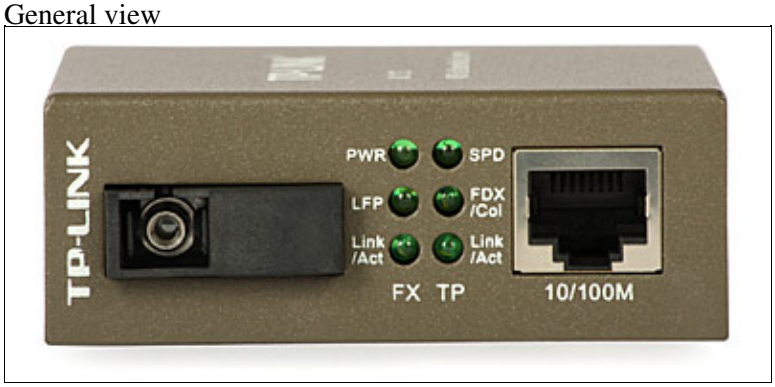
Ethernet Media Converter: TP-LINK MC111CS (100Mb/s, single-mode, TX 1550nm, RX 1310nm, SC, 20km)
Code: **L11721**

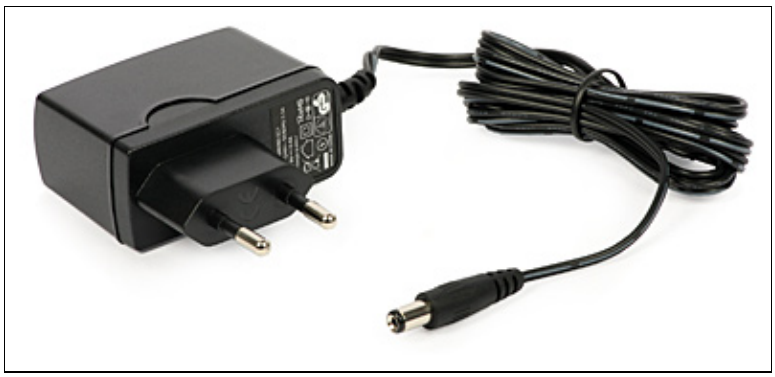
Ethernet media converter TP-LINK MC111CS allows to change electrical signals (Ethernet data stream) coming via typical STP/UTP cable into modulated light signal transmitted via one single-mode fiber.

General view

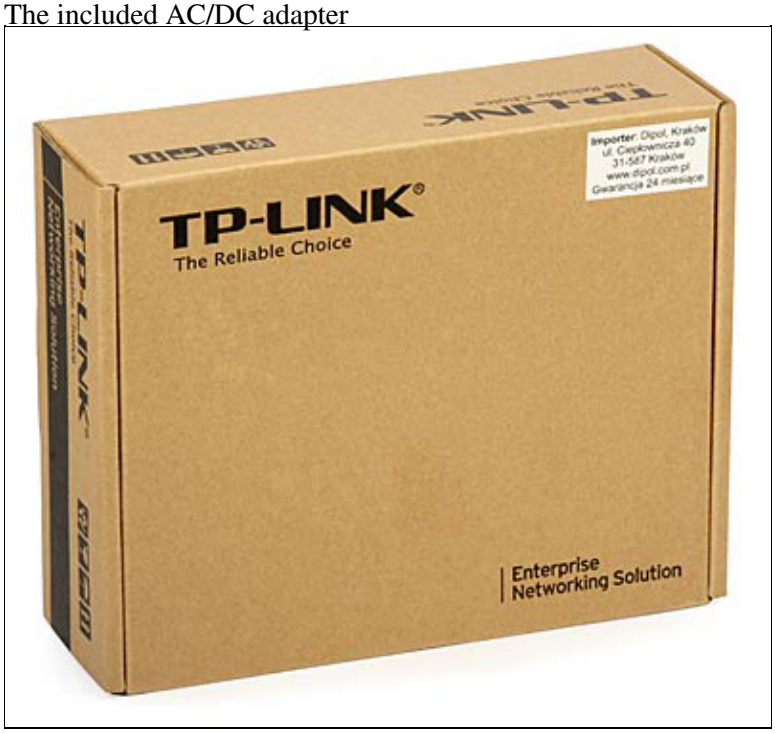


Front view

Rear view



The included AC/DC adapter



View of the packaging

Distinguishing features:

- 1 x Ethernet port 10/100 Mbps (RJ-45)
- maximum transmission distance - 20 km
- transmission via one single-mode fiber (WDM)
- LED indicators showing operating status
- easy installation (plug and play)
- power supply included

TP-LINK MC111CS is reliable media converter enabling the transmission of Fast Ethernet data stream in one single-mode optical fiber over distances up to 20 km. The media converter has one SC connector used to transmit and receive optical signals. It is possible due to the use of wavelength-division multiplexing technology (WDM) - different wavelengths of laser light carry different signals, over one strand of fiber. It significantly lowers installation costs.

The device transmits optical signal in the III transmission window (1550 nm) and receives optical signal in the II window (1310 nm). Sensitivity of the receiver and output power of the transmitter are adapted to transmit optical information up to 20 km.

TP-LINK devices have MDI/MDIX auto detection feature and automatically find and set the fastest connection speed and mode. "Store and forward" mechanism allows to verify the received data using checksum function.
TP-LINK media converters are fully compatible with IEEE 802.3, IEEE 802.3u, IEEE 802.3x standards. Their installation is very simple thanks to "Plug and Play" feature. The LED indicators show current operating status.
Specifications:

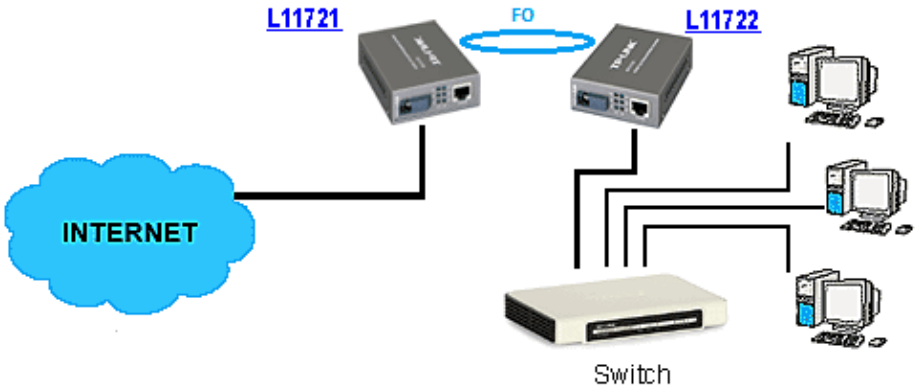
Name	Ethernet media converter TP-LINK MC111CS	
Code	**L11721**	
Standards	IEE 802.3, IEEE 802.3u, IEE 802.3x	
Transmission properties	Half/Full Duplex transfer (TX port)	
	WDM technology	
	Full/Half Duplex Flow Control	
Interfaces	1x10BASE-T	UTP 3,4,5 (max. 100 m) EIA/TIA-568 STP 100 (max. 100 m)
	1x100BASE-T	UTP 5, 5e (max. 100 m) EIA/TIA-568 STP 100 (max. 100 m)
	1x100BASE-FX	single-mode (SC)
WDM	TX	1550nm
	RX	1310nm
LED indicators	PWR, FDX/Col, LINK, SPD	
Certificates	FCC, CE	
Transmission windows [nm]	1310, 1550	
Range [km]	20	
Power	230 VAC / 9 VDC	
Dimensions [mm]	94.5x73x27	
Operating temperature [°]	0-40	

NOTICE!! It is not allowed to look directly at the fiber port when the device is plugged. The radiation invisible for the human eye can damage the retina!
Why to choose fiber optics:

- possibility of sending signal over long distances (low attenuation of optical fibers - e.g. for the wavelength of 1550 nm the attenuation is about 0.2 dB per kilometer, which means that the signal can be sent at a distance of 200 km - without regeneration)
- high-volume information transfer via single fiber
- resistance to electromagnetic interference
- resistance to weather conditions (humidity, electrostatic discharges and others)
- no tapping possibility
- low weight and small dimensions

Ethernet Media Converter: TP-LINK MC111CS (100Mb/s, single-mode, TX 1550nm, RX 1310nm, SC, 20km)

TP-LINK media converters are widely used for the transmission of Ethernet signals over long distances and in areas exposed to harsh weather conditions. Optical fibers provide full electrical insulation and resistance to electromagnetic interference. TP-LINK Ethernet media converters are primarily used to connect building LANs (e.g. of scattered buildings of one corporation). Below there is a sample application of that converters.



Example application of TP-LINK media converters