tp-link

Enlarge Your Ethernet Network

Fast Ethernet Media Converter

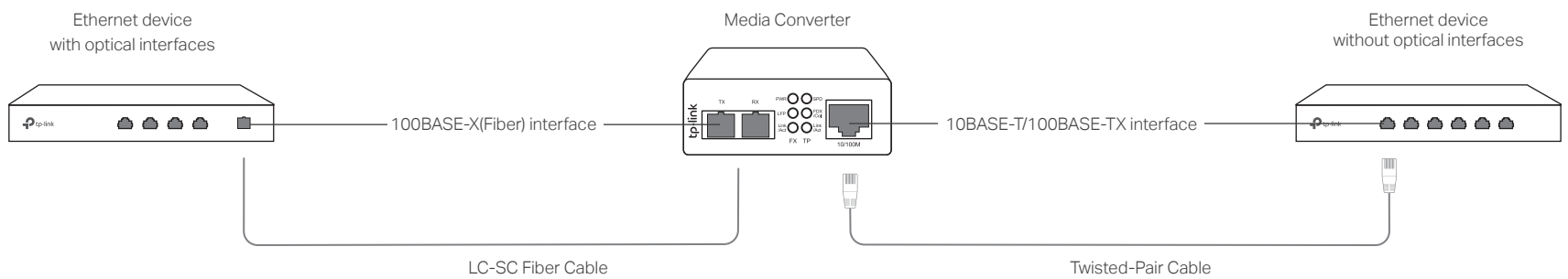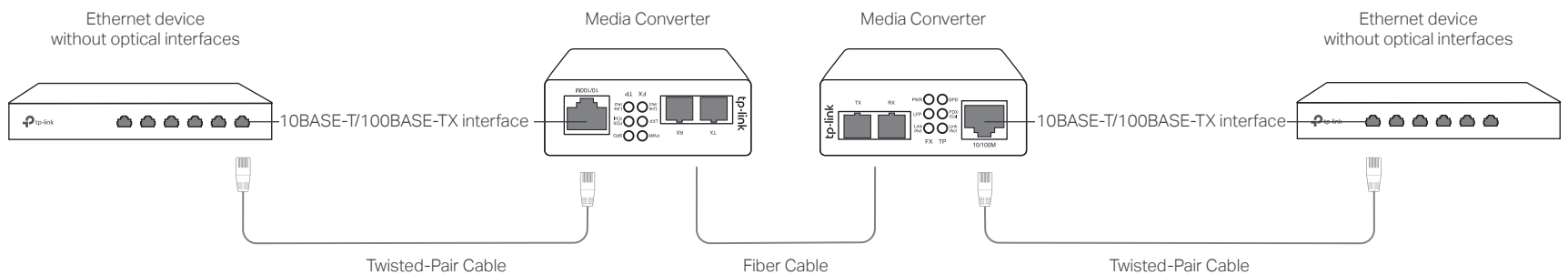MC100CM/MC110CS

Package Contents: Converter, Power Adapter, User Guide, Purchasing Guide

Scenario 1: Connect Devices with and without Optical Interfaces

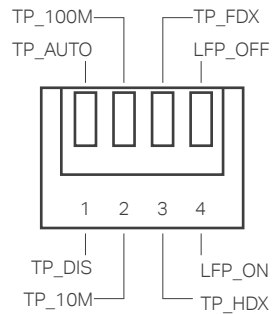Ethernet device
with optical interfaces

Media Converter

Ethernet device
without optical interfaces

—100BASE-X(Fiber) interface—

—10BASE-T/100BASE-TX interface—

LC-SC Fiber Cable

Twisted-Pair Cable

Scenario 2: Connect Devices without Optical Interfaces

Ethernet device
without optical interfaces

Media Converter

Media Converter

Ethernet device
without optical interfaces

—10BASE-T/100BASE-TX interface—

—10BASE-T/100BASE-TX interface—

Twisted-Pair Cable

Fiber Cable

Twisted-Pair Cable

Note:
1. Please use two Media Converters of the same model to work properly.
2. Please connect the TX port of one converter to the RX port of the other using a fiber cable.
3. With the LFP (Link Fault Pass Through) function enabled, when one side of the link fails, the media converter will disconnect the transmit link of the other side, thus minimizing the loss caused by link failure.

DIP Switches

TP_100M
TP_AUTO
TP_FDX
LFP_OFF

1   2   3   4

TP_DIS
TP_10M
LFP_ON
TP_HDX

TP_AUTO/TP_DIS: Set the TP port speed to Auto-Negotiation/FORCE.
TP_100M/TP_10M: Set the TP port's speed.
LFP_ON/LFP_OFF: Enable or disable the LFP function.
TP_FDX/TP_HDX: Set the duplex mode for the TP port as Full-Duplex/Half-Duplex.

You can set the speed and duplex via different switch combinations as shown below.

Switch Combination	Speed and Duplex
TP_AUTO, TP_100M, TP_FDX	TP: AUTO
TP_DIS, TP_100M, TP_FDX	TP: FORCE,100M, FULL-Duplex
(TP_DIS or TP_AUTO), TP_100M, TP_HDX	TP: FORCE,100M, HALF-Duplex
TP_DIS, TP_10M, TP_FDX	TP: FORCE,10M, FULL-Duplex
(TP_DIS or TP_AUTO), TP_10M, TP_HDX	TP: FORCE,10M, HALF-Duplex

Note:
1. It is recommended to leave the switches on TP_AUTO, TP_100M, TP_FDX and LFP_On to accommodate most situations.
2. Please reboot the converter after configuring the switches.

LED Explanation

○ **PWR**

On: Power on
Off: Power off

○ **LFP**

On: LFP function enabled
Off: LFP function disabled

○ **Link/Act**

FX

On: Valid link
Flashing: Transmitting or receiving data
Off: Invalid link

○ **SPD**

On: Running at 100Mbps
Off: Running at 10Mbps or no connection

○ **FDX/Col**

On: Operating in Half-Duplex mode
Off: Operating in Full-Duplex mode
Flashing: Data collision

○ **Link/Act**

TP

On: Valid link
Flashing: Transmitting or receiving data
Off: Invalid link

Specifications

General Specifications

Standards	IEEE 802.3, IEEE802.3u, IEEE802.3x
LED	PWR, SPD, LFP, FDX, Link/Act
Connector	1 SC fiber optic; 1 RJ45 jack
Twisted-Pair	10BASE-T: 2-pair UTP/STP of Cat. 3 or above (≤100m) 100BASE-Tx: 2-pair UTP/STP of Cat. 5 or above (≤100m)
Fiber	For MC100CM: 62.5/125µm multi-mode (≤2km) 50/125µm multi-mode (≤2km) For MC110CS: 9/125µm single-mode fiber (≤20km)
Wave Length	1310nm
Power	External Power Adapter: 9V/0.6A

Environmental and Physical Specifications

Operation Temperature	0˚C to 40˚C (32˚F to 104˚F)
Storage Temperature	-40˚C to 70˚C (-40˚F to 158˚F)
Operation Humidity	10% to 90% RH non-condensing
Storage Humidity	5% to 90% RH non-condensing

For technical support and other information, please visit
http://www.tp-link.com/support, or simply scan the QR code.