



SFP-7421 Version: 3

155M Single-mode BIDI SFP Transceiver (40km, TX/RX over 1310/1550nm)

The LevelOne SFP-7421 is a high performance, cost-effective SFP transceiver. It provides up to 155Mbps bi-directional data transfer rate at distances up to 40km 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-7421 transmits using a wavelength of 1310nm and receives using a wavelength of 1550nm. When coupled with the LevelOne SFP-7431 transceiver which transmits at and receives at the opposite rates (1310nm TX and 1550nm RX) you get bi-direction data communication on a single fiber core.



Key Features

- 1310nm FP LD
- Data Rate: 125~155Mbps, NRZ
- Single +3.3V Power Supply
- RoHS Compliant and Lead-free
- AC/AC Differential Electrical Interface
- Compliant with Multi-Source Agreement(MSA)
- Compliant with SFF-8472 Digital Diagnostic Monitoring Interface
- Single LC Connector
- Compliance with specifications for IEEE802.3ah 100BASE-BX10-U
- Compliance with FDDI PMD Standard
- Compliance with ATM Standard

Specifications

System Specifications

Connectors and Cabling:

Simplex LC Connector, Single-mode fiber(SMF)

Wavelength(nm):

T 1310nm / R 1550nm

Transmit Power:

-8 ~ -3 dBm

Power Budget:

26 dB

Power:

Supply Voltage: 3.3V

Max Voltage/Current: 6V/300mA

Standards & Protocols:

IEEE 802.3ah 100BASE-BX10-U

SFP Multi-Sourcing Agreement(MSA)

Compliance with FDDI PMD Standard

Compliance with ATM Standard

Receive Sensitivity(dBm):

-34 dBm

Features

General:

Hot-swappable

Performance

Data Transfer Rate:

155Mbps Bi-directional data link

Operating Distance:

up to 40m (9/125?m)

Environment

Temperature (°C):

Operating: 0°C ~ 70°C

Storage: -40 ~ 85°C

Humidity (Non-condensing):

5 ~ 95%

Physical Specifications

Dimensions (W x D x H mm):

13.7 x 56.5 x 8.95 mm

Weight (g):

20g

Others

Approval and Compliance:

Class 1 eye safety and comply with EN 60825-1

CE, FCC, RoHS

Order Information

SFP-7421

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