

# MM-SM SERIES CONVERTER

## User's Guide

### 1. Overview

Avoid multimode fiber's 2km maximum diving distance by using singlemode to multimode converters. It integrates multimode fiber and singlemode fiber, supporting transmitting distance up to 80km in singlemode fiber.

Singlemode to multimode media converter provide the standard repeater function.

This series device include several types:

1 ) Wavelength Switch Device : It can provide date transmission between two wavelength , such as 1310nm↔1310nm 、 1310nm↔1550nm 、 1310nm↔850nm 、 850nm↔1550nm

This kind of device also can be used as positive power enlarge device

2) Mode Switch Device: It can provide date transmission between multi mode (850nm,1310nm)and single mode (1310nm,1550nm), This kind of device also can be used as positive power enlarge device.

3)Fiber Switch Device: It can provide the date transmission between single –fiber and dual –fiber.

4)Switch deferent wavelength and two types of mode .

Our company can provide this kind of device with deferent date rate (155M、622M、1.25G),The longest distance can be 80km.

### 2. Technical specifications

Fiber A: multi - fiber port

Fiber B: single -fiber port

LED:power\*2 FIBER A、FIBER B

Standard:IEEE 802.3u 100Base-FX

IEEE802.3z 1000BaseSX/LX

Port:SC/ST/FC/LC

Power:DC 5V

Power Consumption:2.5w

Operating temperature:0°C~70°C

Operating humidity:5%~90%(no-condensation)

Demension:30mm(H)\*112mm(W)\*141mm(D)

Single mode :1300nm、1310nm、1550nm

Multi mode: 1310nm、1300nm、850nm

Transmission fiber:

Multi mode:50/125、62.5/125 or 100/140um

Single mode:8.3/125,8.7/125,9/125 or 10/125um

Transmission distance:

Multi mode:2Km

Single mode:2~80Km

### 3. Front and rear panel schematic

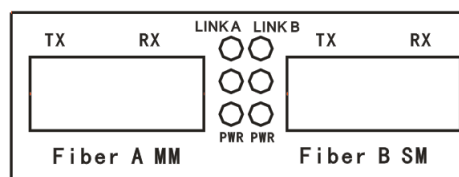


Fig 3.1 Schematic diagram of the front panel

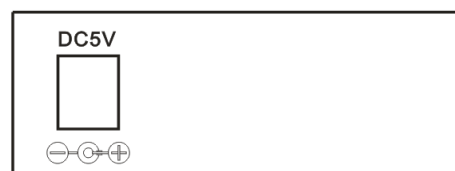


Fig 3.2 Schematic diagram of the rear panel

### 4. Connection

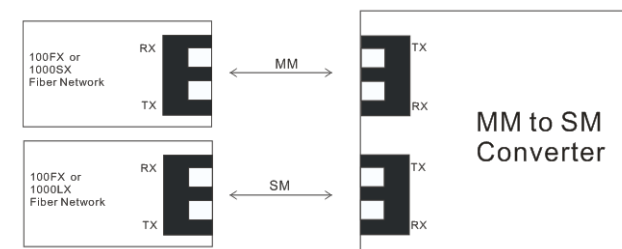


Fig 4.1 Connection diagram

### 5. LED indicator description

LED	State	Indications
POWER	ON	Power feeding in
	OFF	No power
LINK A	ON	Port A multimode fiber signal detects: a valid connection established.
	Blink	Transmission andreceiving data
	OFF	Multimode fiber link failed.
LINK B	ON	Port B single mode fiber signal detect: a valid connection established.
	Blink	Transmission andreceiving data
	OFF	Single mode fiber link failed

### 6. Packing list

The box should contain the following items:

- MM-SM Converter
- AC/DC adapter
- User's guide