

## Gigabit Ethernet Media Converter: TP-LINK MC220L SFP

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Code: **L1311**

The TP-LINK MC220L media converter, after installing an SFP/MiniGBIC module, converts electrical signals (Ethernet data signal) coming via typical STP/UTP cable into modulated light signal transmitted via optical fiber.

This TP-LINK media converter has to cooperate with an SFP/MiniGBIC module.



Front view



Rear view



View of the included AC/DC adapter  
Distinguishing features:

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- 1 x 1000 Mb/s Ethernet port (RJ-45)
- SFP slot (IEEE 802.3z 1000Base-FX)
- LEDs indicating operation status
- easy installation (plug and play)
- external AC/DC adapter included

The media converter has SFP slot allowing for cooperation with multimode or single-mode optical fibers, depending on the module chosen. All optical transmission parameters depend on the SFP module. TP-LINK MC220L can cooperate with SFP modules compliant with IEEE 802.3z 1000Base-FX standard.

The device supports MDI/MDIX auto detection and automatically finds and sets the fastest connection speed and mode. "Store and forward" mechanism verifies the received data using checksum function.

TP-LINK MC220L is fully compatible with 1000BaseTX/FX standard. Its installation is very simple thanks to "Plug and Play" feature. The LED indicators show current operating status.

Media converters with interchangeable SFP modules can operate in multimode and single-mode networks (transmission via two optical fibers or via single fiber, with the use of modules based on WDM or CWDM technology). The solution is especially cost effective in the case of plans for future expansion of the network (it is sufficient to exchange only the SFP modules).

### Specifications:

|                        |   |
|------------------------|---|
| Name:                  | TP-LINK MC220L                          |
| Code:                  | L1311                                   |
| Standards:             | IEEE 802.3, IEEE 802.3u, IEEE 802.3z    |
| LAN port:              | 1000Base - TX                           |
|                        | RJ-45 UTP/STP, cat. 3, 4, 5, max. 100 m |
| Optical interface:     | SFP (IEEE 802.3z 1000Base-FX)           |
| Transmission speed:    | Depends on SFP module                   |
| Power:                 | 5VDC/1A (AC/DC adapter incl.)           |
| Operating temperature: | 0... 40 °C                              |

**NOTICE!!** It is not allowed to look directly at the fiber port when the device is plugged. The radiation invisible for the human eye can damage the retina!

TP-LINK MC220L is compliant with IEEE 802.3z 1000Base-FX standard, so it can cooperate with GbE SFP modules. We offer several GbE SFP transceivers:

| Name:                  | SFP-023G  | SFP-2-3G    | SFP-203/5G | SFP-205/3G |
|------------------------|-----------|-------------|------------|------------|
| Code:                  | L1405     | L1415       | L1416      | L1417      |
| Type of optical fiber: | multimode | single-mode |            |            |
| Transmission range:    | 2 km      | 20 km       |            |            |
| Transmission speed:    | 1.25 Gb/s | 1.25 Gb/s   |            |            |
| Wavelength (Tx/Rx):    | 1310/1310 |             | 1310/1550  | 1550/1310  |
| Connectors:            | 2x LC     | 2x LC       | 1x SC      | 1x SC      |

Why to choose fiber optics:

- possibility of sending signal over long distances (low attenuation of optical fibers - e.g. for the wavelength of 1550 nm the attenuation is about 0.2 dB per kilometer, which means that the signal can

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be sent at a distance of 200 km - without regeneration)

- high-volume information transfer via single fiber
- resistance to electromagnetic interference
- resistance to weather conditions (humidity, electrostatic discharges and others)
- no possibility of tapping
- low weight and small dimensions