# TechLogix Networx

TL-MC-2SC1R-MM

1G Ethernet Media Converter with Duplex SC & 1 RJ45 Port - Multimode

The TL-MC-2SC1R-MM features one duplex SC port (1000Base-SX) and one RJ45 twisted pair port, effectively adapting twisted pair-based devices to fiber for longer transmission distances. The TL-MC2SC1R-MM supports multimode fiber.

Two TL-MC-2SC1R-MM media converters are required for most applications -- one for each end of the cable run. The compact size of the TL-MC-2SC1R-MM 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
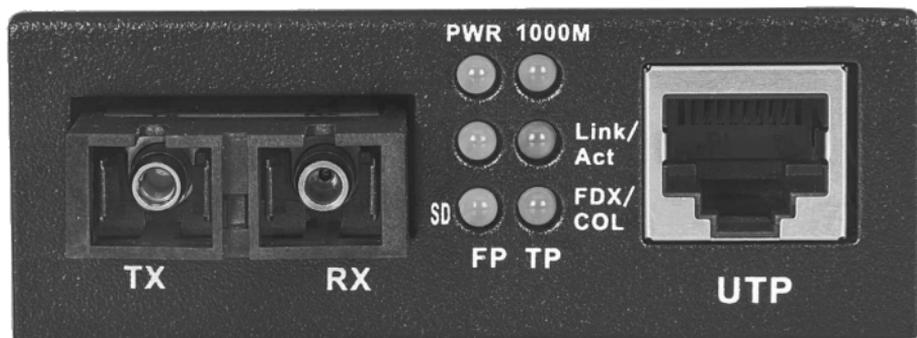
Fiber Optic

Two fiber optic cables need to be connected between two ideally identical media converters. The TL-MC-2SC1R-MM only supports multimode fiber and has a maximum distance of 550m (1800 ft).

RJ45 - Twisted Pair

Connect the RJ45 ports 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).

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 2 – Flip to the ON (up) postion to enable cut-through switching. In the OFF position, store-and-forward switching is enabled.

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.
SD – Valid optical signal when lit.

Fiber Optic Pairing

Ethernet 1

Twisted Pair

TX RX

RJ45

TX RX

RJ45

1   2   Multimode Fiber   2   1

Twisted
Pair

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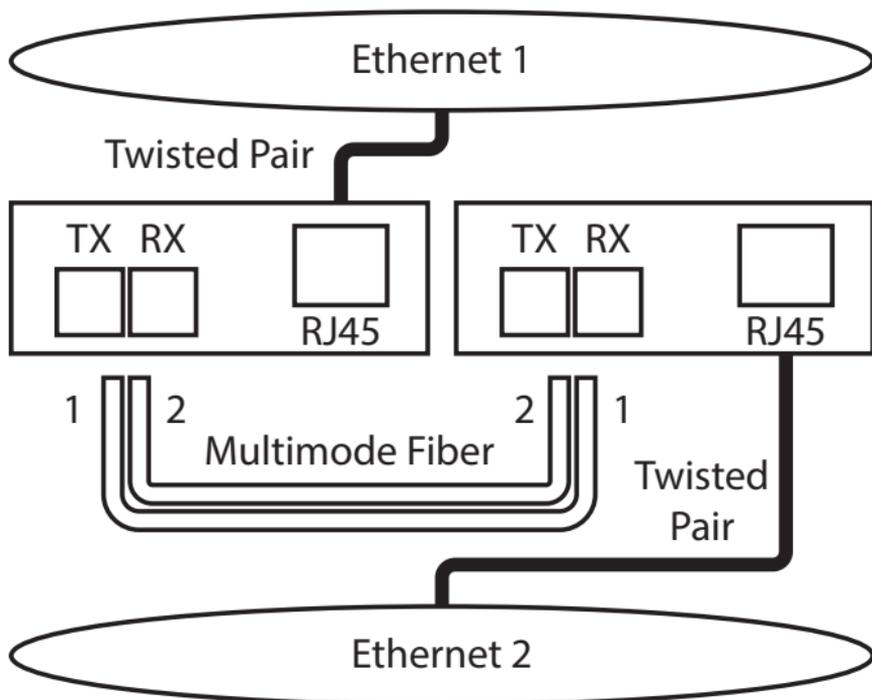
As shown above, two fiber optic cables need to be connected between two ideally
identical media converters. Make a connection from Media Converter 1 TX to Media
Converter 2 RX, and from Media Converter 1 RX to Media Converter 2 TX.