FMC-1001S

10/100/1000Base–T to 100/1000Base–X SFP Media Converter

The FMC-1001S family are Gigabit Ethernet 10/100/1000Base-T to 100/1000Base-X non-managed stand-alone media converters, which give you the fiber cabling connectors, LC with SFP module. Pluggable SFP are available in both multi-mode and single mode types as well as BiDi which allows bi-directional transmissions using only a single fiber cable. Auto-negotiation will automatically tailor to convert full-duplex signals, according to IEEE 802.3u standards. LED indicators signal the power status of the converter, UTP port speed and Link status FX port speed and Link status.

Features

- 10/100/1000Base-T to 100/1000Base-X Converter
- Auto-Negotiation
- Auto MDI/MDIX
- Forward 2048 bytes (Max.) packets in switch mode (copper & fiber port in different speed)
- Forward 16k bytes in converter mode (fiber & copper port at the same speed)
- Provides DIP switch to set function
  - Select fiber speed (100/1000M)
  - Select LPF enable / disable
  - Flow control enable / disable
- Supports transparent Q in Q double tagged frame
- Supports IEEE 802.1Q Tag VLAN pass thru
- May be concentrated into FMC-CH17 or FMC-CH08 chassis (Adapter Type only)

Standalone Option

Adapter Type

Dimension: 96.5×23×73.4mm(W×D×H) (Plastic)
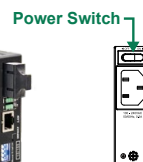
DC Type (12V Power Jack)

▲ Module for FMC-CH17/CH08 Chassis

Power Built-in Type

Power Switch

Dimension: 145×27×87mm(W×D×H) (Metal)

AC Type (100-240V)

Dimension: 135×23×73.4mm(W×D×H) (Plastic)

AC Type (100-240V)

Specifications

Optical Interface	Connector	SFP LC
	Data rate	1.25G / 125M
	Duplex mode	Full duplex
	Fiber	MM 50/125µm, 62.5/125µm
		SM 9/125µm
	Distance	MM 2km, SM 15/30km
		WDM 20/40km
	Wavelength	MM 1310nm, SM 1310,1550nm
		WDM 1310Tx/1550Rx (Type A)
		1550Tx/1310Rx (Type B)
Electrical Interface	Connector	RJ-45
	Data rate	10Mbps, 100Mbps, 1000Mbps
	Duplex mode	Full duplex
	Cable	100Base-TX Cat.5, 5e or higher
		1000Base-T Cat.5, 5e or higher
DIP Switch	Fiber Speed	100M/1000M
	LFP Fiber	Enable/Disable
DIP Switch	LFP Copper	Enable/Disable
	Flow Control	On/Off
Standards	IEEE 802.3, 802.3u, 802.3x, 802.3Z, 802,3ab	
Indications	LED (Power, FX Link, FX SPD, TX SPD, TX Link)	
Power Input	Adapter Type: DC 12V	
	Power Built-in Type: AC 100~240V	
	Power Built-in Type: DC 18~60V	

Power Consumption	< 3W	
Dimensions (W×D×H)	Adapter Type:	96.5 × 23 × 73.4mm
	Power Built-in Type :	135 × 23 × 73.4mm (Plastic)
		145 × 27 × 87mm (Metal)
Weight	Adapter Type :	120g
	Power Built-in Type :	140g (Plastic)
		550g (Metal)
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)	
Humidity	10 ~ 90% non-condensing	
Certification	CE, FCC	
MTBF	65,000 hrs	

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Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

Application

Figure 1: As Rack Module with Remote

Local

Remote
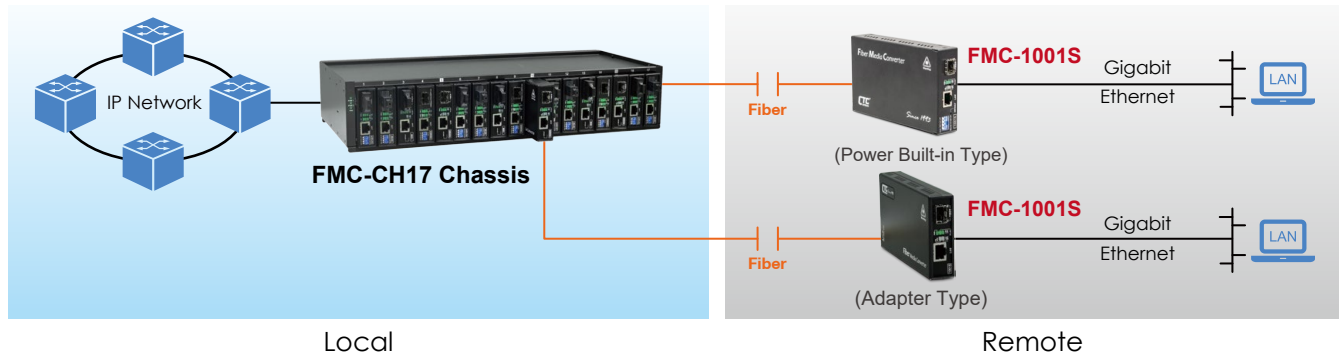
Figure 2: As Standalone Managed Converter

Local

Remote
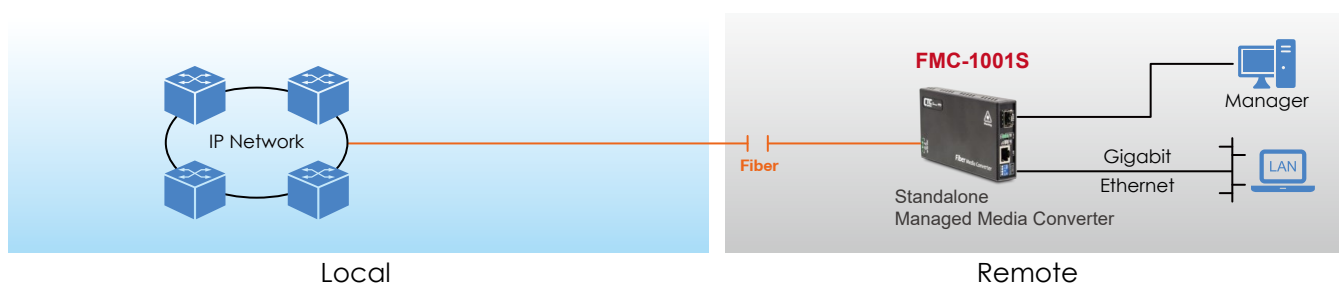
Ordering Information

Model Name	Description
FMC-1001S	10/100/1000Base-T to 100/1000Base-X SFP media converter with adapter, plastic case
FMC-1001S-AC	10/100/1000Base-T to 100/1000Base-X SFP media converter with AC power, plastic case
FMC-1001S-AC-M	10/100/1000Base-T to 100/1000Base-X SFP media converter with AC power, metal case

Optional Accessory

Model Name	Description
WMK01	Single unit wall mounting kit

■ Wall-Mounting Kit

WMK01

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Compact Media Converter FMC-1001S

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