

MC-MM-1000MB-SC

Adaptive 10Mb/100Mb/1000Mb Copper to 1G Fiber Media Converter with Duplex SC Fibre Connector. For Multimode Fibre, 850NM, 550M Reach.

The PlusOptic MC-MM-1000MB-SC is a 10/100/100 SFP Media Converter that seamlessly connects Multimode fibre to copper. This device offers a flexible fibre to copper solution with a reach of up to 550M over multimode fibre.

The PlusOptic MC-MM-1000MB-SC is ideal for:

- Seamlessly Connecting 10/100/1000Base-T to 100/1000Base-X
- Seamlessly Connecting 10/100 devices to Gigabit Infrastructure
- Extending the reach of your network in a cost effective manner
- Extending the life and increasing the relevance for dated non fibre equipment.




MC-SFP-RJ45-MR Main Features

- **Automatic Speed Adjustment:** This media converter will automatically sense whether a Gigabit Ethernet or Fast Ethernet SFP is being utilised and automatically adjust.
- **Auto Negotiation:** This media converter automatically negotiates rate and full/half duplex at the twisted pair port.
- **MDI/MDIX:** Auto MDI/MDIX supported without the need for cable selection and automatically configures the connection.
- **Conflicting Frames Detection:** Supports half-duplex and flow control in full duplex.
- **Stand Alone or Rack Mounted:** Up to 14 modules in a 1RU Chassis
- **Dual Power:** Includes External and built in DC Power Supplies.

Other Features

- Optional Fibre Port: SC, LC ST or FC
- In accordance with IEEE802.3 10Base-T, IEEE802.3u 100Base-T,
- IEEE802.3ab 1000Base-T and IEEE802.3z 1000Base-FX
- Up to 6 LEDs for status indication of optical power port and UTP port
- Up to 1024 MAC addresses supported
- 512 kb data storage integrated, and 802.1X original MAC address authentication supported
- Conflicting frames detection in half-duplex and flow control in full duplex supported

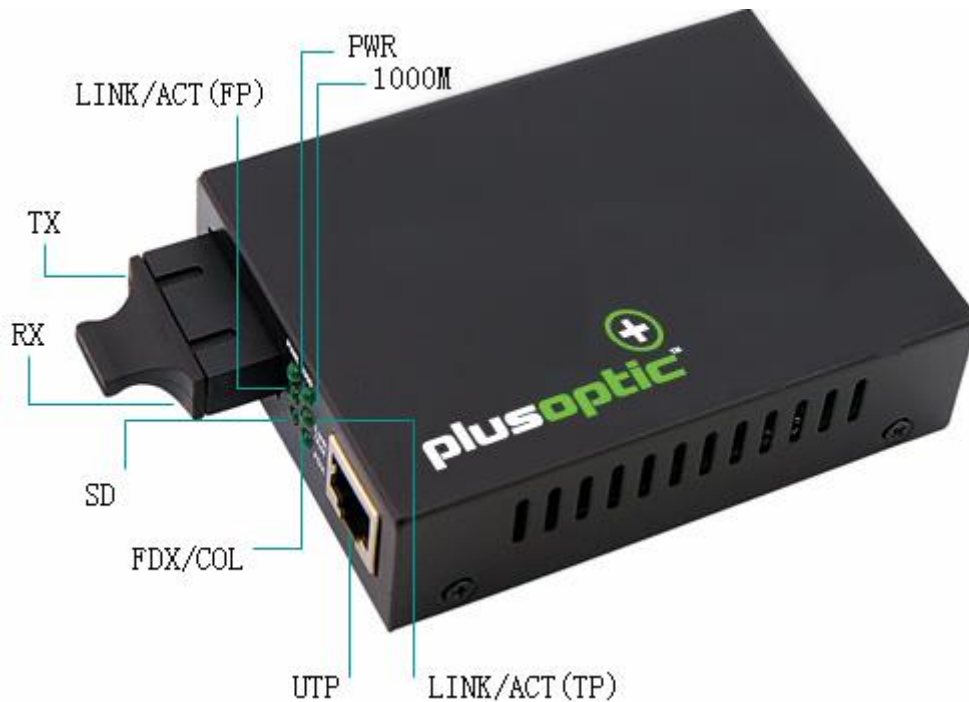
Specifications

Number of Network Ports	1 channel	
Number of Optical Ports	1 channel	
NIC Transmission Rate	10/100/1000Mbit/s	
NIC Transmission Mode	10/100/1000M adaptive with support for automatic inversion of MDI/MDIX	
Optical Transmission Rate	1000Mbit/s	
Operating Voltage	AC 220V or DC +5V	
Overall Power	<3W	
Network Ports	RJ45 port	
Optical Port Options	SC, LC, ST, FC	
Fibre Type	Multi-Mode: 50/125, 62.5/125um	
Data Channel	IEEE802.3x and collision base backpressure supported Working Mode: Full/half duplex supported Transmission Rate: 1000Mbit/s with an error rate of zero	
Operating Temperature	0°C to +70°C	
Storage Temperature	-20°C to +85°C	
Humidity	5% to 90%	
MTBF	> 100,000 hours	

LED Indicators

Instructions on Front Panel

Identification for front panel of the media converter is shown below:



a. Identification of Media Converter

TX - transmitting terminal; RX - receiving terminal;

b. PWR

Power Indicator Light – “ON” means normal operation of DC 5V power supply adaptor.

c. 1000M Indicator Light

“ON” means the rate of the electric port is 1000 Mbps, while “OFF” means the rate is 100 Mbps.

d. LINK/ACT (FP)

“ON” means connectivity of the optical channel; “FLASH” means data transfer in the channel; “OFF” means non-connectivity of the optical channel.

e. LINK/ACT (TP)

“ON” means connectivity of the electric circuit; “FLASH” means data transfer in the circuit; “OFF” means non-connectivity of the electric circuit.

f. SD Indicator Light

“ON” means input of optical signal; “OFF” means non input.

g. FDX/COL:

“ON” means full duplex electric port; “OFF” means half-duplex electric port.

h. UTP

Non-shielded twisted pair port;

Instructions on Rear Panel

There is only a DC 5V external power port on the rear panel:

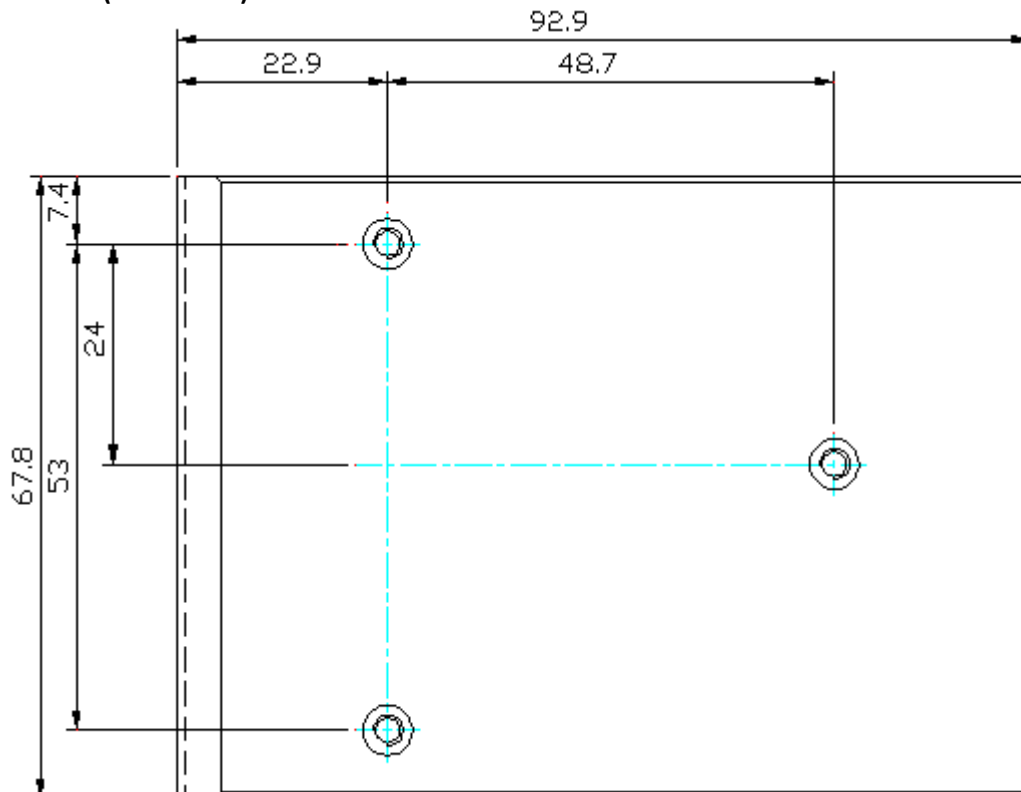


Ethernet port (NODE / HUB)

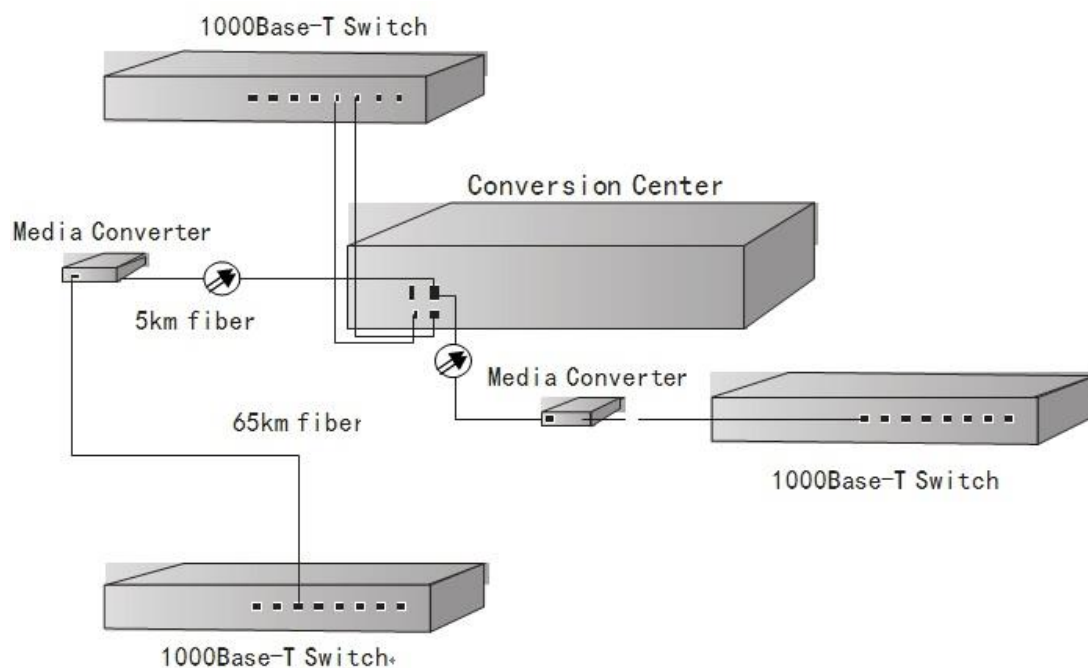
Supports auto MDI/MDIX crossover, the pin definition of RJ-45:

PIN	Signal define	Direction
Pin1	BI_DA+	Output +
Pin2	BI_DA-	Output -
Pin3	BI_DB+	Input +
Pin4	BI_DC+	Output +
Pin5	BI_DC-	Output -
Pin6	BI_DB-	Input -
Pin7	BI_DD+	Input +
Pin8	BI_DD-	Input -

Dimensions (standalone)



Application Example



Further Information

If you require any advice or further information, please do not hesitate to contact us on the details below:

Tel: +61 2 8324 1413

Email: info@plusoptic.com

Web: www.plusoptic.com