



SFP-6181 Version: 1

10Gbps Single-mode SFP+ Transceiver, 80km, 1550nm

The LevelOne SFP-6181 SFP-Plus Transceiver is hot-swappable multi-purpose optical module supports 10Gigabit Ethernet applications across most switching and routing platforms. The transceiver supports to operate at 10Gbps serial optical data transfer rates on a single duplex fiber core with a length of up to 80km (SMF), ideally suited for data centers, enterprise and storage area networks. In addition, the LevelOne SFP-6181 adopts the most advanced technology to minimize the power consumption in ultra-high speed.

Key Features

- High-quality 10Gbase short range SFP-Plus transceiver
- Supports Digital Diagnostics Monitoring Interface (DDMI) for easy status monitoring
- Compatible with SFP Multi-Sourcing Agreement (MSA) standards
- Provides duplex LC connector
- Hot-swappable providing non-stop service
- RoHS compliant and Lead Free

Specifications

System Specifications

Standards:

- IEEE 802.3ae 10GBase-ZR

Port:

- Duplex LC Connector
- 9/125 um Single-mode Fiber.

Wavelength (nm):

- 1550nm

Optical Receive Sensitivity:

- -24dBm

Optical Link Power Budget:

- 24dB

Power Input:

- 3.3 V / 600 mA

Power Consumption:

- <2.0W(0~70°C)
- <2.3W(0~85°C)
- <2.3W(-40~85°C)

**Data Rate:**

- 10Gbps Bi-directional data link

Optical Transmission Power:

- Tx power: 0 to 4 dBm
- Rx power: -24 to -7 dBm

Operating Temperature (°C):

- 0°~70°C

Operating Humidity (Non-condensing):

- 0~85%

Storage Temperature (°C):

- -40°~85°C

Features

General:

- Built-in dual CDR
- Hot-swappable
- Metal enclosure for lower EMI

Management:

- DDMI (Digital Diagnostics Monitoring Interface)

Performance

Operating Distance:

- 80 km

Physical Specifications

Dimensions (W x D x H mm):

- 57 mm x 13.55 mm x 12.3 mm

Weight (g):

- 20g

Approval and Compliance

EMI/EMS:

- EMC Directive 2014/53/EU
- IEC 61000-4-3 / IEC 61000-4-2

Safety:

- EMI compatible with FCC Part 15 Class B EN55022 Class B (CISPR 22B) VCCI Class B.
- Class 1 Laser Eye Safety compatible with FDA 21CFR 1040.10 and 1040.11 EN60950, EN (IEC)60825-1,2
- 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

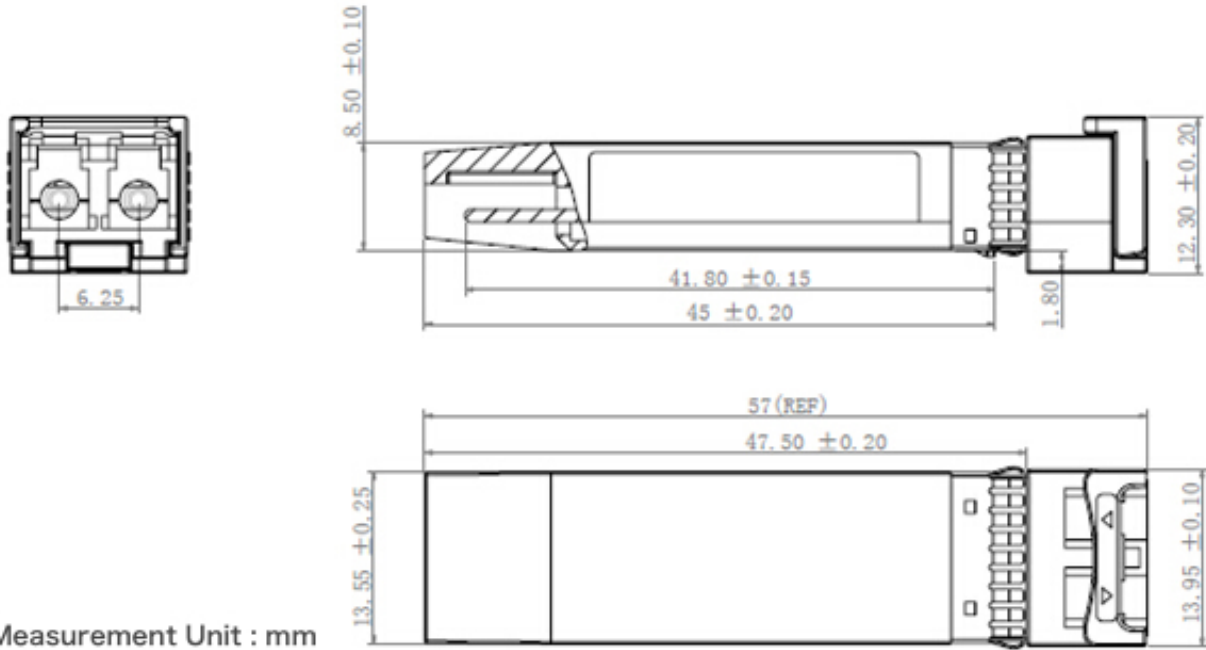
Environmental Test:

- RoHS Directive 2011/65/EU

Others:

- MIL-STD-883 Method 3015

Diagram



Measurement Unit : mm

Order Information

SFP-6181

Package Contents

SFP-6181

Quick Installation Guide