# SFP Optical Module
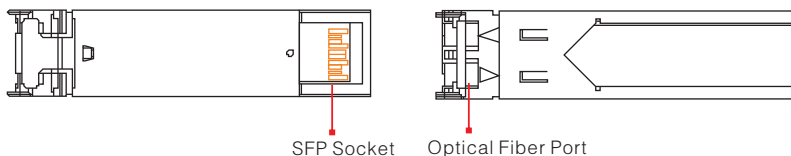# 155M Single Optical Fiber 20km

This is a standard SFP optical module. It uses a single mode optical fiber and the speed rate can up to 155Mbps, transmission distance up to 20km. This product need to use in pair and match up with fiber converter and optical Ethernet switch with SFP port, it can be used in Ethernet, telecom and optical fiber communication and other industries...

## ▉Feature

- Use SFP packaging form, LC connector, support SFF8472 standard;
- Support hot plug ;
- Transmitter use1310nm FP laser and 1550PIN−TIA;
  Receiver use 1550nm FP laser and1310nm PIN−TIA;
- The data transmission distance of single mode optical fiber can up to 20 km;
- Data input and output ports are comply with the low voltage emitter coupled logic(LVPECL) standard;
- Low electromagnetic interference to the environment, strong ESD protection;
- Meet IEC−60825 laser safety standard;
- Meet RoHS standard.

## ▉Board diagram



SFP Socket    Optical Fiber Port

## ▉Installation step

Please check the following items before installation. If any missing, please contact the dealer.

- SFP Optical Module, 155M single optical fiber 20km          1pc
- User manual                                                                          1pc

### Please follow the following step

1) Please turn off the signal source and the device's power, installation with power on may damage the device;
2) Plug 155M single optical fiber 20km SFP optical module into SFP socket;
3) Check if the installation is correct and device is good, make sure all the connection is reliable and power up the system;
4) Make sure the optical communication is normal.

## ■ Specification

| Item | | Description |
|---|---|---|
| Power | Power Supply | The Host Power Supply |
| | Voltage Range | DC 3.15V ~ 3.45V |
| | Consumption | 1W |
| Optical Characteristics | Optical Wave Length | 1310nm/1550nm and 1550nm/1310nm; |
| | Emission Light Power | −15 ~ −3dBm |
| | Receiver Sensitivity | −34 dBm |
| Transmission Characteristics | Optical Fiber Type | Single mode 9/125um, multi−mode 50/125um |
| | Optical Fiber Port | LC |
| | Transmission Distance | Single mode 20km, multi−mode300m |
| Protection | ESD | 1a  contact discharge 3 level<br>1b  air discharge 3 level<br>Per: IEC61000−4−2 |
| Environmental | Working Temperature | 0℃~70℃ |
| | Storage Temperature | −40℃~70℃ |
| | Humidity (Non−condensing) | 0~95% |
| Mechanical | Dimension ( L × W × H ) | 55.4mm × 13.7mm × 6.25mm |
| | Material | Stainless Steel |
| | Color | White |
| | Weight | 17g |

*Product  are subject to change without prior notice*

## ■ Trouble Shooting

**Please find the following solution when the device doesn't work**

● Please confirm if the installation is correct;

● Please confirm the module plugged is match with the requirement;

● If the problem still exist, please contact the factory.