



SFP-4380 Version: 2

1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 60km, TX 1550nm / RX 1310nm, -40°C to 85°C

The LevelOne SFP-4380 is a high performance, cost-effective SFP transceiver. It provides up to 1.25 Gbps bi-directional data transfer rate at distances up to 60km 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-4380 transmits using a wavelength of 1550nm and receives using a wavelength of 1310nm.

When coupled with the LevelOne SFP-4370 transceiver which transmits at and receives at the opposite rates (1310nm TX and 1550nm 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 withstands 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

Specifications

System Specifications

Protocols:

SFP MSA SFF-8074i Compliant

Port:

Simplex LC connector

Wavelength (nm):

TX 1550nm / RX 1310nm (DFB Laser Optical Components)

Optical Receive Sensitivity:

-25dBm

Power Input:

- 3.3V (Supply Voltage)
- 3.47V/300mA (Max Voltage/Current)

**Power Consumption:**

- 0.8W (0°C to 70°C)
- 1W (-40°C to -85°C)

Data Rate:

- 1.25Gbps (Gigabit Ethernet)
- 1.063Gbps (Fibre Channel)

Optical Transmission Power:

-2 to +3dBm

Operating Temperature (°C):

0°C to 70°C

Operating Humidity (Non-condensing):

0% to 85%

Storage Temperature (°C):

-40°C to 85°C

Storage Humidity (Non-condensing):

5% to 95%

Features

General:

Hot-swappable

Management:

DDMI (Digital Diagnostics Monitoring Interface)

Performance

Operating Distance:

60Km (9/125µm Single-mode fiber cable)

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
- EMI compatible with FCC Part 15 Class B EN55022 Class B (CISPR 22B) VCCI Class B

Safety:

- 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
- ISO 14001:2015
- ISO 9001:2015

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

Order Information

SFP-4380

Package Contents

SFP-4380

Quick Installation Guide

Digital Data Communications GmbH
Hohe Straße 1, 44139 Dortmund, Germany

Specifications are subject to change without notice. No liability or responsibility for any errors or omissions in the content.
Copyright © Digital Data Communications GmbH, Germany. All Rights Reserved.