



SFP-7421 Version: 3

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## 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.



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### 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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