cudy

Model

MC 220

10/100/1000Mbps Ethernet Media Converter

1.Overview

The media converter transforms the transmission media of Ethernet signal to optical fiber. It can extend the transmission distance to several kilometers or hundred kilometers. Using media converter is an economical solution to achieve long distance transmission base on current status.

1. Interface

RJ-45 interface: One 10/100/1000Base-Tx port which supports auto MDI-MDIX. The transmission media adopts CAT5e twisted-pair with typical length of 100 meter. It features the function of automatically identifying the through line and cross wire.

Fiber interface: One port SFP slot interface is used to connect to SFP module.

2. Connection

The network device (work station, hub or switch) with RJ-45 interface is connected to RJ-45 jack of optical transceiver through twisted-pair. And the multi/single mode SFP Module is connected to SFP fiber interface. The corresponding LED is on for correct connection. (See the table below for the LED indicator lamp).

Front panel
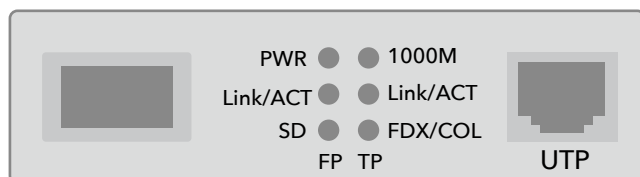
3. Explanation for LED indicator lamp. The following is the explanation for each LED indicator lamp.

LED	Function	Status	Description
PWR	Power LED	ON	Power is ON
		OFF	Power is Fail
SD	Fiber port signal detect LED	ON	Laser is receiving
		OFF	No laser input
LINK/ACT (FP)	Fiber port link/action status LED	ON	Fiber Port is Linked.
		Blink	Data is being transmitted or received.
		OFF	Fiber Port is NOT Linked.
1000M	UTP port speed LED	ON	1000Mbps speed
		OFF	100Mbps speed
LINK/ACT (TP)	UTP Port Link/Action Status LED	ON	UTP Port is Linked
		Blink	Data is being transmitted or received.
		OFF	UTP Port is NOT Linked
FDX/COL	UTP port duplex LED	ON	Full duplex
		OFF	Half duplex

2. Main features

1. In conformity to IEEE 802.3 10 Base-T standard.
   In conformity to IEEE 802.3u 100 Base-TX/FX standard.
   In conformity to IEEE 802.3z 1000 Base-TX/FX standard.
   In conformity to IEEE 802.3x Flow control standard.
2. Max. 2M buffer memory built in chip. Auto negotiation back
pressure flow control for full duplex IEEE802.3 X and half duplex.
3. Automatic identification of MDI/MDI-X cross line.
4. High-performance1.4Gbps memory bandwidth.

3. Technical parameters

1. Standard Protocol: IEEE802.3 10 Base-T standard
   IEEE 802.3u 100Base-TX/FX standard
   IEEE 802.3z 1000Base-TX/FX standard
   IEEE 802.3x Flow control standard
2. Connector: 1 UTP RJ-45 connector, 1 SFP connector
3. Operation mode: full duplex mode or half duplex mode
4. Power supply parameter:
   90-240Vac, 50/60Hz with outside switching adaptor: 5V DC
   power consumption: 4W
5. Environmental temperature: 0°C - 60 °C
6. Relative humidity: 5%-90% none-condensing
7. BER < 1E-9
8. TP cable: Cat5 UTP cable 100m
9. Transfer fiber:
   multi-mode: 50/125, 62.5/125 or 100/140µm
   single mode: 8.3/125, 8.7/125, 9/125 or 10/125µm
10. Dimensions:
    External power supply: 26mmx 70mm x 95mm