

Preface

This manual describes how to install and use the Fast Ethernet Media Converter. The Converter introduced here provides one channel media conversion between 100Base-TX and 100Base-FX.

The Converter fully complies with IEEE802.3u 100Base-TX/FX standards.

In this manual, you will find:

- Product overview
- Features on the media converter
- Illustrative LED functions
- Installation instructions
- Specifications

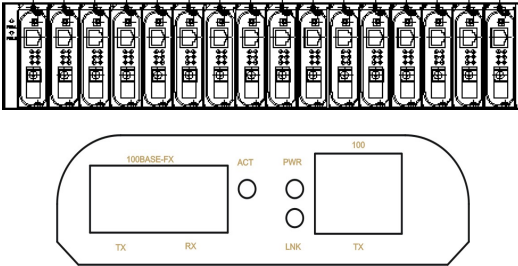
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Introduction

The media converter provides one channel for media conversion between 100Base-TX and 100Base-FX. It can be used as a stand-alone device or with a standard 19" chassis as shown below.

Product Overview



<NOTE> The chassis is to be ordered separately.

Product Features

- One-channel media conversion between
- 100Base-TX and 100Base-FX
- Fiber media allows:
 - Multi-mode fiber using SC, ST, VF-45 or MT-RJ connector
 - Single-mode fiber using SC or ST connector
 - WDM single-fiber (bi-direction) transceiver: Single-mode WDM fiber using SC connector:
 - ◆ A type: WDM single-fiber (bi-direction) transceiver transmits with 1310nm wavelength and receives with 1550nm wavelength
 - ◆ B type: WDM single-fiber (bi-direction) transceiver transmits with 1550nm wavelength and receives with 1310nm wavelength
- Support full and half duplex mode on TX port
- Support AUTO-MDIX on TX port
- Support Link-Fault-Pass-Through
- 768K bits buffer memory
- Full wire-speed forwarding rate
- Front panel status LEDs
- Used as a stand-alone device or with a chassis
- Hot-swappable when used with a chassis

Packing List

When you unpack this product package, you will find the items listed below. Please inspect the contents, and report any apparent damage or missing items immediately to our authorized reseller.

- The Media Converter
- User's Manual
- AC to DC Power Adaptor

One-Channel Media Converter

Ports

The Converter provides one TX port and one FX port. For the FX port, it provides options of

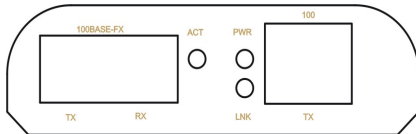
Multi-mode fiber using SC, ST, VF-45, MT-RJ or LC connector or

Single-mode fiber using SC or ST connector or

WDM fiber using single SC connector

For the TX port, it uses RJ-45 connector.

Front Panel & LEDs



LED Indicators

The LED indicators give you instant feedback on status of the converter:

LEDs	State	Indication
Power	Steady	Power on
	Off	Power off
LNK	Steady	Connection at the speed of 100Mbps
	Off	No connection at the Speed of 100Mbps
ACT	Steady	A valid network connection established
	Flashing	Transmitting or receiving data
	Off	Neither valid network connection nor transmitting/ receiving data

Installation

This chapter gives step-by-step installation instructions for the Converter.

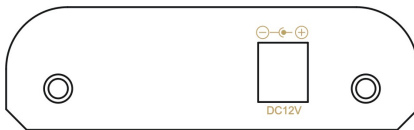
Selecting a Site for the Equipment

As with any electric device, you should place the equipment where it will not be subjected to extreme temperatures, humidity, or electromagnetic interference. Specifically, the site you select should meet the following requirements:

- The ambient temperature should be between 32 and 113 degrees Fahrenheit (0 to 45 degrees Celsius).
- The relative humidity should be less than 95 percent, non-condensing.
- Surrounding electrical devices should not exceed the electromagnetic field (RFC) standards for IEC 801-3, Level 2 (3V/M) field strength.
- Make sure that the equipment receives adequate ventilation. Do not block the ventilation holes on each side of the equipment.
- The power outlet should be within 1.8 meters of the equipment.

Connecting to Power

- This Converter is a plug-and-play device.
- Connect the supplied AC to DC power adaptor to the receptacle on the rear panel of the converter, and then attach the plug into a standard AC outlet.



Installing in a Chassis

The Converter can be fit into any of the expansion slots on a special designed chassis.

- First, install the converter onto a carrier supplied with the chassis:
Step 1- Unscrew the carrier from the desired expansion slot on the chassis.
Step 2- Fit the converter onto the carrier.
 - When the converter is completely seated onto the carrier, insert the carrier to the guide rails of the expansion slot.
 - Carefully slide in the carrier until it is fully and firmly fit the chassis. Fasten the screws on the carrier.
- <NOTE> Never insert any converter into the chassis directly without using the supplied carriers. The carriers allow secure and consistent placement of the converters into the chassis' backplane without causing any damage.

Specifications

Applicable Standards	IEEE 802.3u 100Base-TX & 100Base-FX
Fixed Ports	1 TX port, 1 FX port
Speed – 100Base-TX/FX	100/200Mbps for half/full-duplex
Forwarding rate	148,810pps for 100Mbps
LED Indicators	Per Unit- (1 LED): Power
	LNK (1 LED) ACT (1 LED)
Dimensions	80.3mm (W) x 109.2mm (D) x 23.8mm (H) (3.16" (W) x 4.30" (D) x 0.94" (H))
Weight	150g (0.33lb.)
Power	External power adaptor 0.16A @ 12VDC
Power Consumption	1.92W Max.
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-10°C ~ 70°C (14°F ~ 158°F)
Humidity	5 ~ 95%, non-condensing
Emissions	FCC Part 15 Class A, CE Mark Class A