

## Product Specifications

Product : 10/100/1000M Gigabit Ethernet Media Converter with SFP Slot

### Overview

- Ethernet media converter that converts media transmission between UTP copper cabling and fibre SFP (Small Form-Factor Pluggable) transceivers.
- Compliant with (IEEE 802.3, IEEE 802.3u, IEEE 802.3z and IEEE 802.3ab) standards.
- Supports inter-conversion between 10Base-T / 100Base-TX / 1000Base-T electrical signals and 1000Base-SX/LX optical signals.
- Extends network reach from 100m over copper to up to 120 km over fibre optic cable.



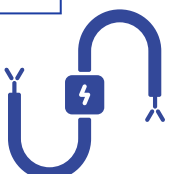
### Features

- Inter-conversion between adaptive (10Base-T / 100Base-TX / 1000Base-T and 1000Base-SX/LX).
- Ports: 10/100/1000Base-TX (RJ45) and 1000Base-SX/LX (SFP slot).
- Supports full-duplex and half-duplex with auto-sensing.
- Auto MDI/MDI-X sensing – simplifies system commissioning and installation.
- Supports transmission of extra-long VLAN packets.
- Supports Quality of Service (QoS), ensuring reliable transmission of VoIP packets.

## Technical Specifications

### Connectivity & Transmission

Parameter	Specification
Access Mode	10/100/1000 Mbps Gigabit Ethernet
Standards	IEEE 802.3 10Base-T · IEEE 802.3u 100Base-TX/FX · IEEE 802.3ab 1000Base-T · IEEE 802.3z 1000Base-SX/LX
Wavelength	850 nm / 1310 nm / 1550 nm
Transmission Distance – Multi-mode dual fibre	220 m (62.5/125 µm) / 550 m (50/125 µm)
Transmission Distance – Single-mode dual fibre	20 / 40 / 60 / 80 km
Transmission Distance – Single-mode single fibre	20 / 40 / 60 / 80 km
Transmission Distance – Copper (Cat-5)	100 m
Ports – Copper	1 × RJ45 (STP/UTP Cat-5 twisted pair)
Ports – Optical	1 × SFP slot (3.3 V)



## Performance

Parameter	Specification
Conversion	Media conversion
BER (Bit Error Rate)	$< 10^{-9}$
MTBF	100,000 hours
LED Indicators	POWER (power supply) <ul style="list-style-type: none"><li>FX LINK (optical link activity)</li><li>TP LINK1000 (1000 Mbps)</li><li>TP LINK100 (100 Mbps)</li><li>TP ACT (packet forwarding activity).</li></ul>

## Power & Physical

Parameter	Specification
Power Supply	External: AC 90–240 V input, 5 V / 2 A output
Power Consumption	5 W
Operating Temperature	-10 °C to +55 °C
Operating Humidity	5% – 90% RH
Storage Temperature	-40 °C to +70 °C
Storage Humidity	5% – 90% RH (non-condensing)
Dimensions (W × D × H)	71 × 94 × 26 mm

## Revision record

Date	version	change Description
May 1, 2026	V.0	First release

