Appendix Specifications

- **Standard**: IEEE 802.3 / EEE 802.3u
- **Connector**: 1 SC /ST FC fiber optic;
  1 RJ45 jack
- **Max. Distance**: Twisted pair (cat5): 100m
  Multi-mode fiber optic: 2KM
  Single-mode fiber optic:
  20/40/60/80/120KM
- **Temperature:** Operation: -10 to 50℃
- **Storage**: -40 to 70℃
- **Humidity**: 10%-90%(non-condensing)
- **Dimensions**:

External Power: 94*70*26mm (L*W*H)

Outside Power: 140*110*30mm (L*W*H)

Fiber Optic Information:

Fiber Optic Retail:

Connector Type	SC/ST	SC/ST/FC
Fiber Type	Multi Mode	Single Mode
Wavelength	850/1310nm	1310nm
Typical Distance	2KM	25KM
Min TX PWR	-18.0dBm	-15.0dBm
Max TX PWR	-10.0dBm	-7.0dBm
Sensitivity	-30.0dBm	-33.0dBm
Link Budget	12.0dBm	17.0dBm

Connector Type	SC/ST/FC	SC/ST/FC
Fiber Type	Single Mode	Single Mode
Wavelength	1310nm	1310nm
Typical Distance	40KM	60KM
Min TX PWR	-10.0dBm	-5.0dBm
Max TX PWR	-3.0dBm	0dBm
Sensitivity	-33.0dBm	-35.0dBm
Link Budget	23.0dBm	30.0dBm

User's Guide

Fast Ethernet Media Converter

level one

Introduction

The 10/100Mbps Fast Ethernet converter media tesbetween a 10/100 Base-TX segment and a 100Base-FX segment. It is primarily designed for large, more higher speed/bandwidth demandingworkgroups that require expansion of the Fast Ethernet network.

Package Contents

Before start using the products, make sure that What you have is what you ordered:

The Converter includes:

- Fast Ethernet Media Converter
- Power Adapter
- User's Guide
- Quick Installation Guide
- Declaration of Conformity

Features

- Complies with 802.3u 10/100 Base-TX and 100 Base-FX standards.
- Provide one SC fiber connector and one UTP Connector.
- Auto-detection of half/full duplex transfer mode for TX port.
- Auto-negotiation of 10/100Mbps rate and Auto-Crossover for TX port.
- Provide switch configuration of half / full duplex transfer mode for the FX port.
- Extend fiber distance up to 2KM for multi -mode fiber and 20-120KM for the Single Mode fiber.
- Easy-to –view LED indicators provide status to monitor network activity easily.

Appearance Indication

LED indicators

This converter has LED indicators which can provide a real time report. When you take a look at these indicators, you will know what's happening on your network.

LED	Color	Function
FX 100	Green	Lit when 100 Base-FX operation.
FX Link / ACT	Green	Lit when fiber cable connection with remote device is good. Blinks when any FX traffic is present.
Power	Green	Lit when +5V power is available
FDX / Col	Green	Lit when Full Duplex Mode is enable. Blinking when collision is present.
FX 100	Green	Lit when 100Base-TX operation.
FX Link / ACT	Green	Lit when TP cable connection with remote device is good. Blinks when any TX traffic is present.

Installation Procedure

1. Converter to 10/100 Base-TX Device (hub or switch) connection.

* Make sure that the length of twisted pair cable (category-5) between 10/100Base-TX device and converter is no longer than 100 meters.

*Connect one end of twisted pair cable to RJ45 jack on the converter and the other end of the cable to the RJ45 jack on the 10/100 Base-TX device.

2. Converter to Converter or 100Base-FX Device Connection connect one(SC)end of a fiber cable to the SC connector on the converter end of the cable to the SC connector on the other converter or 100Base-FX device.3. Turn on the power.

Notice:

The WDM Converter A is SC fiber connector works at 1550nm on transferring data and at 1310nm on receiving data in one Single Mode fiber.

The WDM Converter B is SC fiber connector, Inversely, works at 1310nm on transferring data and at 1550 nm on receiving data in a fiber. So the WDM Converter A and the WDM Converter B must use as partnership together.