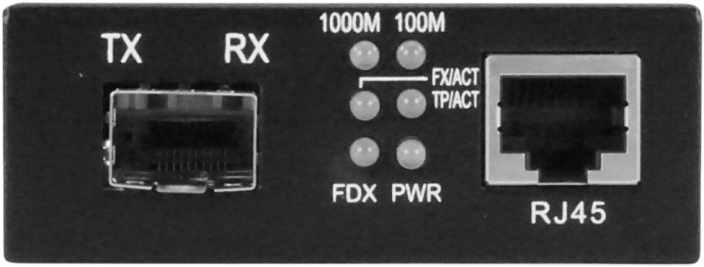
# TL-MC-1S1R

1G Ethernet Media Converter with 1 SFP Slot & 1 RJ45 Port


The TL-MC-1S1R features one SFP port (SFP module sold separately) and one RJ45 twisted pair port, effectively adapting twisted pair-based devices to fiber for longer transmission distances. The TL-MC-1S1R supports multimode fiber when paired with a multimode SFP module and single mode fiber when paired with a single mode SFP module.

The compact size of the TL-MC-1S1R allows it to be easily deployed in any narrow desktop location or to be used in a wall-mount installation. Several converters can be simultaneously installed into a 19" rack-mountable, 14-slot converter chassis (*TL-RKMC-14*).

## Connections



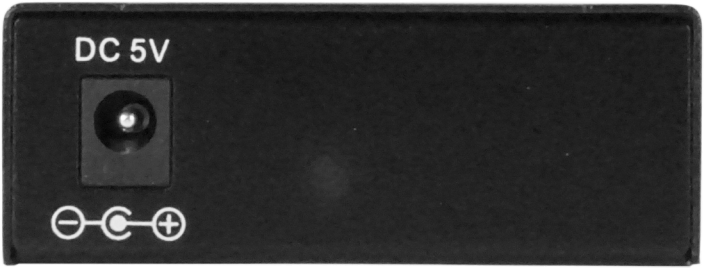

### SFP Slot - Fiber Optic

This product requires an SFP transceiver module that provides fiber optic connections. Maximum length and fiber cable specification depend on the model of SFP transceiver.

1. Insert the transceiver into the media converter and route the fiber optic cable into the transceiver.
2. Route the other end of the fiber optic cable into a suitable port in your fiber optic network.

### RJ45 - Twisted Pair

Connect the RJ45 port of the media converter to an RJ45 port on the network such as an Ethernet switch. Cat5e or better cabling is recommended.



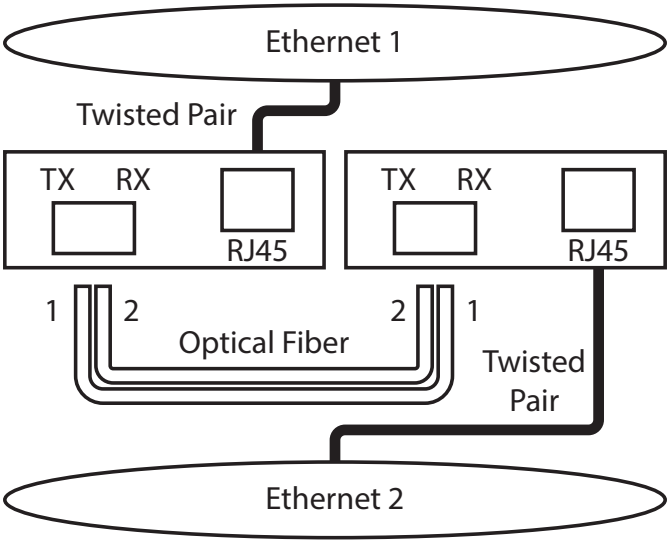

## Power

Plug the power adapter into the 5 V DC input jack on the media converter, then connect it to a regular power outlet. Only use the included power adapter or one with matching specifications (output of 5 V DC, at least 1 A).

## LEDs

*1000M* – 1000 Mbps link on the twisted pair connection when lit.
*100M* – 100 Mbps link on the twisted pair connection when lit.
*FX/ACT* – Fiber optic signal is detected when lit; no signal when unlit.
*TP/ACT* – Active twisted pair link when lit; data traffic when flashing; no active network link when unlit.
*FDX* (for TP/RJ45) – Full duplex connection when lit; data collisions when flashing; half duplex when unlit.
*PWR* – The power adapter is connected when lit.

## Fiber Optic Pairing




As shown above, two fiber optic cables need to be connected between two ideally identical media converters. Make a connection from Media Converter 1 TX to Media Converter 2 RX, and from Media Converter 1 RX to Media Converter 2 TX.