ComX Computers
Product Specification Sheet

TL-FC311A-20

TP-Link TL-FC311A-20 Gigabit WDM Media converter

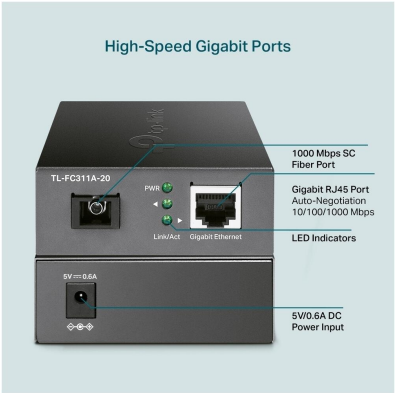
Product Overview

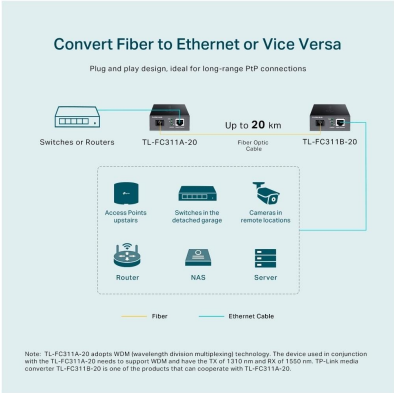
TP-Link TL-FC311A-20 Gigabit WDM Media converter, 1x Gigabit SC Fiber Port, 1x Gigabit RJ45 Port (Auto MDI/MDIX), Single-mode Fiber, 1550 nm TX & 1310 nm RX Wave length











Specifications

Overview Summary:

The TP-Link TL-FC311A-20 Gigabit WDM Media Converter is a powerful solution for extending your Ethernet network over single-mode fiber. Designed for seamless conversion between RJ45 and SC fiber ports, this device ensures fast and stable connectivity over distances of up to 20 km. Perfect for businesses and organizations in South Africa that require reliable long-range connections, it delivers both performance and cost efficiency. Shop now and upgrade your network with ease.

With its compact design, WDM technology, and plug-and-play operation, the TL-FC311A-20 is ideal for applications such as security monitoring, wireless backhaul, and enterprise networking. Invest in this dependable converter today to ensure smooth, scalable network expansion with minimal cabling costs. Buy now and enjoy high-speed, uninterrupted data transmission.

Performance tier: Enterprise-grade

Uses: Business networking, campus connectivity, security monitoring, wireless backhaul, fiber-to-Ethernet conversion

Overview:

TP-Link TL-FC311A-20 Gigabit WDM Media Converter
The TP-Link TL-FC311A-20 is a high-performance gigabit media converter designed to bridge copper Ethernet and fiber networks. With one Gigabit SC fiber port and one Gigabit RJ45 port (Auto MDI/MDIX), it supports seamless data transmission over long distances using single-mode fiber.

Description:

This media converter enables reliable long-distance connectivity up to 20 km, making it ideal for commercial applications such as campus security monitoring and wireless networking. By adopting WDM technology, it transmits and receives data through a single fiber, reducing cabling costs while maintaining fast, stable gigabit performance.

Features:

Key Points at a Glance:

- 1x 10/100/1000 Mbps RJ45 port with Auto-MDI/MDIX
- Gigabit SC fiber port for stable optical connectivity
- Half/Full-Duplex auto-negotiation
- WDM technology for single-fiber transmission
- Extends fiber links up to 20 km

Practical Use
The TL-FC311A-20 converts electrical Ethernet signals into optical signals, allowing businesses to extend networks over greater distances. It is well-suited for organizations that need secure, fast, and cost-efficient connectivity across large areas.

How it Works
This converter uses WDM (wavelength division multiplexing) to send and receive data simultaneously on a single fiber. It transmits data at 1550 nm and receives at 1310 nm, ensuring efficient use of fiber infrastructure. To operate correctly, the paired device should send at 1310 nm and receive at 1550 nm. For example, the TL-FC311B-20 is fully compatible for deployment alongside the TL-FC311A-20.

Deployment Options

- Can be used as a standalone device without additional hardware
- Compatible with TP-Link TL-FC1420 rack system for rack-mounted setups
- Supports automatic negotiation of duplex modes on the TX port

Why Choose the TL-FC311A-20

This device is a practical solution for businesses seeking long-range gigabit connectivity without excessive cabling costs. With reliable WDM technology and compatibility with TP-Link's ecosystem, it delivers a flexible, scalable, and cost-effective networking solution.

Specifications:

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Specifications	
Product Code	TL-FC311A-20
Standards and Protocols	IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3z
Operating Temperature	0degreesC to 50degreesC (32degreesF to 122degreesF)
Storage Temperature	-40degreesC to 70degreesC (-40degreesF to 158degreesF)
Operating Humidity	10% to 90% RH non-condensing
Storage Humidity	5% to 90% RH non-condensing
Interface	1 x Gigabit SC Fiber Port
	1 x 10/100/1000 Mbps RJ45 Port (Auto MDI/MDIX)
Network Media	Single-mode Fiber
	UTP category 5, 5e cable (maximum 100m)
Power Supply	External Power Adapter: 5 V/0.6 A
LED	PWR, Link/Act
Dimensions (W x D x H)	3.7 x 2.9 x 1.1 in (94.5 x 73.0 x 27.0 mm)
Wave Length	1550 nm TX, 1310 nm RX
Fiber Type	9/125 um single-mode fiber
Package Contents	Media Converter TL-FC311A-20
	Power Adapter
	Installation Guide

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/TL-FC311A-20-TP-Link-TL-FC311A-20-Gigabit-WDM-Media-converter-p-328340.php

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