

Enlarge Your Ethernet Network

Gigabit Ethernet Media Converter

TL-MC101/TL-MC102/TL-MC200



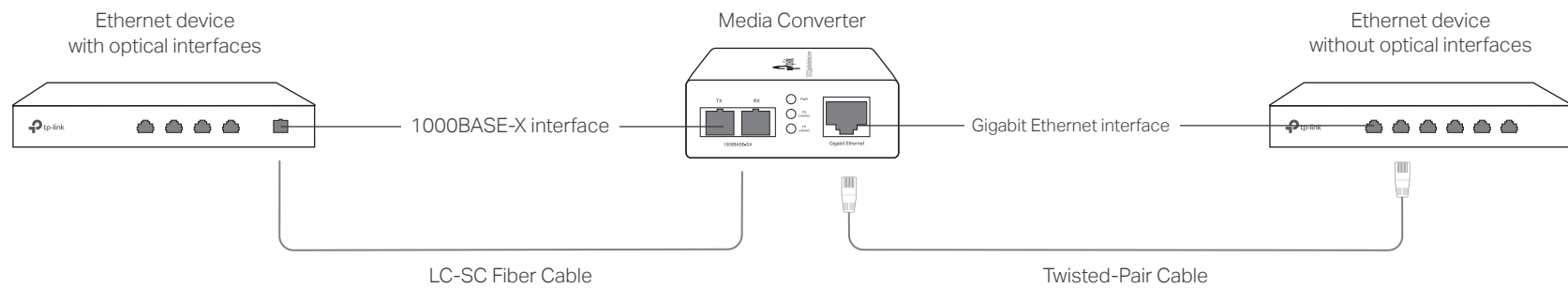
For technical support and other information, please visit <https://www.tp-link.com/support/?type=smb>, or simply scan the QR code.

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Package Contents: Media Converter, Power Adapter, User Guide

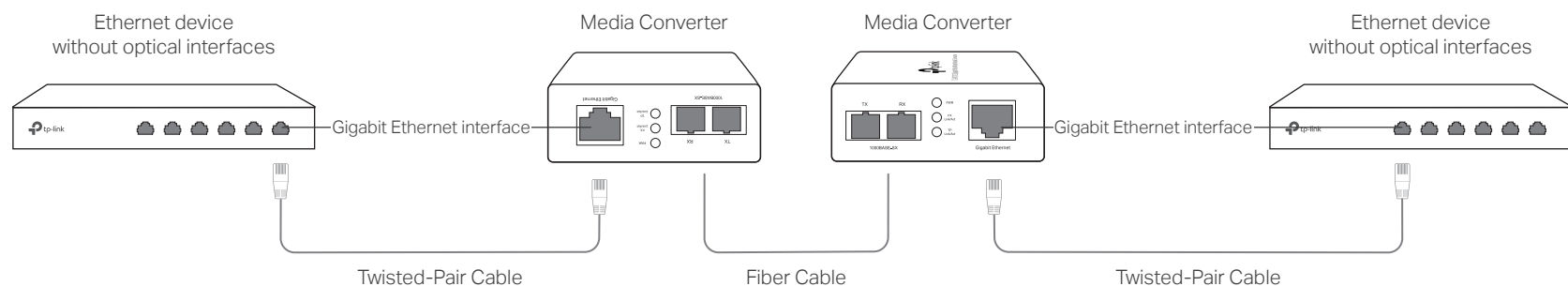
Note: TL-MC102 is used as an example throughout this guide. Other models may differ in appearance.

Scenario 1: Connect Devices with and without Optical Interfaces



Note: It is recommended to use a TP-Link SFP module on TL-MC200, because other vendors' modules may be incompatible.




Scenario 2: Connect Devices without Optical Interfaces



Note:

1. Either two TL-MC101 converters or two TL-MC102 converters can work cooperatively. Two TL-MC200 converters with a pair of SFP module can work cooperatively.
2. One TL-MC200 can also cooperate with one TL-MC101 or one TL-MC102. However, the mode and wavelength of the SFP module used in TL-MC200 must be the same as the opposite end.
3. Connect the TX port of one converter to the RX port of the other using a fiber cable.

LED Explanation

| | | |
|---|---|---|
| <p> PWR</p> <p>On: Power on. Off: Power off.</p> | <p> Link/Act</p> <p>On: There is a valid link for FX Port. Off: There is no valid link for FX Port. Flashing: FX Port is transmitting or receiving data.</p> | <p> Link/Act</p> <p>On: There is a valid link for TP Port. Off: There is no valid link for TP Port. Flashing: TP Port is transmitting or receiving data.</p> |
|---|---|---|

Specifications

General Specifications

| | |
|--------------|--|
| Standards | IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z |
| LED | PWR, FX Link/Act, TP Link/Act |
| Interface | For TL-MC101/TL-MC102: SC fiber connector, RJ-45 jack For TL-MC200: SFP port, RJ-45 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) 1000Base-T: 4-pair UTP/STP of Cat. 5e or above (≤100m) |
| Fiber | For TL-MC101: 9/125μm single-mode fiber (≤20km) For TL-MC102: 62.5/125μm multi-mode fiber (≤220m); 50/125μm multi-mode fiber (≤550m) For TL-MC200: depends on the used SFP module |
| Wave Length | For TL-MC101: 1310nm For TL-MC102: 850nm For TL-MC200: depends on the used SFP module |
| Power | External Power Adapter: 9V/0.6A |

Environmental and Physical Specifications

| | |
|-----------------------|------------------------------------|
| Operation Temperature | 0 °C to 50 °C (32 °F to 122 °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 |

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not point or stare directly into the beam or into the optical port of the transceiver when it is operating, as this can injure your eyesight.
- Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

FCC STATEMENT

Product Name: Gigabit Ethernet Media Converter
Model Number: TL-MC101/TL-MC102/TL-MC200

| Component Name | Model |
|----------------|-------------|
| Power Adapter | T090060-2B1 |

Responsible party:
TP-Link USA Corporation
Address: 10 Mauchly, Irvine, CA 92618
Website: <https://www.tp-link.com/us/>
Tel: +1 626 333 0234
Fax: +1 909 527 6804
E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product Name: Power Adapter
Model Number: T090060-2B1
Responsible party:
TP-Link USA Corporation
Address: 10 Mauchly, Irvine, CA 92618
Website: <https://www.tp-link.com/us/>
Tel: +1 626 333 0234
Fax: +1 909 527 6804
E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

We, TP-Link USA Corporation, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2024.06.05

Industry Canada Statement

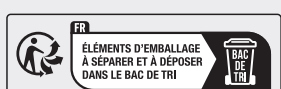
CAN ICES-3 (A)/NMB-3(A)



This is a class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.


























Продукт сертифіковано згідно з правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.



Explanation of the symbols on the product label

Symbols may vary from products. The label is at the bottom of the product.

| Symbol | Explanation |
|---|---|
|  | Class II equipment |
|  | Class II equipment with functional earthing |
|  | Alternating current |
|  | Direct current |
|  | Polarity of d.c. power connector |
|  | For indoor use only |
|  | Dangerous voltage |
|  | Caution, risk of electric shock |
|  | Energy efficiency Marking |
|  | Protective earth |
|  | Earth |
|  | Frame or chassis |
|  | Functional earthing |
|  | Caution, hot surface |
|  | Caution |
|  | Operator's manual |
|  | Stand-by |
|  | "ON"/"OFF" (push-push) |
|  | Fuse |
|  | Fuse is used in neutral N |
|  | RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment. |
|  | Caution, avoid listening at high volume levels for long periods |
|  | Disconnection, all power plugs |
| m | Switch of mini-gap construction |
| μ | Switch of micro-gap construction (for US version) Switch of micro-gap /micro-disconnection construction (for other versions except US) |
| ε | Switch without contact gap (Semiconductor switching device) |