

Simple and Reliable Way to Overcome the Distance Limitations

Media Converters and SFP/SFP+ Modules

Surveillance | Enterprise | Factory | Park |
WISP | Machine Room | and More



Simple and Reliable Way to Overcome the Distance Limitations

TP-Link offers 100 Mbps and 1000 Mbps media converters to realize reliable network connections, making the long-distance network deployments of surveillance cameras in businesses, factories, and parks simpler.

Flexible Selections of Distance and Speed

A wide range of media converters are available, offering different maximum transmission distances of between 2 km to 20 km. Different speeds provide flexible deployment options.

Cost Effective Solution with WDM*

WDM (Wave Division Multiplexing) technology enables you to transmit and receive data over one single fiber strand instead of two.

Stable Network Transmission

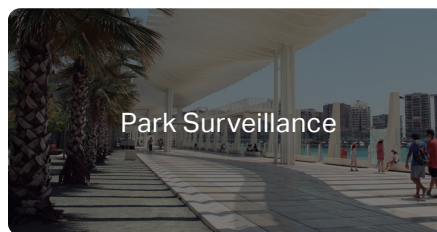
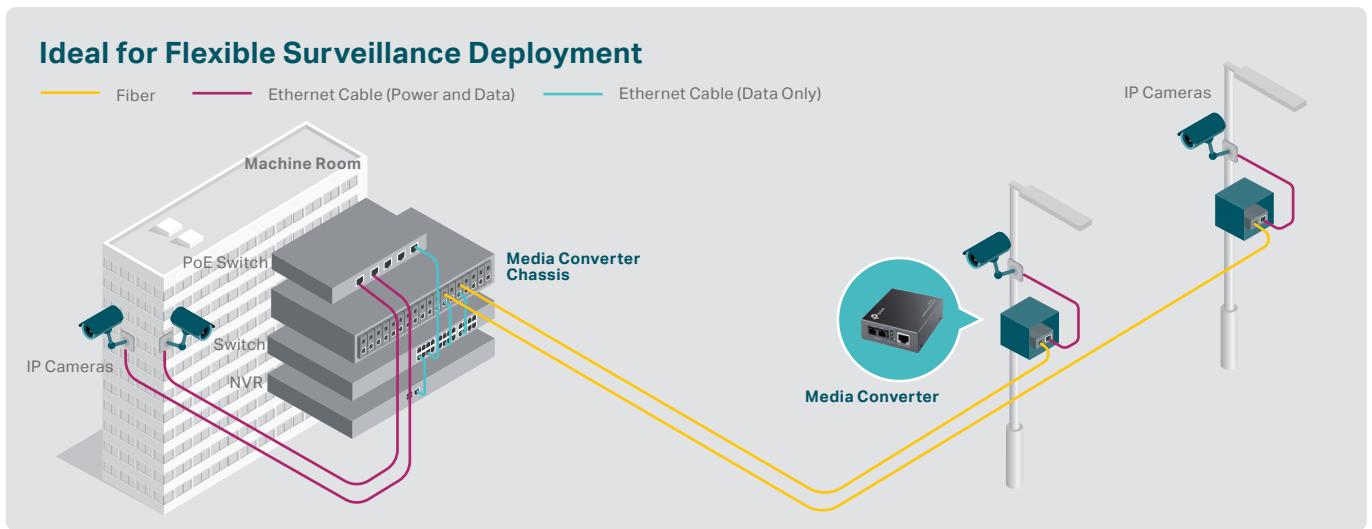
The stability of fiber transmission guarantees our stable monitoring of sensitive areas and point-to-point connections.

Innovative Combination of PoE and Fiber**

The PoE output port of media converter provides a direct data and power connection to the IP camera, making remote camera deployment easier and more convenient.

100 Mbps Media Converters Benefit Flexible Surveillance

TP-Link Fast Ethernet Media Converters are designed to address the needs of flexible long-range surveillance deployment with optical fibers. It provides an economical path towards extending the distance of an existing network.



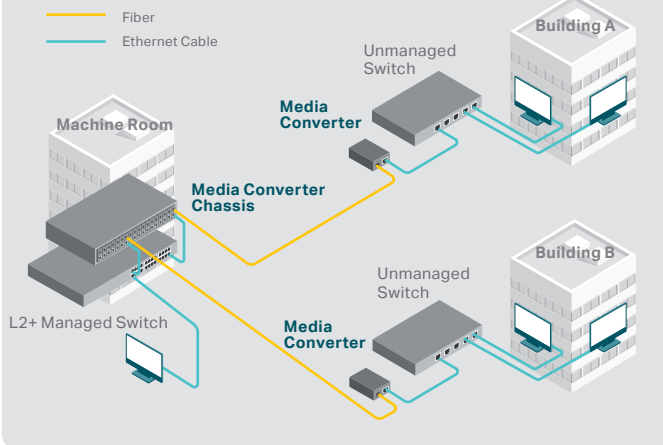
TP-Link 100 Mbps Media Converters at a Glance

| Product Picture | | | | | | | |
|-------------------------------|--|---------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| Model | MC100CM | MC110CS | MC111CS | MC112CS | TL-FC111A-20 | TL-FC111B-20 | TL-FC111PB-20 |
| Power Input | 9V/0.6A | | | | 5V/0.6A | | 48V/0.5A |
| Fiber Ports | 2 × 100 Mbps SC Fiber Ports | | 1 × 100 Mbps SC Fiber Port | | 1 × 100 Mbps SC Fiber Port | | |
| Copper Ports | 1 × 10/100 Mbps RJ45 Port | | | | 1 × 10/100 Mbps RJ45 Port | | 1 × 10/100 Mbps RJ45 PoE Port |
| Transmission Distance | 2 km | | 20 km | | 20 km | | |
| Fiber Type | Multi-Mode | | Single-Mode | | Single-Mode | | |
| Fiber Number | Dual Fibers | | Single Fiber | | Single Fiber | | |
| Wave Length | 1310 nm | | TX: 1550 nm RX: 1310 nm | TX: 1310 nm RX: 1550 nm | TX: 1550 nm RX: 1310 nm | TX: 1310 nm RX: 1550 nm | TX: 1310 nm RX: 1550 nm |
| Dimensions (W × D × H) | 3.7×2.9×1.1 in (94.5×73.0×27.0 mm) | | | | | | |
| Operating Temperature | 0–40 °C (32–104 °F) | | | | 0–50 °C (32–122 °F) | | |
| Environment | Storage Temperature: -40–70 °C (-40–158 °F) Operating Humidity: 10–90% RH Non-Condensing; Storage Humidity: 5–90% RH Non-Condensing | | | | | | |

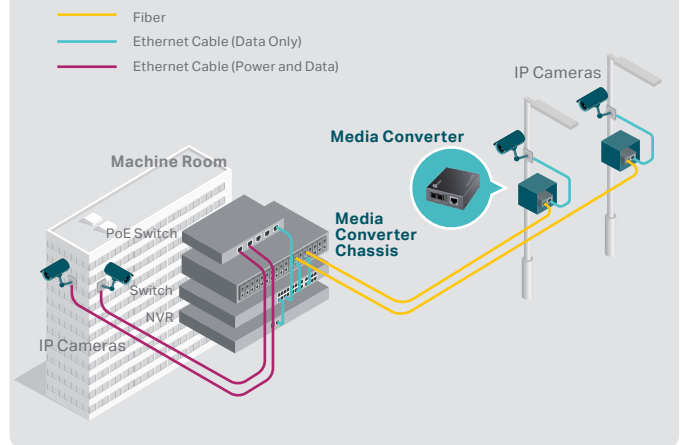
Gigabit Media Converters—Long-Range Connections with Fiber

TP-Link Gigabit Media Converters easily extend the distance of an existing gigabit network. Long-range point-to-point connections are easily built with the gigabit fiber converters, making them ideal for connecting the network in another building, remote surveillance system, and automated factory equipment.

Fiber Connections between Enterprises



Fiber Connections for Surveillance System



TP-Link Gigabit Media Converters at a Glance

| Product Picture | | | | | | | |
|-------------------------------|--|-------------|--------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|
| Model | MC200CM | MC210CS | MC220L | TL-FC311A-2 | TL-FC311B-2 | TL-FC311A-20 | TL-FC311B-20 |
| Power Input | 9V/0.6A | | | 5V/0.6A | | | |
| Fiber Ports | 2 × 100/1000 Mbps SC Fiber Ports | | 1 × Gigabit SFP Port | 1 × 100/1000 Mbps SC Fiber Port | | | |
| Copper Ports | 1 × 10/100/1000 Mbps RJ45 Port | | | 1 × 10/100/1000 Mbps RJ45 Port | | | |
| Transmission Distance | 550 m | 20 km | Depends on the used SFP module | 2 km | | 20 km | |
| Fiber Type | Multi-Mode | Single-Mode | | Single-Mode | | | |
| Fiber Number | Dual Fibers | | | Single Fiber | | | |
| Wave Length | 850 nm | 1310 nm | | TX: 1550 nm RX: 1310 nm | TX: 1310 nm RX: 1550 nm | TX: 1550 nm RX: 1310 nm | TX: 1310 nm RX: 1550 nm |
| Dimensions (W × D × H) | 3.7×2.9×1.1 in (94.5×73.0×27.0 mm) | | | | | | |
| Operating Temperature | 0–40 °C (32–104 °F) | | | 0–50 °C (32–122 °F) | | | |
| Environment | Storage Temperature: -40–70 °C (-40–158 °F) Operating Humidity: 10–90% RH Non-Condensing; Storage Humidity: 5–90% RH Non-Condensing | | | | | | |

Power Chassis—Ensure the Scalability of Installation



TL-MC1400

- Up to 14 Media Converter Units
- 9 VDC / 0.6 A Power Output
- Redundant Power Supply
- Hot-Swappable
- Mounted Two Cooling Fans for Better Ventilation



TL-FC1420

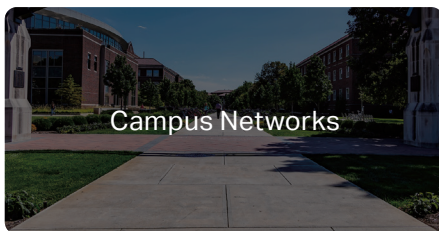
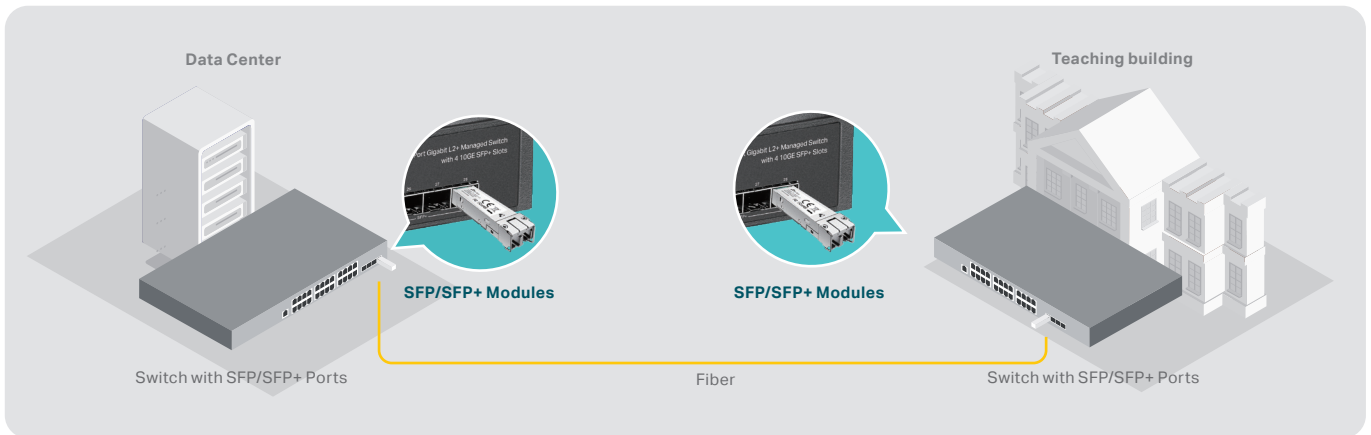
- Up to 14 Media Converter Units
- 5 VDC / 0.6 A Power Output
- Redundant Power Supply
- Hot-Swappable
- Fanless

*Certain media converters are equipped with WDM technology and use single fiber to transmit and receive data.

**Only TL-FC111PB-20 is equipped with PoE output port.

SFP/SFP+ Modules—High-Speed Fiber Connections

TP-Link offers a variety of fiber modules to suit your fiber connectivity applications. Multi-mode and single-mode modules with 1000Base SFP or 10GBase SFP+ ports are available, ideal for linking enterprise fiber networks, campus fiber networks, ISP networks, and more.



TP-Link SFP/SFP+ Modules at a Glance

| | | | | | | | | |
|-----------------------|---|-------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|--------------|
| Product Picture | | | | | | | | |
| Model | TL-SM311LM | TL-SM311LS | TL-SM321A-2 | TL-SM321B-2 | TL-SM321A | TL-SM321B | TL-SM5110-LR | TL-SM5110-SR |
| Data Rate | 1.25 Gbps | | | | | | 10 Gbps | |
| Fiber Ports | LC/UPC Duplex | | | LC/UPC Simplex | | | LC/UPC Duplex | |
| Transmission Distance | 550 m | 20 km | 2 km | | 20 km | | 10 km | 300 m |
| Fiber Type | Multi-Mode | Single-Mode | Single-Mode | | | Single-Mode | Multi-Mode | |
| Fiber Number | Dual Fibers | | Single Fiber | | | | Dual Fibers | |
| Wave Length | 850 nm | 1310 nm | TX: 1550 nm RX: 1310 nm | TX: 1310 nm RX: 1550 nm | TX: 1550 nm RX: 1310 nm | TX: 1310 nm RX: 1550 nm | 1310nm | 850nm |
| Operating Temperature | 0–70 °C (32–158 °F) | | | | | | | |
| Environment | Storage Temperature: -40–85 °C (-40–185 °F); Operating Humidity: 10–90% RH Non-Condensing; Storage Humidity: 5–90% RH Non-Condensing | | | | | | | |

Reliable and Professional Quality Assurance



Continuous Innovations

Independent research and development.



Vertical Integration

In-house manufacturing maintains the quality of every component.



High-Level Manufacturing

Decades of experience combined with high-tech supporting facilities.



Complete Quality Control

Develops, builds, crafts and sells products from start to finish, running rigorous whole-process quality-control tests.