



SFP-4270 Version: 2

1.25Gbps Single-mode Industrial SFP Transceiver, 80km, 1550nm, -40°C to 85°C

The levelOne SFP-4270 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 80km. The SFP-4270 transceiver operates using a wavelength of 1550nm with a DFB 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

- 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

Protocols:

SFP MSA SFF-8074i Compliant

Port:

Duplex LC connector

Wavelength (nm):

1550nm (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:

0 to +5dBm

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:

80km (9/125µm Single-mode fiber cable)

Physical Specifications

Dimensions (W x D x H mm):

14 x 57 x 12 mm

Weight (g):

20g

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 Duplex LC Receptacle: compatible with IEC 61000-4-2
- Immunity compatible with IEC 61000-4-3

Order Information

SFP-4270

Package Contents

SFP-4270

Quick Installation Guide

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