

Gigabit Media Converter



Main Feature

- 1. Support 1000Base-FX optical fiber transmission standard
- 2. Automatic identification of MDI/MDI-X crosses line
- 3. 10/100/1000Mbps, full duplex/half duplex auto negotiation
- 4. Super lightning protection function which can resist lightning strike
- 5. Built-in high-efficiency switching core with CRC parity check
- 6. Support half-duplex back pressure control and full-duplex flow control

Fiber features

Models	Fiber Connectors	Copper Ports	Fiber Transmission Distance	Fiber Type	Fiber Number	Wavelength	$\begin{array}{l} \text{Dimensions} \\ (W \times D \times H) \end{array}$	Power
MC100GMA-05	1.25 Gbps SC	1×10/100/1000 Mbps RJ45	550 m	Multi-Mode	Dual Fibers	850 nm	26 × 70 × 94 mm	5 V /1 A
MC100GSA-20			20 km	Single-Mode		1310 nm		
MC100GSA-40			40 km					
MC100GSA-60			60 km			1550 nm		
MC100GSA-80			80 km					
MC100GSA-100			100 km					
MC100GSA-20P	1.25 Gbps SC	1×10/100/1000 Mbps RJ45 PoE+ (802.3at/af)	20 km	Single-Mode	Dual Fiber	1310 nm		DC 47–57V

Installation

1. Interface

RJ-45 interface

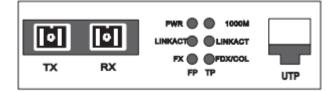
The transmission media adopts CAT5 twisted-pair with typical length of 100 meter. It features the function of automatically identifying the through line and crosswire.

Fiber interface

SC/ST fiber interface is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely"TX-RX", "RX-TX"(direct butting for single optical fiber).

2. Connection

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



Explanation for LED indicator lamp

LED indicator lamps serve as device monitoring and trouble display. The following is the explanation for each LED indicator lamp.

LED	Function	Status	Describing	
PWR	Doword ED	ON	Power is ON	
PVK	Power LED	OFF		
FX	Fiber port signal dotect LED	ON	Laser is receiving	
ГЛ	Fiber port signal detect LED	OFF	No laser	
	Fiber port link/action	ON	Fiber link is OK	
FX-LINK/ACT	Fiber port link/action status LED	Blink	Data is been received or transmitte	
	Status LED	OFF	Fiber link is fail	
100014	LITD port apond LED	ON	1000M speed	
1000M	UTP port speed LED	OFF	100M speed	
		ON	Link is OK	
TX-LINK/ACT	UTP port link/action status LED	Blink	Data is been received or transmitted	
		OFF	Link is fail	
FDX/COL	LITE port duploy LED	ON	Full duplex	
FDACOL	UTP port duplex LED	OFF	Half duplex	