



SFP-2230 Version: 2

155Mbps Single-mode Industrial SFP Transceiver, 40km, 1310nm, -40°C to 85°C

The levelOne SFP-2230 is a high performance and cost-effective single-mode Industrial SFP transceiver. Intended for use with 100BASE-FX, it provides up to 155 Mbps bi-directional 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 30km. The SFP-2230 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

- 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:

100BASE-FX

Protocols:

- SFP MSA SFF-8074i Compliant
- SONET OC-3 IR-1 / SDH STM S-I.1

Port:

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

Wavelength (nm):

- 1310nm (FP Laser Transmitter)
- 1263 through 1360 nm (Transmission Optical Wavelength)
- 1270 through 1600 nm (Receive Optical Center Wavelength)

Optical Receive Sensitivity:

-34dBm (RX Sensitivity @155 Mb/s)

Optical Link Power Budget:

- -5 to 0dBm (TX Power)
- -34 to -10dBm (RX Power)

**Power Input:**

3.47V/300mA (Max)

Power Consumption:

- <800mW (0~70°C)
- <1000mW (-40~85°C)

Data Rate:

Up to 155Mb/s data links

Optical Transmission Power:

0dBm (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:

2km

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

Order Information

SFP-2230

Package Contents

SFP-2230

Quick Installation Guide

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

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