D-Link®

1000BASE-TX to
1000BASE-SX/LX
Media Converter

User's Guide

Rev. 01 (JUN. 2002)

Printed In Taiwan

RECYCLABLE

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INTRODUCTION

Thank you for choosing the 1000Base Gigabit Ethernet Media Converter, The Converter introduced here provides one channel media conversion between 1000BASE-TX and 1000BASE-LX/SX.

About Media Converter

Media Converter is a network technology specified by IEEE 802.3ab and IEEE 802.3z 1000BASE-TX/FX standards.

PRODUCT FEATURES

- One-channel media conversion between 1000BASE-TX and 1000BASE-SX/LX
- Fiber media allows: multi-mode fiber and single-mode fiber using SC connector
- Link Pass Through function
- Auto negotiation of duplex mode on TX port
- Auto MDI/MDI-X for TX port
- 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
-

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:

1. The ambient temperature should be between 32 and 104 degrees Fahrenheit (0 to 40 degrees Celsius).
2. The relative humidity should be less than 90 percent, non-condensing.
3. Surrounding electrical devices should not exceed the electromagnetic field (RFC) standards for IEC 801-3, Level 2 (3V/M) field strength.
4. 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 side or rear of the equipment.
5. The power outlet should be within 1.8 meters of the switch.

Connecting to Power

1. This Converter is a plug-and-play device.
2. Connect the supplied AC to DC power adaptor with a power voltage of 7.5Vdc/1.5Amp to the DC-Jack on the converter, and then attach the plug into a standard AC outlet.

ATTENTION! **Please be sure that the other end will be connected to a switch that set to Full Duplex (forced mode)**

Installing in a Chassis

The Converter can be fit into any of the expansion slots on a special designed chassis.
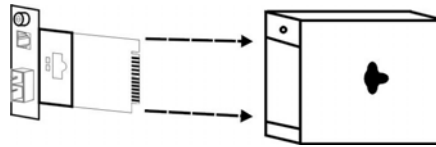
• First, install the converter onto a carrier supplied with the chassis:

Step 1- Unscrew and pull out the media converter board.

Step 2- Plug in the media board to any of the vacant slot.

Step 3- Fit the converter onto the carrier and use the screw to secure it.
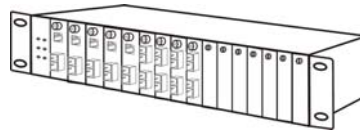
LED Indicator

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

PWR○   ○LINK/ACT

LEDs	State	Indication
Power (PWR)	Steady	Power on
	Lights off	Power off
LINK/ACT	Lights on	Linking
	Lights off	Not Linking

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Link Pass Through Function
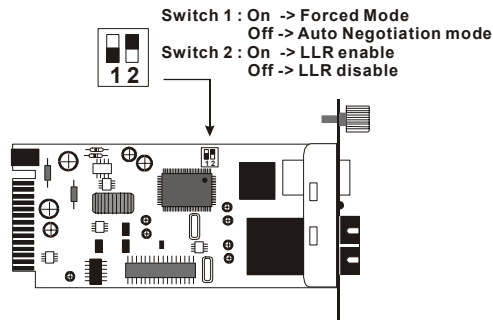
LLCF (Link Loss Carry Forward)
When a device connected to the converter and the TP line loss the link, the converter's fiber will disconnect the link of transmit, so that the other ends will know that there is a linkage error on this end. And when the Fiber line loss the link, the converter's TP will disconnected, and the other end will know that there is linkage problem exist.

There is a default LLCF setting on this converter.

LLR (Link Loss Return)
When a device connected to the converter and the fiber line loss the link, the converter's fiber will disconnect the link of transmit.

There is a switch to enable or disable the function of the media converter.

Switch 1 : On -> Forced Mode
Off -> Auto Negotiation mode
Switch 2 : On -> LLR enable
Off -> LLR disable

1 2

Switch

There is a two pin DIP switch on the module which define as switch 1 and switch 2:
Switch 1: Fiber mode switch
   When the switch was turned to "On", it means that the

fiber was turned to forced mode, and "Off" for auto-negotiation mode.

Note: Be sure the opposite end is using the same setting(forced or Auto-negotiation). And when using two converters at the same time, the two converters MUST set to forced mode.

Switch 2: LLR

When the switch was turned to "On", it means that the LLR was enabled and "Off" for disabled.

Note: When using two converters at the same time, then only one converter need to enable the LLR function.

SPECIFICATIONS

Standards:	IEEE802.3ab 1000BASE-TX
	IEEE802.3z 1000BASE-SX/LX
Data Transfer Rate:	1488000pps for 1000Mbps
Duplex Mode:	Full Duplex Mode
LED indicators:	PWR, LNK/ACT
Media Interface:	RJ-45, SC
EMI Compatiblity:	FCC Class B
	CE Certification, Class B
	VCCI Class B
Temperture:	Storage: -10°C ~ 70°C
	Operating: 0°C ~ 40°C
Humidity:	10% ~90% non-condensing
Power Consumption:	5.5 Watts (maximum)

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