TL-MC111CS

TP-Link MC111CS Ethernet RJ45 to Ethernet Single-mode SC Fiber Converter

Product Overview

TP-Link MC111CS Ethernet RJ45 to Ethernet Single-mode SC Fiber Converter, Full-duplex, Tx:1550nm, Rx:1310nm, Up to 20Km, Switching Power Adapter, Chassis Mountable







Specifications

About this product

The TP-Link MC111CS 10/100Mbps WDM Media Converter provides reliable conversion between RJ45 Ethernet and single-mode SC fiber networks. Featuring WDM technology, full-duplex operation, 1550nm Tx and 1310nm Rx wavelengths, and support for fiber links up to 20km, it is ideal for extending network connectivity over long distances while reducing fiber cabling requirements. Buy now from our website for dependable fiber-to-Ethernet networking in South Africa.

Overview Summary

TP-Link MC111CS 10/100Mbps WDM Media Converter

The TP-Link MC111CS is a professional-grade media converter designed to bridge copper Ethernet and single-mode fiber optic networks. It converts 10/100Mbps RJ45 Ethernet connections to 100Base-FX fiber, making it suitable for long-distance network deployments where traditional Ethernet cabling is limited.

Using WDM technology, the MC111CS transmits and receives data over a single fiber strand, reducing cabling costs while maintaining stable communication. With support for fiber distances of up to 20km, automatic MDI/MDIX detection, and full-duplex operation, it is well suited for business, industrial, surveillance, and campus networking applications.

Performance tier: Professional Long-Distance Networking

Uses: Fiber network extension, CCTV networking, campus networks, industrial networking, remote building connectivity, Ethernet to fiber conversion

Overview

The MC111CS is a media converter designed to convert 100BASE-FX fiber to 10/100Base-TX copper media or vice versa. Adopting WDM technology, MC111CS takes only one fiber cable to transmit and receive data, which will half cable cost for you. Designed with IEEE 802.3u 100Base-TX and 100Base-FX standards, the MC111CS is designed for use with single-mode fiber cable utilizing the SC-Type connector. The MC111CS supports longwave (LX) laser specification at a full wire speed forwarding rate. It works at 1550nm on transferring data and at 1310nm on receiving data. So the other end device to cooperate with the MC111CS should work at 1310nm on transferring data and at 1550nm on receiving data. Another TP-LINK´s media converter MC112CS is just one of the examples to cooperate with MC111CS. Auto MDI/MDI-X for TX port, Auto negotiation of duplex mode on TX port, and front panel status LEDs. The MC111CS will transmit at extended fiber optic distances utilizing single-mode fiber up to 20 kilometers(12.5 miles).

Description

The TP-Link MC111CS is designed to extend Ethernet networks over long distances using single-mode fiber optic cabling. It converts standard 10/100Mbps copper Ethernet connections into fiber optic links, allowing network connectivity between buildings, remote facilities, surveillance installations, and industrial environments.

By utilizing WDM technology, the converter transmits and receives data through a single fiber strand, reducing fiber infrastructure requirements while maintaining reliable communication. The device operates using a 1550nm transmit wavelength and a 1310nm receive wavelength and is designed to work with compatible WDM fiber equipment.

Its compact housing allows standalone deployment or installation within compatible chassis systems. Auto MDI/MDIX support simplifies installation by automatically detecting cable types, while full-duplex operation helps maximize network efficiency. With support for fiber distances up to 20km, the MC111CS is a practical solution for extending network coverage beyond traditional Ethernet limitations.

Features

The TP-Link MC111CS delivers reliable Ethernet-to-fiber conversion for professional networking environments.

- Converts 10/100Mbps Ethernet to 100Base-FX fiber connectivity.
- WDM technology enables transmission and reception over a single fiber strand.
- Supports single-mode SC fiber connections.
- Extends network links up to 20km.
- 1550nm transmit and 1310nm receive wavelength configuration.
- Auto MDI/MDIX support simplifies Ethernet connectivity.
- Supports half-duplex and full-duplex operation.
- Link Fault Passthrough and Far End Fault features help minimize network downtime.
- Compact standalone design with chassis mounting compatibility.
- LED status indicators for easy monitoring.
- External switching power adapter included.
- Compliant with IEEE 802.3, IEEE 802.3u and IEEE 802.3x standards.

What's in the Box

- TP-Link MC111CS Media Converter
- Power Adapter
- Installation Guide

Specifications

Standards and Protocols	IEEE 802.3, IEEE 802.3u
Basic Function	Adopts WDM technology
	Half/Full-Duplex transfer mode for FX port
	minimize the loss caused by link failure timely
	Extends fiber distance up to 20km (12.5 miles)
Ports	1 x 100M SC/UPC port
	1 x 10/100M RJ45 port (Auto MDI/MDIX)
Wave Length	1550nm Tx/1310nm Rx
WDM TX	1550nm
WDM RX	1310nm
Network Media 10BASE-T	UTP category 3, 4, 5 cable (maximum 100m)
	EIA/TIA-568 100ohm STP (maximum 100m)
Network Media 100BASE-T	UTP category 5, 5e cable (maximum 100m)
	EIA/TIA-568 100ohm STP (maximum 100m)
Network Media 100BASE-FX	Single-mode Fiber
LED Indicators	PWR, Link/Act
Dimensions (W*D*H)	3.7 x 2.9 x 1.1 in.
	(95 x 73 x 27 mm)
Power Supply	External Power Adapter
Max Power Consumption	2.49W
Safety & Emission	FCC, CE, RoHS
Environment	Operating Temperature: 0degreesC~40degreesC (32degreesF~104degreesF)
	Storage Temperature: -40degreesC~70degreesC (-40degreesF~158degreesF)
	Operating Humidity: 10%~90% non-condensing
	Storage Humidity: 5%~90% non-condensing

FAQ

What does the TP-Link MC111CS do?

The TP-Link MC111CS converts standard Ethernet connections into fiber optic connections and vice versa.

It allows network devices using RJ45 Ethernet ports to communicate across long-distance single-mode fiber links.

What fiber type is required for the MC111CS?

The converter is designed for use with single-mode fiber optic cable and SC/UPC connectors.

Using the correct fiber type ensures proper performance and maximum transmission distance.

What is the maximum transmission distance?

The MC111CS supports fiber links up to 20 kilometers.

This makes it suitable for connecting remote buildings, facilities, and network segments.

Does the MC111CS use one or two fiber strands?

The device uses WDM technology to transmit and receive data over a single fiber strand.

This helps reduce fiber cabling costs while maintaining reliable communication.

Can the converter be used for CCTV systems?

Yes, the MC111CS is commonly used to extend network connections for IP surveillance systems.

It enables cameras and network equipment to communicate across long distances using fiber infrastructure.

Is a power adapter included?

Yes, the package includes an external switching power adapter.

The adapter provides the required power for standalone operation.

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-MC111CS-TP-Link-MC111CS-Ethernet-RJ45-to-Ethernet-Single-mode-SC-Fiber-Converter-p-84672.php

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