

# Gigabit WDM Media Converter

## MODEL:

FC311A-2, FC311B-2 (2 km)

FC311A-20, FC311B-20 (20 km)



## 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 Media Converters convert between electrical and optical signals, and easily extend the distance of an existing gigabit network. Long-range point-to-point connections are easily built with the gigabit fiber converters, ideal for connecting factory automation equipment, the network in another building, remote surveillance system, and more.

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.

# Specifications

## Hardware Features & Performance

Product Picture					
Model		FC311A-2	FC311B-2	FC311A-20	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 (≤100 m) 1000BASE-Tx: 4-pair UTP/STP of Cat. 5e or above (≤100 m)			
	Fiber	9/125 μm single-mode fiber			
	Transmission Distance	≤2 km	≤2 km	≤20 km	≤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			