

CHMC-101 series are the fast Ethernet fibre optic media converter which can convert two different transmission medium between network cable and optical fibre. It supports 10/100Mbps bandwidth.

CHMC-101 Ethernet media converter can interconvert electrical signals of 10Base-T and 100Base-TX twisted pairs with optical signals of 100Base-FX. It extends the network transmission distance from 100m via copper cables to 120 km via fibre optical cable.

This product can be used in a pair or work with other devices. It is widely used in surveillance monitoring, FTTH, etc.

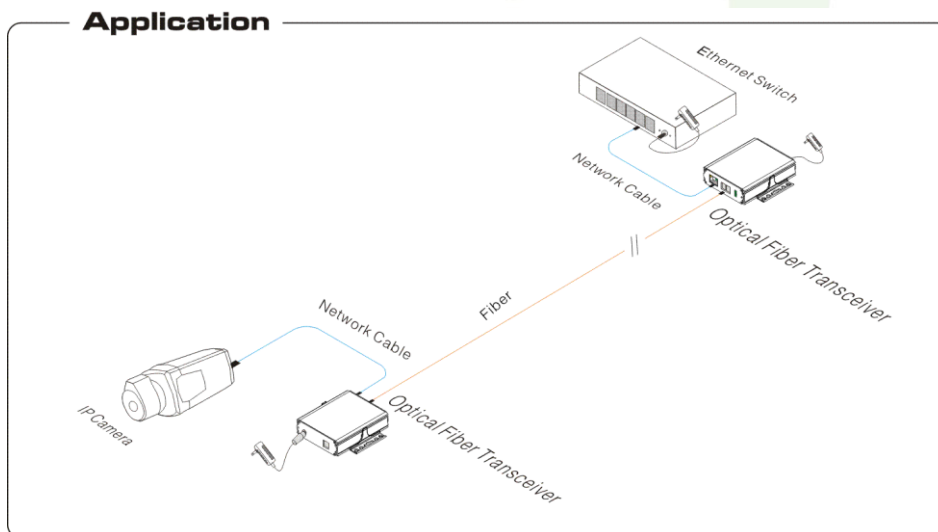
Key Features

- Provide 100Mbps optical port and Ethernet port, network data can switch between Ethernet and optical;
- Adopts 1X9 optical transceiver, SC connector, use single mode double fibres, transmission distance up to 120km;
- Compatible with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/FX Ethernet standard;
- Support 10/100Mbps full/half duplex auto adaptive, support auto MDI/MDIX;
- Power adapter use aviation connector, more stable and resalable;
- Dynamic LED indicator, real-time show the working status, provide simple working status indication and trouble shooting;
- Metal case design, convenient for desktop and rack-mount installation
- Extremely low power consumption (less than 5W), low heat, reliable and stable performance, and long lifetime;
- Options in single mode dual fibre, multi-mode dual f fibre, and single mode in single fibre
- Supporting Link Failure Alert (LFA): When optical fibre or UTP is at fault, the converter could stop all the link(optional)
- CE,FCC, RoHS compliance



Applications

10/100Mbps fast optical Ethernet long-distance transmitting network



European Standards | Best Performance & Guaranteed Reliability | Lifetime Warranty | Fully Compliant With MSA

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Technical specifications

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u,100Base-TX/FX Fast Ethernet, control,IEEE802.1q VLAN,IEEE802.1p QoS,IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fibre multi-mode: 2 km; Dual-fibre single mode: 10/20/40/60/80/100/120 km Single fibre single mode: 20/40/60/80//100/120 km Category-5 twisted pairs: 100m
Port	One RJ45 por: For connecting STP/UTP category-5 twisted pairs One optical port: Multi-mode, dual fibre: SC or ST (50, 62.5/125µm) Single mode, dual fibre: SC or FC (9/125µm) Single mode Single fibre: SC or FC (9/125µm)
Conversion method	store-and-forward/cut-through
MAC address table	1K
Buffer space	1Mbit
Flow control	Full duplex: flow control; Half duplex: back pressure
Delay	Store-and-forward: 9.6µs cut-through: 0.9µs
BER	<10 ⁻⁹
MTBF	100,000 hours
LED indicator	PWR, TXLink/ACT, FDX, FEF, FXLink/ACT, SPD
Power supply	85~265VAC to DC5V 1A Or 36~60VDC(48VDC) to DC 5V 1A Or 12~36VDC to DC 5A 1A
Power consumption	<5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5% ~ 90% non-condensing
Dimensions	71mm (W) * 94mm (D) * 26 mm (H) (external power supply) 140 mm (W) * 110 mm (D) * 40 mm (H) (internal power supply) 25 mm (W) * 152 mm (D) * 128 mm (H) (slide-in type)
Weight	0.45kgs(external), 0.8kgs(internal)

Optical parameters

MM 2Km	Fibre: 62.5/125, 50/125, 100/140µm
	Output power: > - 18dBm
	Receiving sensitivity: < - 31dBm
	Distance: 0 ~ 2km or 0 ~ 5km
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: dual-fibre
	Wavelength: 850nm/1300nm/1310nm
SM 20km	Fiber:9/125, 8.3/125, 8.7/125 or 10/125µm
	Distance: 0 ~ 20km
	Output power:-13 ~ - 8dBm
	Receiving sensitivity: < - 34dBm
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: single-fibre / dual-fibre
	Wavelength: 1310nm/1550nm(single-fibre),1310nm(dual-fibre)
SM 40km	Distance: 0 ~ 40km
	Output power: - 11 ~ - 6dBm
	Receiving sensitivity: < - 34dBm
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: single-fibre / dual-fibre
	Wavelength :1310nm/1550nm(single-fibre),1310nm(dual-fibre)
SM 60km	Distance: 0 ~ 60km (when less than 15km, use attenuator)
	Output power: - 5 ~ 0dBm
	Receiving sensitivity: < - 36dBm
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: single-fibre / dual-fibre
	Wavelength: 1310nm/1550nm(single-fibre),1310nm(dual-fibre)
SM 80km	Distance: 0 ~ 80km (when less than 15km, use attenuator)
	Output power: - 8 ~ -3dBm
	Receiving sensitivity: < - 36dBm
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: single-fibre / dual-fibre
	Wavelength: 1310nm/1550nm(single-fibre),1550nm(dual-fibre)
SM 120km	Distance: 0 ~ 120km (when less than 15km, use attenuator)
	Output power: - 3 ~ 5dBm
	Receiving sensitivity: < - 39dBm
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: dual-fibre
Wavelength: 1550nm	

Ordering information

Model	Description
CHMC-101-3M02Axx	10/100M Dual Fibre Multi-mode 1310nm 2km
CHMC-101-3S10Axx	10/100M Dual Fibre Single-mode 1310nm 10km
CHMC-101-3S20Axx	10/100M Dual Fibre Single-mode 1310nm 20km
CHMC-101-3S40Axx	10/100M Dual Fibre Single-mode 1310nm 40km
CHMC-101-3S60Axx	10/100M Dual Fibre Single-mode 1310nm 60km
CHMC-101-5S80Axx	10/100M Dual Fibre Single-mode 1550nm 80km
CHMC-101-5S120Axx	10/100M Dual Fibre Single-mode 1550nm 120km
CHMC-101-3S25B10/5S20Bxx	10/100M Single-mode WDM 1310/1550nm 25km
CHMC-101-3S40B10/5S40Bxx	10/100M Single-mode WDM 1310/1550nm 40km
CHMC-101-3S80B10/5S80Bxx	10/100M Single-mode WDM 1310/1550nm 80km
CHMC-101-3S100B10/5S100Bxx	10/100M Single-mode WDM 1310/1550nm 100km

Note:

1. Where xx =

- 10 (US power adapter)
- 20 (European power adapter)
- 30 (UK power adapter)
- 40 (Australian power adapter)

2. Default fibre connector is SC/PC, ST/FC connector also available, please specify when place order.

