

## CLR-MCF-11

10/100Base-TX to 100Base-FX  
SC SM Converter 20km



### Overview

CLR-MCF-11 series 10/100/1000M Ethernet media converter can interconnect two different types of ethernet media by converting electrical signals of 10/100Base-TX interface to optical signals of 100Base-FX. It extends the the 100m network transmission distance of copper cables to 20km via singlemode 9/125 $\mu$  fiber optical cable. It enables the data to transmit in two different media of electrical and optical networks either by the technology of data link L2 store-and-forward, or by the one of PHY L1 cut-through. The transmission is in multi-mode dual fiber.

### Features

- Supports conversion between 10/100Base-TX and 100Base-LX
- 1 x 10/100 RJ45 Port and 1 x 100Base-FX Singlemode Optic SC port
- Auto negotiation function allows UTP ports to auto select 10/100M and Full Duplex or Half Duplex
- The UTP port supports MDI/MDI-X auto sense crossover connections
- Plug-and-play, easy installation
- Supports transmission of VLAN packets
- Transmits big size packets up to 1600 bytes
- Supports Quality of Service (QoS) ensuring the safe transmission of VoIP packets
- Supports STP to form a redundant network.

## Specifications

Access mode	- 10/100Mbps Fast Ethernet
Standard	- IEEE802.3ab 1000Base-T , IEEE802.3z 1000Base-LX Gigabit ethernet, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	- Single-mode 1310nm
Transmission distance	- single-mode:20km; - Category-5 twisted pair: 100m
Port	- One RJ45 connector: connected to STP/UTP category-5 twisted pair - SM: SC/ST/FC (fiber size: 9/125μm)
Conversion means	- Media conversion
Buffer size	1Mbit
Delay	Store-and-forward: 9.6μs; cut-through: 0.9μs
BER	<10 <sup>-9</sup>
MTBF	100,000 hours
LED	- PWR (power supply); FX LINK/ACT (optical link/action) FDX (FX full duplex), TP LINK/ACT (twisted pairs link/action) TP 100 (100M transmission rate of twisted pairs), FX 100 (100M transmission rate of optical fiber)
Power	- DC5V 1A (external)
Power consumption	2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Maintaining temperature	-40~70°C
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	26mm (H) * 70mm (W) * 94 mm (D) (external power supply) 30mm (H) * 110mm (W) * 140 mm (D) (internal power supply)

## Application

