

# Gigabit WDM Media Converter

## MODEL:

TL-FC311A-2, TL-FC311B-2 (2km)

TL-FC311A-20, TL-FC311B-20 (20km)

## Highlights

- 1 × 10/100/1000Mbps Auto-Negotiation RJ45 port supports Auto-MDI/MDIX
- Auto-negotiation of Half-Duplex/Full-Duplex transfer mode
- Adopts WDM technology, transmitting and receiving data on one single fiber
- Extends fiber distance up to 2 km/20km

## Overview

TP-Link Gigabit WDM Media Converter is able to convert between electrical and optical signals, providing a gigabit RJ-45 port and a gigabit SC fiber port. WDM (wavelength division multiplexing) technology enables the media converter to send and receive data simultaneously using only one single mode fiber through two channels of different wavelengths, with strong anti-interference ability. The maximum transmission distance can reach up to 2 km or 20 km, varying among different models.

The media converter of model A can work in pair with model B, with one device transmitting signals of 1550nm wavelength and receiving signals of 1310nm wavelength, and the other vice versa. In other scenarios, a single media converter can connect to an SFP module and an RJ-45 port of another device, flexibly fit into diverse network topology.

Besides, this media converter can work as a standalone device (no rack required) or with TP-Link's TL-FC1420 rack for central management and power supply.

# Specifications

## Hardware Features & Performance

Model		TL-FC311A-2	TL-FC311B-2	TL-FC311A-20	TL-FC311B-20
General	Standards	IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3z			
	LED	PWR, Link/Act			
	Connector	1 SC fiber optic; 1 RJ45 jack			
	Twisted-Pair	100BASE-Tx: 2-pair UTP/STP of Cat. 5 or above ( $\leq 100$ m) 1000BASE-Tx: 4-pair UTP/STP of Cat. 5e or above ( $\leq 100$ m)			
	Fiber	9/125 $\mu$ m single-mode fiber			
	Transmission Distance	$\leq 2$ km	$\leq 2$ km	$\leq 20$ km	$\leq 20$ km
	Wave Length	1550 nm Tx, 1310 nm Rx	1310 nm Tx, 1550 nm Rx	1550 nm Tx, 1310 nm Rx	1310 nm Tx, 1550 nm Rx
	Power	External Power Adapter: 5 V/0.6 A			
	Dimensions	94.5x73x27 mm			
Physical & Environment	Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)			
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)			
	Operating Humidity	10% to 90% RH non-condensing			
	Storage Humidity	5% to 90% RH non-condensing			

Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: [www.tp-link.com](http://www.tp-link.com). Specifications are subject to change without notice.

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