



CHMC-102 SERIES

10/100/1000M standalone Media Converter

OVERVIEW

CHMC-102 Series Gigabit Fiber Media Converter can convert Optical - Electric Ethernet signals between 10/100/1000M UTP interface (TX) and 1000M optical fiber interface (FX). The traditional 10/100/1000M gigabit Ethernet can be extended to the distance of 100km through optical fiber link. The performance and quality of the products are excellent because of adopting latest Gigabit IC from USA and Taiwan. 6 Group LED indicated lights could fully monitor the working conditions of converters. It is easy for users to observe and diagnose the failure of converters. CHMC-102 Series Gigabit Converters could be used alone, and can also be inserted into 14 slots rack chassis which is suitable for the use of Network Centre.

KEY FEATURES

- Auto negotiation function allows UTP ports to auto select 10/100/1000M and Full Duplex or Half Duplex.
- The UTP port supports the connection of MDI/MDI-X auto crossover.
- Multimode Fiber: the max distance up to 224m/550m
- Singlemode Fiber: the max distance up to 120km
- Support Supports jumbo frame size 9K bytes(straight forward mode)
- Full- positioned LEDs to indicate power and network status
- Supporting flow control
- Adopting internal power supply
- Wall-mount or 14-slot rack chassis mountable
- LFP function optional
- CE,RoHS compliance

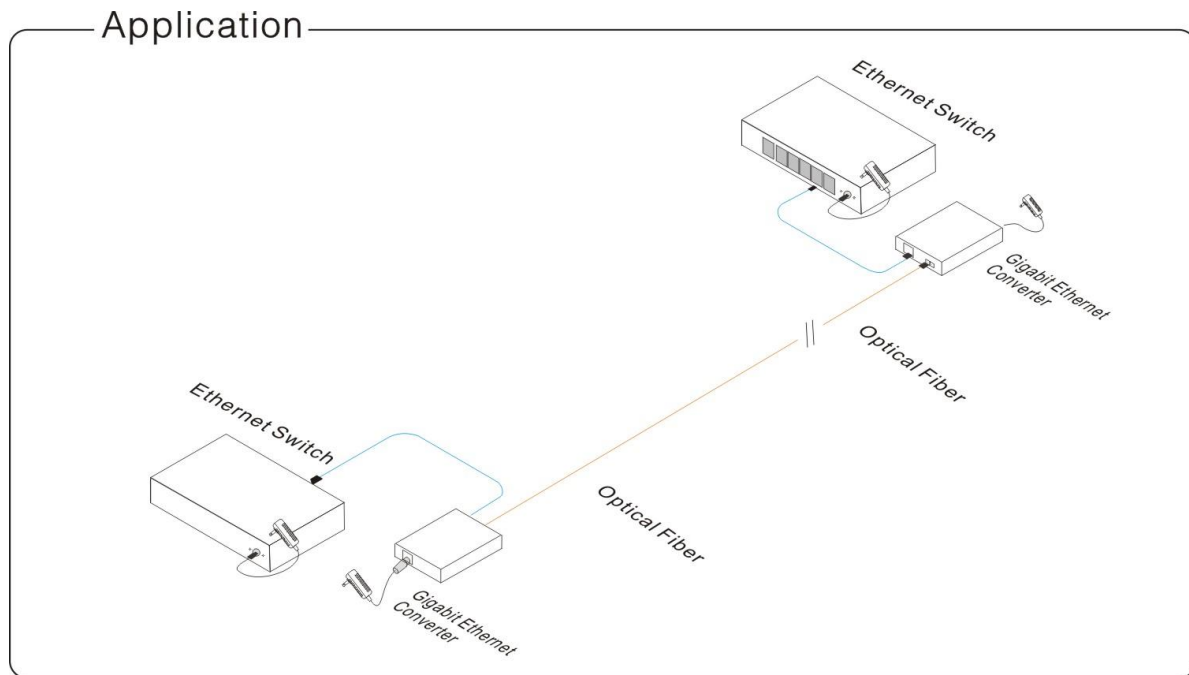


WHY US?

All our products meet European standards

We offer the best performance and guaranteed reliability

- ☑ Lifetime warranty as standard



Technical specifications

- ◆ Operating standards: IEEE802.3z/AB, 1000Base-T and 1000Base-SX/LX
- ◆ MAC address table: 4K
- ◆ Data Buffer: 1.75M
- ◆ Conversion Mode / Delay Time: Store-and-Forward < 10us, straight-through<0.9us
- ◆ Flow control: Full duplex-flow control, Half duplex-back pressure
- ◆ Connector: UTP: RJ-45,10/100/1000Mbps;
Fiber: SC/FC/ST/LC,1000Mbps
- ◆ Cable :
UTP cable: Cat 5e or Cat 6 (the max distance up to 100m)
Fiber : multimode : 50/125, 62.5/125 μ m (the max distance up to 550/224m)
Singlemode : 8.3/125, 8.7/125, 9/125 μ m (the max distance up to 100km)
Wavelength: 850nm/1310nm/1550nm
- ◆ Power: AC 110-220V to DC 5V 1A, or DC 48V to DC 5V 1A
Power Consumption: <2.5W



◆Ambient temperature: 0 ~ +50°C

◆Storage temperature: -20 ~ +70°C

◆Humidity: 5% ~ 90%

◆Housing: metal

◆Dimensions: 26 (high) x 70 (width) x 95 (length) mm

◆Weight:0.45kgs

◆MTBF: 50,000 hours

Optical Feature

Connector	Fiber type	Max distance	Wavelength	TX power	Sensitivity	Link Budget
SC	Multimode	224/ 550m	850nm	-11 ~ -3dBm	-18dBm	7dBm
SC	Multimode	2Km	1310nm	-11 ~ -3dBm	-18dBm	7dBm
SC	Singlemode	10km	1310nm	-10 ~ -3dBm	-21dBm	11dBm
SC	Singlemode	20km	1310nm	-8 ~ -3dBm	-21dBm	11dBm
SC	Singlemode	40km	1310nm	-4 ~ 0dBm	-25dBm	21dBm
SC	Singlemode	60km	1310nm	0 ~ 3dBm	-26dBm	26dBm
SC	Singlemode	80km	1550nm	-2 ~ 2dBm	-26dBm	24dBm



Ordering information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission distance	Fiber interface	Power
CHMC-102-8M05A10	10/100/1000	Dual-fiber multi-mode	850	220/550m	SC(ST/FC selectable)	External AC220V/DC-48V
CHMC-102-3M02A10	10/100/1000	Dual-fiber multi-mode	1310	2km	SC(ST/FC selectable)	External AC220V/DC-48V
CHMC-102-3S10/20/40A10	10/100/1000	Dual-fiber single-mode	1310	10/20/40km	SC(ST/FC selectable)	External AC220V/DC-48V
CHMC-102-5S60/80A10	10/100/1000	Dual-fiber single-mode	1550	60/80km	SC(ST/FC selectable)	External AC220V/DC-48V
CHMC-102-3S10/20B10 CHMC-102-5S10/20B10	10/100/1000	Single-fiber single-mode	1310/1550	10/20km	SC(ST/FC selectable)	External C220V/DC-48V
CHMC-102-3S40/60/80B10 CHMC-102-5S40/60/80B10	10/100/1000	Single-fiber single-mode	1310/1550 nm	40/60/80km	SC(ST/FC selectable)	External AC220V/DC-48V

Note: Default optical connector is SC/PC, while FC/ST/LC is optional