Preface

This manual describes how to install and use the Fast Ethernet media converter. The Converter introduced here provides one channel of media conversion between 100BASE-FX Multi-Mode and 100BASE-FX Single-Mode.

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

In this manual, you will find:

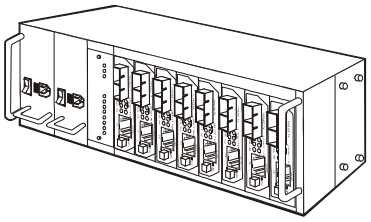
- Product overview
- Features on the media converter
- Illustrative LED functions
- Installation instructions
- Specifications

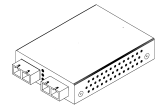
Table of Contents

Introduction

The media converter provides one channel for media conversion between 100BASE-FX Multi-Mode and 100BASE-FX Single-Mode. 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-FX Multi-Mode and 100BASE-FX Single-Mode
- Fiber media allows: multi-mode fiber using SC, ST, VF-45 or MT-RJ connector; single-mode fiber using SC connector
- Store-and-forward mechanism
- Full wire-speed forwarding rate
- Back-pressure & IEEE802.3x compliant flow control
- 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.

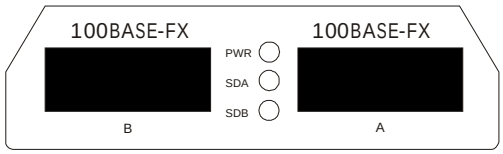
– The Media Converter
– User's Manual
– AC to DC Power Adaptor

One-Channel Media Converter

Ports

The Converter provides one 100FX Multi-Mode (Port B) and one 100FX Single-Mode (Port A). For the FX port, it provides options of either multi-mode or single-mode fiber and a wide range of connectors.

Front Panel & LEDs



Front Panel of the Media Converter

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

LEDs	State	Indication
Power	Steady	Power on
	Off	Power off
SDA	Steady	A valid network connection is established
	Off	No connection is established
SDB	Steady	A valid network connection is established
	Off	No connection is established

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 104 degrees Fahrenheit (0 to 40 degrees Celsius).
- The relative humidity should be less than 90 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 switch or the fan exhaust port on the si de or rear of the equipment.
- The power outlet should be within 1.8 meters of the switch.

Connecting to Power

Ÿ This Converter is a plug-and-play device.

Ÿ 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 with a voltage range from 100 to 260 Vac.

Installing in a Chassis

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

Ÿ First, install the converter onto a carrier supplied with the chassis:

Step 1- Unscrew the carrier from the desired expansion slot on the chassis.

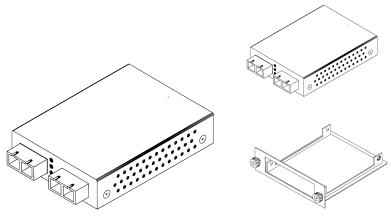
Step 2- Remove the four screws on the converter as shown below.

Step 3- Fit the converter onto the carrier and use those four screws to secure it.

Ÿ When the converter is completely seated onto the carrier, insert the carrier to the guide rails of the expansion slot.

Ÿ 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.



Remove and retain these four screws (top & bottom)

Specifications

Applicable Standards	**IEEE 802.3u 100BASE-TX & 100BASE-FX**
Fixed Ports	**1 100BASE-FX Multi-Mode Port (Port B)** **1 100BASE-FX Single-Mode Port (Port A)**
Speed – 100BASE-FX	**100/200Mbps for half/full-duplex**
Switching Method	**Store-and-Forward**
Forwarding rate	**148,800pps for 100Mbps**
LED Indicators	**Per Unit- (1 LED): Power**
	Per Port- (1 LED): SDA (or SDB)
Dimensions	**L110 × W81 (max.) × H23 mm**
Weight	**150 g**
Power	**External power adaptor** **9 ~ 20 VDC; 600mA**
Power Consumption	**5W Max.**
Operating Temperature	**0°C ~ 40°C (32°F ~ 104°F)**
Storage Temperature	**-25°C ~ 70°C (-13°F ~ 158°F)**
Humidity	**10 ~ 90%, non-condensing**
Emissions	**FCC part 15 Class A, CISPR Class A,** **VCCI Class A, CE Mark**

Safety	UL

Ordering Information

Please include the following information when ordering:

1. fiber type: multi-mode or single-mode
2. fiber connector type: SC, ST, MT-RJ or VF-45
3. segment distance range for the fiber port

FX port		
Connector Type	Cabling	Segment Distance
SC	Multi-Mode Fiber	Max. 2 km
ST	Multi-Mode Fiber	Max. 2 km
MT-RJ	Multi-Mode Fiber	Max. 2 km
VF-45	Multi-Mode Fiber	Max. 2 km
SC	Single-Mode Fiber	Max. 15 km
SC	Single-Mode Fiber	Max. 40 km
SC	Single-Mode Fiber	Max. 75 km