class B
- Laser Eye Safety compatible with FDA 21CFR 1040.10 and 1040.11 EN60950, EN (IEC)60825-1,2

Environmental Test:

RoHS compliant with 2002/95/EC 4.1&4.2 2005/747/EC

Others:

- ESD to the Electrical PINs: compatible with MIL-STD-883 Method 3015
 - ESD to the Single LC Receptacle: compatible with IEC 61000-4-2
 - Immunity compatible with IEC 61000-4-3
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Order Information

SFP-4310

Package Contents

SFP-4310

Quick Installation Guide