



SFP-6421 Version: 1

10Gbps Single-mode BIDI SFP+ Transceiver, 10km, TX 1270nm / RX 1330nm

The LevelOne SFP-6421 is a high performance, costeffective SFP transceiver. It provides up to 10 Gbps bi-directional data transfer rate at distances up to 10km 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-6421 transmits using a wavelength of 1270nm and receives using a wavelength of 1330nm. When coupled with the LevelOne SFP-6521 transceiver which transmits at and receives at the opposite rates (1330nm TX and 1270nm RX) you get bi-direction data communication on a single fiber core. The LevelOne SFP-6421 is therefore an optimal solution for a high number of fiber lengths on just a few fibers.

Key Features

- 10Gbps Bi-directional single fiber link
- Supports Digital Diagnostics Monitoring Interface (DDMI) for easy status monitoring
- Compliant with IEEE 802.3ae 10GBase-LR, 10GBase-LW standards
- Compatible with SFP Multi-Sourcing Agreement (MSA) standards
- Hot-swappable providing non-stop service
- RoHS compliant and Lead Free

Specifications

System Specifications

Standards:

- IEEE 802.3ae 10GBase-LR
- IEEE 802.3ae 10GBase-LW

Protocols:

SFP Multi-Sourcing Agreement (MSA) SFF-8472 SFF-8431 SFF-8432

Port:

- Bi-directional
- 9/125 µm Single-mode Fiber
- Duplex LC Receptacle

Wavelength (nm):

TX 1270nm/ RX 1330nm

Optical Receive Sensitivity: -13dBm

Optical Link Power Budget:

- TX : -2 to 3dBm
- RX : -13 to 0.5dBm

Power Input: 3.47V / 300mA

Power Consumption:

<1.0W (0 to 70°C) <1.2W (-40 to 85°C)

Data Rate: Up to 10.3Gb/s data links

Optical Transmission Power: 3dBm

Operating Temperature (°C): 0 to 70°C

Operating Humidity (Non-condensing): 0 to 85%

Storage Temperature (°C): -40 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): 13.7 x 56.5 x 11.8 mm

Weight (g): 20g

Approval and Compliance

EMI/EMS:

CE

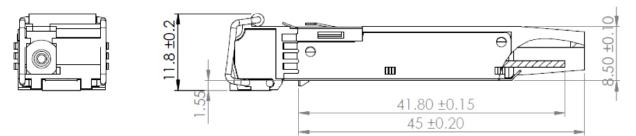
Safety:

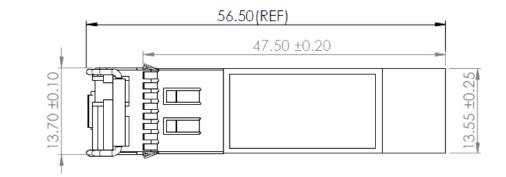
- EMI compatible with FCC Part 15 Class B EN55022 Class B (CISPR 22B) VCCI Class B
- Laser Eye Safety compatible with FDA 21CFR 1040.10 and 1040.11 EN60950, EN (IEC) 60825-1,2
- Immunity compatible with IEC 61000-4-3
- ESD to the Electrical PINs: compatible with MIL-STD-883 Method 3015
- ESD to the Duplex LC Receptacle: compatible with IEC 61000-4-2

Environmental Test:

RoHS

Diagram





Unit : mm

Order Information

SFP-6421

Package Contents

SFP-6421 Quick Installation Guide

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