



# 10/100M Fast Ethernet Media Converter User's Manual

## I、 Product Features:

1. In accordance with IEEE802.3 10Base-T and IEEE802.3u 100Base-TX, 100Base-FX standard;
2. Support full-duplex and half-duplex transmission mode, can automatically negotiate;
3. Electrical port can be adaptive parallel line / cross line connection;
4. Provide multiple fiber transmission modes such as dual fiber multimode, dual fiber single mode and single fiber single mode;
5. Power supply: power supply built-in and power supply optional;
6. Maximum transmission distance up to 80Km;
7. With LFP link detection function, Real-time monitoring can be realized on the link connection;

## II、 Product Protocol

Follow IEEE802.3 10Base-T, IEEE802.u 100Base-TX, 100Base-FX

## III、 Product Category

1. According to Dimension:  
Built-in Power Adapter MC  
External Power Adapter MC
2. According to Number of Fiber:  
Single-Fiber MC  
Dual-Fiber MC
3. According to Type of Fiber:  
Multi-mode MC  
Single-Mode MC

## 4. Panel

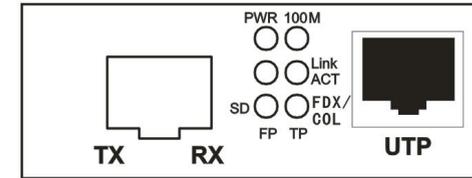


Figure 3.1 SFP slot front panel

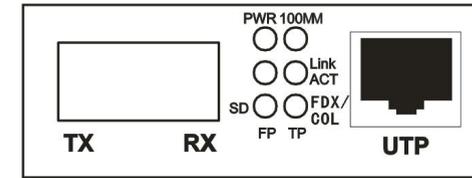


Figure 3.2 front panel

## 5. Back of the structure diagram



## IV、 LED Indicator Status Description

Table 4.1 The led of MC indicator Description

LED	function	status	Description
PWR	Power LED	ON	Power is ON.
		OFF	Power is OFF.
100M	UTP Port Speed LED	ON	100M
		OFF	10M
LINK/ACT	Fiber Port	ON	Fiber Port is Linked.

(FP)	Link/Action Status LED	Blink	Fiber Port is Activated
		OFF	Fiber Port is NOT Linked.
LINK/ACT (TP)	UTP Port Link/Action Status LED	ON	UTP Port is Linked
		Blink	UTP Port is Activated
		OFF	UTP Port is NOT Linked
SD	Fiber Signal Status LED	ON	Fiber Signal is Detected.
		OFF	Fiber Signal is NOT Detected.
FDX/COL	UTP Port Full Duplex LED	ON	Full duplex
		OFF	Half duplex

## V、 DIP switch instructions

Switch Number	Abbreviation of Function	Instructions on Functions of Dial Switches:
1	LFP	Link fault pass through(LFP) Down: disabled Up: enable(default) Link status of one port is passed to another port
2	Direct_Wire	Combined functions of Switch 2 and Switch 3 is shown below Direct_Wire ,Fast_FWD Description of Combined functions Down-Down: storage forwarding exchanging mode (default)
3	Fast_FWD	Down-Up: Modified cut-through switch

		mode Up-Down: Converter mode Up-Up: Converter mode with automatic change/ forwarding
5	X_EN	IEEE802.3X enable on TP port and fiber port Down: enable(default) Up: disable
4	TP_Force	TP_Force Speed_Mode Duplex_Mode functional description Down-Down-Down:100M/10M full-duplex/half-duplex with automatic adaptation(default)
6	Speed_Mode	Down-Down -Up: 100M/10M half-duplex with automatic adaptation Down -Up-Down: 10M full-duplex/half-duplex with automatic adaptation Down -Up-Up: 10M half-duplex with automatic adaptation
7	Duplex_Mode	Up-Down-Down:100M full-duplex with automatic adaptation Up - Up-Down: 10M full-duplex with automatic adaptation Up-Down-Up: 100M half-duplex with automatic adaptation Up - Up-Up: 10M half-duplex with automatic adaptation
8	FX_Full	Set the duplex of fiber port Down: full duplex(default) Up: half-duplex;

## VI、 Installation and Connections

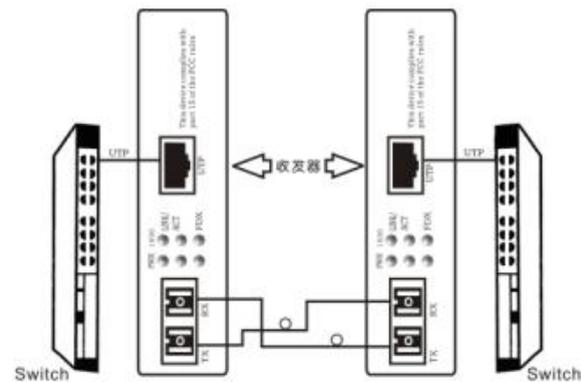


Figure 6.1 MC Connection diagram

## VII、 Fiber transmission features:

Table7.1 MC Transmission features

Fiber mode	TX Power dBm	Rx Sen dBm	Wavelength	Distance
Multi-mode dual fiber	-9~-3	<-19	850nm	550m
Multi-mode dual fiber	-20~-12	<-30	1310nm	1 Km
Single-mode dual fiber	-15~-3	<-30	1310nm	20 Km
Single-mode dual fiber	-9~-3	<-32	1310nm	40 Km
Single-mode dual fiber	-6~0	<-32	1550nm	60 Km
Single-mode dual fiber	-5~0	<-34	1550nm	80 Km
Single-mode single fiber	-15~-3	<-30	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/R	20 Km

			x1310nm	
Single-mode single fiber	-9~-3	<-30	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/Rx1310nm	40Km
Single-mode single fiber	-6~0	<-32	A side:Tx1490nm/Rx1550nm B side:Tx1550nm/Rx1490nm	60Km
Single-mode single fiber	-5~0	<-34	A side:Tx1490nm/Rx1550nm B side:Tx1550nm/Rx1490nm	80Km

## VIII、 Technical Specifications

- Standard Protocol: IEEE802.3, 10Base-T standard, IEEE 802.3u, 100Base-TX/FX standard
- Connector:one RJ-45 connector, one SC/ST/FC or SFP slot fiber connector.
- Operation mode: full duplex mode or half duplex mode.
- Power supply parameter:  
outside:5V DC 1A  
built-in:110-265V AC 48V DC
- Environmental temperature: 0°C-60°C
- 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:26\*71\*94mm  
Built-in power supply:40\*110\*140mm

## IX、 Packing list

Please check the following items in the package before installing the transceiver.

The box should contain the following items:

Media Converter	1set
AC/DC adapter	1pc
User Manual	1copy

Please contact the dealer immediately for any loss or damage to the above items.