

SFP-4210 Version: 2

1.25Gbps Single-mode Industrial SFP Transceiver, 10km, 1310nm, -40°C to 85°C

LevelOne SFP-4210 is a high performance and cost-effective single-mode SFP transceiver. Intended for use with Gigabit Ethernet, it provides up to 1.25 Gbps bidirectional data transfer rate on a single duplex fiber core. For use with 9 and 125 micron fiber cables, it can reach a distance of up to 10km. The SFP-4210 transceiver operates using a wavelength of 1310nm with a FP Laser Diode light source and has an LC port. This Hot-swappable SFP transceiver offers the latest Industrial standard in full-duplex Ethernet connectivity and withstand under wide range temperature operation.

Key Features

- IEEE 802.3z Gigabit Ethernet compliant
- Supports Digital Diagnostics Monitoring Interface (DDMI) for easy status monitoring
- Provides duplex LC connector
- Hot-swappable providing non-stop service
- -40°C to 85°C operating temperature range
- Compatible with SFP Multi-Sourcing Agreement (MSA) standards

Specifications

System Specifications

Standards:

1000Base-LX (IEEE802.3z complied)

Protocols:

SFP MSA SFF-8074i Compliant

Port:

- Duplex LC Connector
- 9/125 μm Single-mode Fiber

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

Power Consumption:

<800mW (0°C to 70°C)

<1000mW (-40°C to 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):

14 x 57 x 12 mm

Weight (g):

20g

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

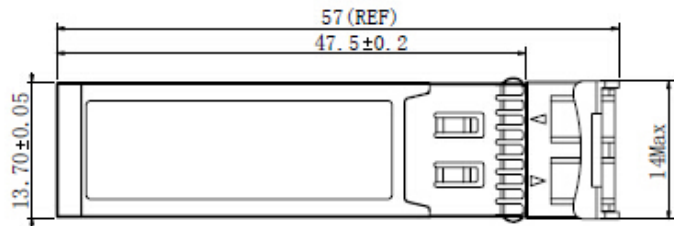
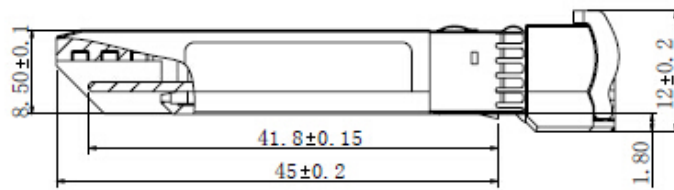
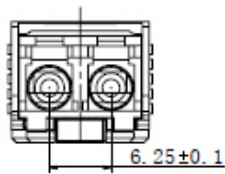
Environmental Test:

- RoHS compliant with 2002/95/EC 4.1&4.2 2005/747/EC
- ISO 14001:2015
- ISO 9001:2015

Others:

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

Diagram



Unit : mm

Order Information

SFP-4210

Package Contents

SFP-4210
Quick Installation Guide