

#### Media Converter Type:

Speed: ☐10/100M ☐10/100/1000M

Fiber: ☐Single Fiber ☐Dual Fiber

Mode: ☐Singlemode ☐Multimode

Distance: ☐550m ☐2km ☐10km ☐20km  
☐40km ☐60km ☐80km ☐100km

Interface: ☐FC ☐SC ☐ST

Wavelength: ☐850 ☐1310 ☐1550 ☐Tx1310/Rx1550  
☐Tx1550/Rx1310

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#### Features:

- Compliant with IEEE802.3 10Base-T, and IEEE802.3u 100 Base-TX/FX, IEEE802.3ab, IEEE802.3E standards
- Support auto-negotiation function in TP port to detect speed (10/100M, 10/100/1000M) and duplex mode (full/half) automatically
- Support auto uplink(auto MDI/MDI-X) in TP port, no more cross-over cable
- Extend fiber-optic distance up to 100km with single-mode fiber
- Provide various fiber-optic interfaces with SC/FC/ST connectors
- Mountable in the converter chassis

#### Setting of Media Converter

Our media converter has DIP switch as follows:



Set with DIP switch

Set RJ45 port in full duplex/half duplex or auto-negotiation

Set RJ45 port at 10Mbps, 100Mbps or 10/100Mbps

The DIP switch in front panel is marked 1-6 from left to right, the definition of the setting is as below

1	2	3	Function
OFF	OFF	OFF	Auto-negotiation(default setting)
ON	OFF	OFF	Compelling 100M full duplex
ON	OFF	ON	Compelling 100M half duplex
ON	ON	OFF	Compelling 10M full duplex
ON	ON	ON	Compelling 10M half duplex
4,5-mode setting			
4-OFF 5-OFF, store-and-forward mode(default setting)			
4-ON 5-OFF, straightforward mode			
6 . LFPT function : ON-open ; OFF-close			

Notice: when start up LFPT function, please pay attention to set the DIP switch 6 to "ON" firstly, then power on the product.

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#### Copyright statement

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#### FCC warning

The media converter have been tested and found to comply with the regulations for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when these devices are operated in a commercial environment. These devices can use, generate and radiate radio frequency energy and may cause harmful interface to radio communications unless installed in accordance with this User's Guide. Operation of this device in a residential area is likely to cause harmful interference which will make the user responsible for the appropriate remedial action at his/her own expense.

#### CE mark Warning

These are Class A products. In a domestic environment these products may cause radio interference, in which case the user will need to consider adequate preventative measures.

#### Package Content

Thank you for purchasing our Ethernet Media Converter. Before you start installing the Media Converter, verify the following items in the package

- Media Converter
- User's Manual
- Power Adapter

#### Overview

The Media Converter makes it possible to mix network media to optimize total cost of ownership when you are extending legacy twisted-pair network to a fiber-optic backbone. It is primarily designed for larger and higher bandwidth demanding workgroups that require expansion of the Ethernet network. The media Converter features a RJ45 jack and an SC/FC/ST fiber optic connectors, connecting the 10/100Mbps network to the 100BASE-FX (fiber optic) network. At full duplex mode, the converter can extend distance up to 2 kilometers for Multi-mode fiber and up to 100 kilometers for Single-mode fiber., maximize conversion options and network design flexibility

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#### Physical Description

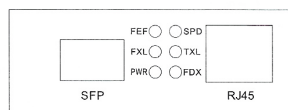
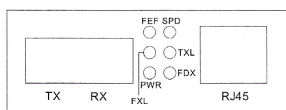
##### Specifications

Standards	IEEE802.3,802.3u, 802.3x, 802.3ab, 802.3E	
Interface		
RJ45 Port	10/100BaseT(X) 10/100/1000BaseT(X)	
Fiber Port	100BaseFX/1000BaseFX(SC,ST,FC connectors available)	
LED Indication	FEF FXL PWR TXL SPD FDX	
Fiber Optics		
	Single mode	Multimode
Distance	5~100km	500m~2km
Wavelength	1310nm 1550nm optional	850nm 1310nm optional
Fiber Interface	SC FC ST optional	SC FC ST optional
Power		
Input Voltage	Input: 100~240V AC 50~60Hz Output: DC+5V	
Temperature		
Operating Temp	0~70℃	
Storage Temp	-40~85℃	
Humlidity	10%~90% non-condensing	
Mechanical		
Dimension	94*70*26MM(L*W*H)	
Weight	380g	

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## LED Indication

Please refer to the following table for LED indication of FMC Series



LED	Status	Indication(10/100M)	Indication(10/100/1000M)
FEF	On	A valid network connection established on Fiber port	A valid network connection established on Fiber port
	Off	fiber link error	fiber link error
FXL	Flashing	Transmitting or receiving data	Transmitting or receiving data
	Off	Transmitting or receiving data error	Transmitting or receiving data error
SPD	On	A valid network connection established on TP port	A valid network connection established on TP port
	Off	Connection speed with 10Mbps	Connection speed with 100Mbps
TXL	Flashing	Transmitting or receiving data	Transmitting or receiving data
	Off	Transmitting or receiving data error	Transmitting or receiving data error
FDX	On	Connection in full duplex mode	Connection in full duplex mode
	Off	Connection in half-duplex mode	Connection in half-duplex mode
PWR	On	The Power is on	The Power is on
	Off	The Power is off	The Power is off

## Installation

As with any electric device, you should place the equipment where it will not be subject to extreme temperatures, humidity, or electromagnetic interference. Specifically, the site you select should meet the following requirements: Please follow the steps to install the media converter. This Converter is a plug-and-play device.

1. Turn off the power of the device/station in the network in which the media converter will be installed.
2. Ensure that there is no activity in the network.
3. Attach fiber cable from the media converter to the fiber network. The fiber connections must be Matched-Transmit socket to receive socket
4. Attach a UTP cable from the 100Base-T network to the RJ-45 port on the product
5. Connect the power cord to the media converter and check if the power LED lights up. The SPD Link and FEF link LED will light when all the cable connections are satisfactory.
6. Turn on the power of the device/station.