

# VALUE Fast Ethernet Converter, RJ-45 to SC

## User Manual

21.99.1069

### Product Features

1. Built-in high-performance kernel, Broadcast storm control, Flow control, CRC error checking
2. 1000Base-FX fiber-optic transmission standard. Can be interconnected with other products
3. Supports IEEE802.1D function
4. Completely compatible with IEEE802.3/802.3u auto-negotiation function
5. Maximum transmission distance up to 80Km
6. Supports 9K jumbo frames.

### 1. Product Protocol

IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3AB

### 2. 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

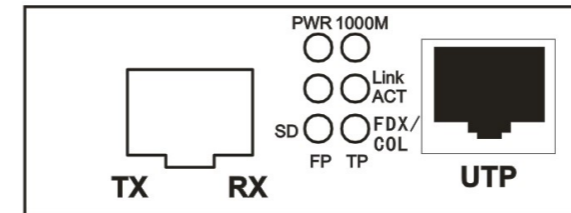


Figure 3.1 SFP slot front panel

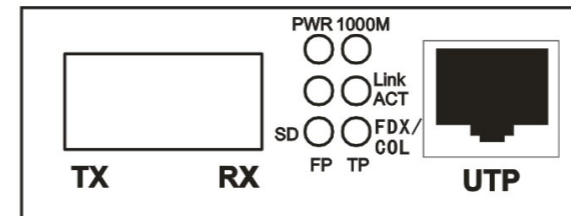


Figure 3.2 front panel

### 5. Back structure diagram



### 3. LED Indicator Status Description

LED	Function	Status	Description
PWR	Power LED	ON	Power is ON
		OFF	Power is OFF
1000M	UTP Port Speed LED	ON	1000M
		OFF	10/100M
LINK/ACT (FP)	Fiber Port Link/Action Status LED	ON	Fiber Port is Linked
		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

#### 4. Installation and Connections

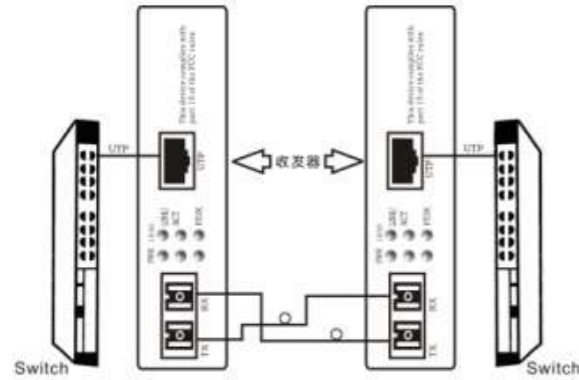


Figure 6.1 MC Connection diagram

#### 5. Fiber transmission features

Table 7.1 MC Transmission features

Fiber mode	TX dBm	Rx dBm	Wavelength	Distance
Multi-mode dual fiber	-8~-3	<-19.0	850nm	550m
Multi-mode dual fiber	-8~0	<-22.0	1310nm	1 Km
Single-mode dual fiber	-8~-1	<-22.0	1310nm	20 Km
Single-mode dual fiber	-6~0	<-24.0	1310nm	40 Km
Single-mode dual fiber	-5~0	<-24.0	1550nm	60 Km
Single-mode dual fiber	-2~5	<-24.0	1550nm	80 Km

Single-mode single fiber	-8~-1	<-22.0	A:Tx1310nm/ Rx1550nm B:Tx1550nm/ Rx1310nm	20 km
Single-mode single fiber	-6~-0	<-24.0	A:Tx1310nm/ Rx1550nm B:Tx1550nm/ Rx1310nm	40 km
Single-mode single fiber	-5~0	<-24.0	A:Tx1490nm/ Rx1550nm B:Tx1550nm/ Rx1490nm	60 km
Single-mode single fiber	-2~+5	<-24.0	A:Tx1490nm/ Rx1550nm B:Tx1550nm/ Rx1490nm	80 km

#### 6. Technical Parameters

- IEEE802.3z/AB 1000Base-T/SX/LX/ZX
- UTP Port: Twisted Pair RJ45
- Fiber Connector: SC/ST/FC or SFP slot
- Rate: Twisted Pair 10/100/1000Mbps  
Fiber 1000Mbps
- Twisted Pair: Category 5e or Category 6
- Fiber: Multimode, Single-mode
- Power Adapter: DC 5V
- Operating temperature: 0 - 60°C
- Storage temperature: -20 - 70°C
- Humidity: 5% - 90% non-condensing
- Dimension: 26\*70\*94mm

#### 7. Package Contents

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

Media Converter	1x
AC/DC adapter	1x
Power Cable (Internal Adapter)	1x
User Manual	1x