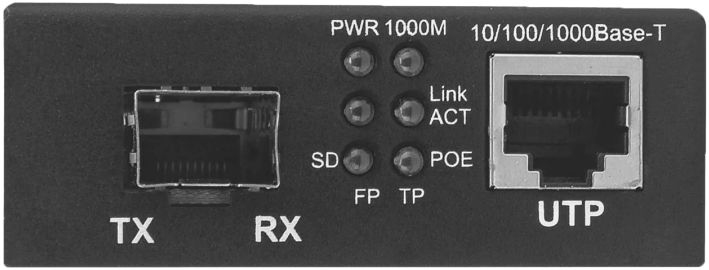
TL-MC-1S1RPP

1G Ethernet Media Converter with 1 SFP Slot & 1 RJ45 Port
- 30W PoE+

The TL-MC-1S1RPP features one SFP port (SFP module sold separately) and one RJ45 twisted pair PoE+ port, effectively adapting PoE and PoE+ twisted pair-based devices to fiber for longer transmission distances. The TL-MC-1S1RPP supports multimode fiber when paired with a multimode SFP module and single mode when paired with a single mode SFP module.

The compact size of the TL-MC-1S1RPP allows it to be easily deployed in any narrow desktop location or to be used in a wall-mount installation.

Connections



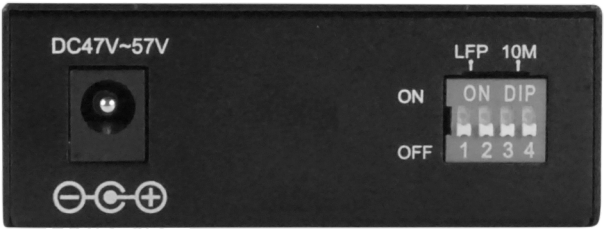
SFP Slot - Fiber Optic

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 IEEE 802.3at and IEEE 802.3af-compliant PoE devices (up to 30 watts), such as wireless access points, VoIP phones, IP cameras, etc. Cat5e or better cabling is recommended.



Power

Plug the power adapter into the 47V~57V DC input jack on the media converter, then connect it to a regular power outlet. Only use the included power adapter.

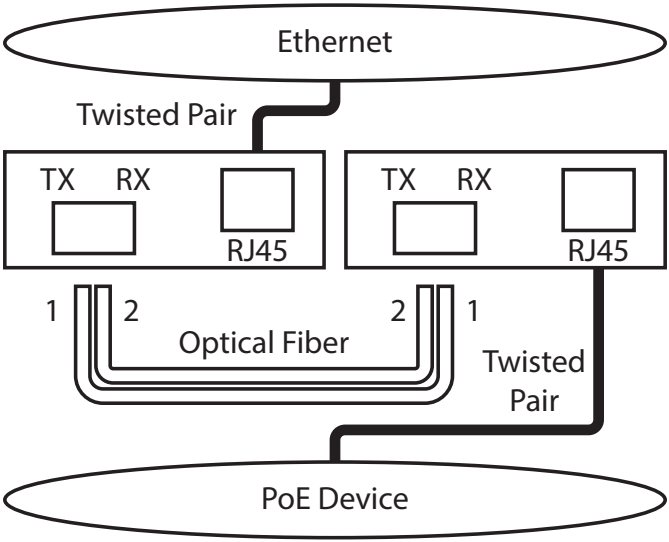
DIP Switches

DIP 1 – Flip to the ON (up) postion to enable Link Fault Pass-through (LFP) which forces the devices on a link to acknowledge that they are online before data can be transmitted. When one of the devices doesn't respond, data cannot be sent.
DIP 3 – Flip to the ON (up) postion to enable the 10M Bandwidth Limiter, which also allows the PoE signal to reach 250m (820 ft).

LEDs

PWR – Powered on when lit.
1000M – 1000 Mbps link on the twisted pair connection when lit; less than 1000 Mbps link when unlit.
FP Link/ACT – Fiber optic signal is detected when lit; data traffic when flashing; no signal when unlit.
TP Link/Act – Active twisted pair link when lit; data traffic when flashing; no active network link when unlit.
PoE – PoE is supplied when lit; no power is supplied when unlit.
SD – Valid optical signal 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.