

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.

Single mode to multimode media converter provide the standard repeater function.

This series device include several types:

- 1) Wavelength Switch Device: It can provide data 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 data 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 data transmission between single-fiber and dual-fiber;
- 4) Switch different wavelength and two types of mode.

Our company can provide this kind of device with different data 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 1000Base SX/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

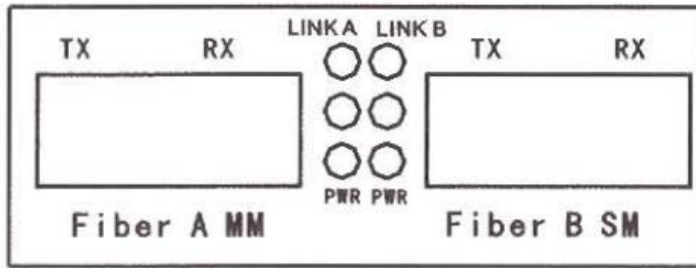


Fig 3.1 Schematic diagram of the front panel

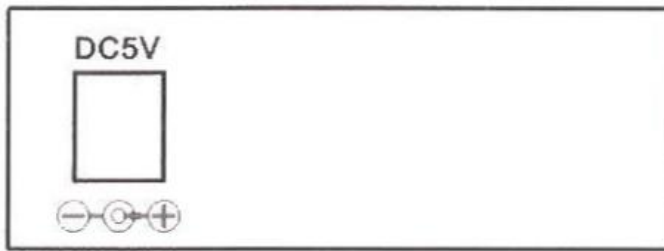


Fig 3.2 Schematic diagram of the rear panel

4. Connection

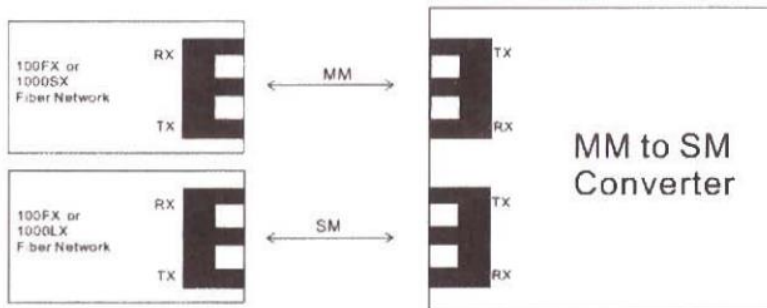


Fig 4.1 Connection diagram

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 and receiving data
	OFF	Multimode fiber link failed

LINK B	ON	Port B single mode fiber signal detects: a valid connection established.
	Blink	Transmission and receiving data
	OFF	Multimode fiber link failed

6. Packing list

The box should contain the following items:

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