10/100M Fast Ethernet Media Converter With One SFP Slot

User's Manual

Copyright Statement

FCC Warning

The 10/100M Fast Ethernet Media Converter series have been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These standards are designed to provide reasonable protection against harmful interference when these devices are operated in a commercial environment. These devices generate, use, and can radiate radio frequency energy and may cause harmful interference to radio communications unless installed in accordance with this User's Guide. Operation of these devices in a residential area is likely to cause harmful interference which will make the user responsible for the appropriate remedial action at his / her own expense.

CE Mark Warning

These are Class A products. In a domestic environment these products may cause radio interference in which case the user will need to consider adequate preventative methods.

1. Packing list

The box should contain the following items:

- The Media Converter
- AC-DC Power Adapter (for external models) or Power Cord (for internal models)
- The User's Manual
- Warranty Card

Please notify your sales representative immediately if any items are missing or damaged.

2. Overview

The 10/100M Fast Ethernet Media Converter series is designed to meet the massive needs for network deployment and able to extend a copper based Fast network via fiber cable to a maximum distance up to 120KM.

Our 10/100M Fast Ethernet Media Converter series is fully compliant with IEEE802.3, IEEE802.3U, 10/100Base-TX, 100Base-FX, standards. It canbe installed into a Standard Converter Chassis. The installation & operation procedures are simple & straightforward. Operation status can be locally monitored through a set of Diagnostic LED located in the front panel.

Features:

10/100Base-TX to 100Base-FX Converter
Standards : IEEE802.3, IEEE802.3U, 10/100Base-TX, 100Base-FX
Interface: 1 x RJ-45 connector 1 x SFP slot (If needed , we can offer converters with 2 or 4 RJ-45 ethernet ports .)
Flow Control : TEEE802.3x flow control for full duplex mode .Back-pressure flow control for half duplex model.
LED: Power , FX,FX-LINK/ACT,FDX,TX-100,TX-LINK/ACT

3. Installation

- Attach fiber cable from the media converter to the fiber network. The fiber connections must be matched transmit socket to receive socket, the TX ,RX fiber cable must be paired at both ends .

- Attach a UTP cable from the 10/100BASE-T network to the RJ-45 port on the media converter . Connect the power adapter to the media converter and check that the Power LED lights up.
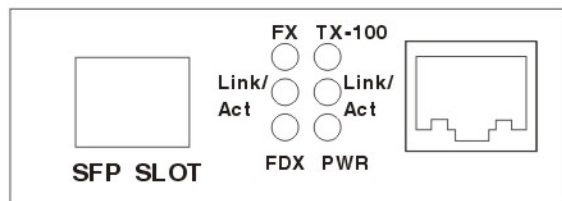- The TX-LINK/ACT and FX-LINK/ACT LEDs will light up when all the cable connections are satisfactory.
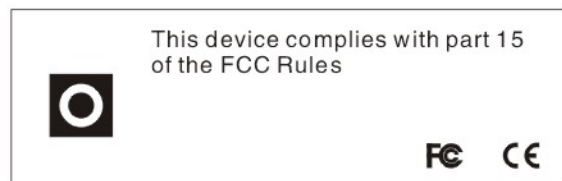

Table 1 : Front panel

This device complies with part 15 of the FCC Rules

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Table 2 : Back panel .

4. LED Description

LED indicator lamp	Status	Explanation
FX Link/Act	On	Connection status display for fiber link. "ON" indicates that Fiber link is in correct connection.
	Blink	Active status display of fiber link "Blink" Indicates packet goes through Fx end.
TX Link/Act	On	Connection status display for electric link. "ON" indicates that electric link is in correct connection.
	Blink	Active status display of fiber link "Blink" indicates packet goes through Tx end.
FDX	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
FX	On	Fiber signal is detected.
TX/100	On	Transfer rate of electric interface is 100Mbps.
	Off	Rate of electric interface is 10Mbps

5. Technical Specifications

- Standard Protocol: IEEE802.3 10 Base-T standardIEEE 802.3u 100Base-TX/FX standard
- Connector:one RJ-45 connector, one SC/ST fiber connector .
- Operation mode: full duplex mode or half duplex mode
- Power supply parameter: outside: 5V DC 1A built-in: 110-265V AC 48VDC
- Environmental temperature: 0℃-60 ℃
- Relative humidity: 5%-90%
- TP cable: Cat5 UTP cable
- Fiber :50/125,62.5/125um multi-mode fiber ; 9/125, 10/125um single-mode fiber.
- Dimensions:
  External power supply: 26mm x 71mm x 94mm
  Built-in power supply: 40mm x 110mm x 140mm

Cautions:

- This product is suitable for indoor application.
- Put on the dust cover of fiber interface when not used.
- It is forbidden to stare at the TX fiber-transfer end with naked eyes.