

Installation

SFP Transceiver Module

You can select different SFP modules as required (Please refer to our SFP selection list for the appropriate module). To insert/remove the SFP, the procedures are as follow:



1. On the side panel, insert the SFP module into the SFP port until it is securely locked.



2. Connect the optical fiber (1/2 core) to the LC connector(s) of the SFP.

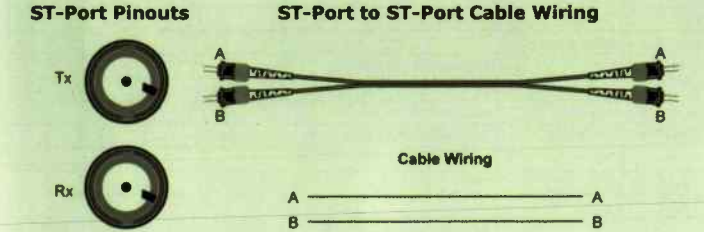
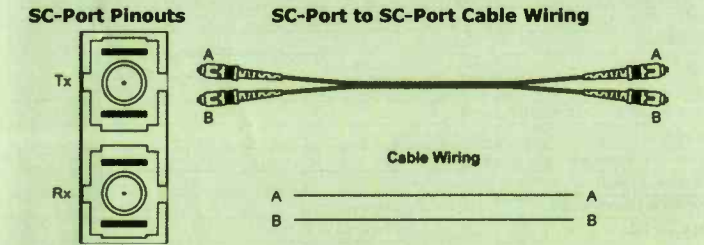


3. To remove the SFP module, press down the lock of the LC connector of the optical fiber to pull out the fiber cable.

1×9 Transceiver Module

SC / ST / FC Fiber Optic Port Connection (SC/ST/FC optional)

The concept behind the SC/ST/FC port and cable is straight forward. Suppose you are connecting devices I and II. Contrary to electrical signals, optical signals do not require a circuit in order to transmit data. Consequently, one of the optical lines is used to transmit data from device I to device II, and the other optical line is used transmit data from device II to device I, for full-duplex transmission. All you need to remember is to connect the Tx (transmit) port of device I to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II. If you make your own cables, we suggest labeling the two sides of the same line with the same letter (A-to-A and B-to-B, as shown below, or A1-to-A2 and B1-to-B2)



ATTENTION:

- 1.This is a Class 1 Laser/LED product. To avoid causing serious damage to your eyes, do not stare directly into the laser beam.
- 2.The above text is for dual fiber port connection only; if for single fiber port connection, just using 1 fiber cable for connection, not need to tell Tx or Rx side

The Port Status LEDs

LED	State	Indication
PWR	On	Power on
	Off	Power off
FX	Steady	A valid network connection established
	Flashing	Transmitting or receiving data A Stands for Activity
L/A (RJ45)	Steady	A valid network connection established
	Flashing	Transmitting or receiving data A Stands for Activity
PoE	On	PoE Normal
	Off	PoE not activate

Warranty

Thank you very much for using our products. The warranty time is five year and life-time maintenance and tech support. During this period, any breakdown under normal usage circumstance , our company will be responsible for giving free maintain. Free maintain won't be given under the following circumstance: The malfunction and damaged caused by incorrect use, the unauthorized repairs and alteration; The damage caused by fire, flood, abnormal voltage, other natural disasters and secondary product damage; The product malfunction caused by not in accordance with the user manual operation; The malfunction and damaged caused by the other barriers(man-made factors or external device).

Note: If you have any questions or find the Ethernet switch don' t work, please contact us. Our professional technical staff will teach you how to use or help you find the problem and solve it.

Industrial Gigabit Ethernet (PoE) Media Converter Switch User Manual



This quick start guide describes how to install and use the Hardened SFP Media ConverterThis is the Media Converter of choice for harsh environments constrained by space

General

To ensure trouble free transportation and storage, all products must be thoroughly inspected, tested and properly packed before delivery. Check the product upon receipt for any visible damage which may have been caused during shipment.

Overview

The Industrial Ethernet(PoE) Media Converter/Switch features a high-strength IP40 protective casing, and supports redundant power supply to enhance the reliability of communication networks and meets EN55022 standard, Industrial-grade EMC design, with wide operating temperature range from -40°C to 75°C. The Ethernet port supports both half-duplex and full-duplex mode. It possesses characteristics such as resistance to high and low temperatures, vibration, corrosion, and electromagnetic interference. making it widely applicable in various fields such as smart grids, rail transportation, integrated pipe corridors, intelligent transportation, smart cities, mining and metallurgy, oil and petrochemicals, new energy, smart factories, ships, defense industry, and building security, providing favorable protection for industrial communication. The Industrial Ethernet(PoE) Media Converter/Switch Series device using a standard 35mm DIN rail, are easy to mount on a DIN rail or in distribution boxes.

Package Content

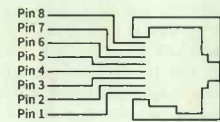
- Ethernet Switch (or Media Converter) x 1
- User Manual x 1
- L-shaped wall mount bracket x 1

Physical Description

Model	Content	Front Panel	Front Panel(PoE)
Mini Industrial 1-RJ45 Port +1SFP Ethernet Switch			
Mini Industrial 2-RJ45 Port +1SFP Ethernet Switch			
Mini Industrial 3-RJ45 Port +1SFP Ethernet Switch			
Mini Industrial 4-RJ45 Port +1SFP Ethernet Switch			
Mini Industrial 5-RJ45 Port +1SFP Ethernet Switch			
Mini Industrial 1-RJ45 Port +1SC Ethernet Switch			
Mini Industrial 2-RJ45 Port +1SC Ethernet Switch			
Mini Industrial 3-RJ45 Port +1SC Ethernet Switch			
Mini Industrial 4-RJ45 Port +1SC Ethernet Switch			

Interface

Pin	Assignment	
	MDI	MDIX
1	TP0+	TP1+
2	TP0-	TP1-
3	TP1+	TP0+
4	TP2+	TP3+
5	TP2-	TP3-
6	TP1-	TP0-
7	TP3+	TP2+
8	TP3-	TP2-

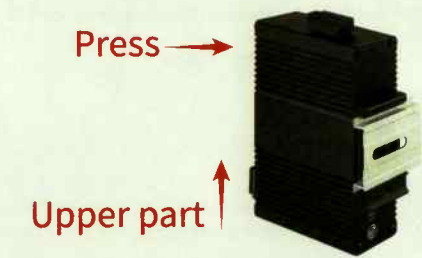


Specification

Ethernet	
Standards:	IEEE 802.3 Ethernet
	IEEE 802.3u Fast Ethernet
	IEEE 802.3ab Gigabit Ethernet
	IEEE 802.3x Full-Duplex Flow Control
	EEE 802.3az Energy Efficient Ethernet (EEE)
	IEEE 802.3at Power over Ethernet Plus PSE
Forward & Filtering Rate:	IEEE 802.3af Power over Ethernet Plus
	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1488,000pps (1000Mbps)
Packet Buffer:	1Mbits
Packet Length:	9Kbytes
MAC Address Table:	8K
Interface	
Ethernet Port:	RJ45 10/100/1000Mbps
Optical Port:	SFP/SC 1000Base-X
PoE(Power over Ethernet)-Optional	
Standard:	IEEE802.3af/at
Power Pin Assignment:	45+,78-
Environmental	
Operating Temperature:	-40°C to 80°C (-40°F to 176° F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing
Storage Temperature:	6KV
MTBF	>200,000 hrs
Electrical and Mechanical	
Input Power:	DC5V--DC56 (Non-PoE)
	DC12V--DC56V(POE)
Power Consumption:	<3W (PoE Not In Use)
Power Input Overload:	Automatic Resettable
Reverse Polarity	Present
Dimensions (WxDxH):	100 x 70 x 30mm
Weight:	0.25kg
Casing:	Aluminum Case
Mounting Options:	DIN-Rail/ wall-mount

DIN Rail Installation

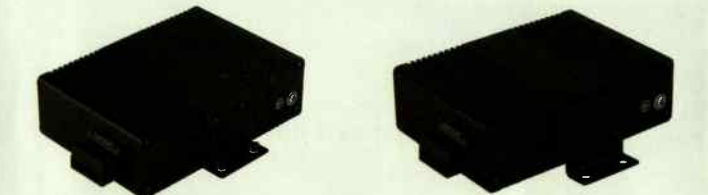
The device can be installed on a DIN rail. Installation steps are as follows:



Lock the upper part of the DIN rail clip on the upper side of the track. Gently press it until the clip is securely locked on the track.

Wall Mount Installation

The device can also be installed on a wall or a flat surface. Installation steps are as follows



1. Tighten the screws to fix the wall mount bracket.
2. Mount the switch on the wall or on a flat surface with 2 screws piercing through the mounting holes to secure it in position.