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FCC Warning

The OPTOLINX GIGABIT MEDIA CONVERTER has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These standards are designed to provide reasonable protection against harmful interference when this device is operated in a commercial environment. This device generate, use, and can radiate radio frequency energy and may cause harmful interference 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 in which cases the user is responsible for taking appropriate remedial action at his/her own expense.

CE Mark Warning

This is class A products. In a domestic environment this product may cause radio interference in which case the user will need to consider adequate preventative methods.

Checklist

The carton should contain the following items:

- OPTOLINX GIGABIT MEDIA CONVERTER
- User's guide

Please notify your sales representative immediately if any items are missing or damaged.

1. Overview

The OPTOLINX GIGABIT MEDIA CONVERTER is designed to meet the massive needs for Gigabit network deployment. This solution allows users to extend a copper based Gigabit network via fiber cable to a maximum distance up to 30KM.

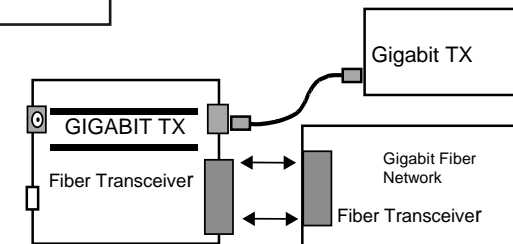
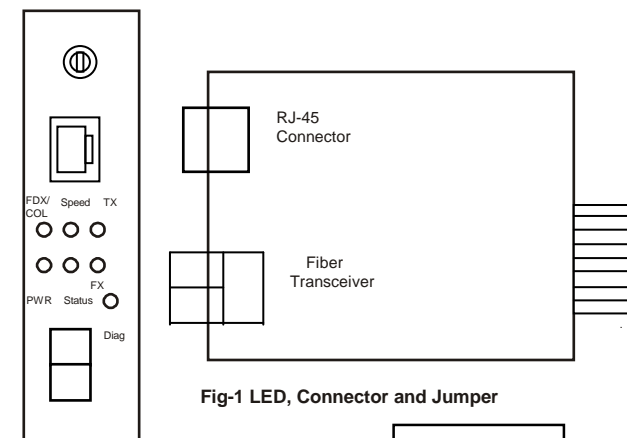
The OPTOLINX GIGABIT MEDIA CONVERTER is fully compliant with IEEE802.3z & 802.3ab standards. It can be installed into a series of FCM-CHS2 Converter Chassis. The installation & operation procedures are simple & straightforward. Operation status can be locally monitored through a set of Diagnostic LED located in the front panel; or - if installed within a Management Chassis, via network management system remotely.

Features

- 100Base-TX and IEEE 802.3ab
10/100/1000Base-TX to 1000Base-FX
Converter
- Standard : IEEE 802.3z, 802.3ab & 802.3u
- Store and Forward Switching Mechanism
- Supports 256K Byte Packet Buffer
- Supports Loop Back and Diagnostic Test
- Interface: 1 * RJ-45 connector
1 *SX.LX Fiber Optic SC
- MDI/MDIX Auto-Crossover supported
- LED: Power , Status, FDX ,Speed
TP Link/ACT, FO Link /ACT
- Plug-and-Play installation
- Supports SNMP proxy

3. Installation

- Remove the Converter Chassis front panel protective plate from the selected installation slot.
- Carefully slide the converter module into the Converter Chassis and ensure the converter golden finger connection with the socket, and rotate the OPTOLINX GIGABIT MEDIA CONVERTERBTFX bracket screw into the Converter Chassis
- Attach fiber cable from the OPTOLINX GIGABIT MEDIA CONVERTERBTFX fiber port to the fiber network. The fiber connections must be matched – transmit socket to receive socket.
- Attach a UTP cable from the 1000Base-TX network to the RJ-45 port on the OPTOLINX GIGABIT MEDIA CONVERTERBTFX
- Check if the Power LED lights up. The TP Link and FX Link LED will both light up when all the cable connections are satisfactory.



4. LED Description

LED	Color	Function
Power	Green	Lit when power is available
TX/Link ACT	Green	Lit when TP cable connection with remote device is good
FX/Link ACT	Green	Lit when Fiber cable connection with remote device is good
FDX/COL	Green	Lit when TP works in Full Duplex mode
Status	Green	Lit when Local or Remote Fiber Link is O.K. Blinking when testing success
	Orange	Lit under below condition: Remote/ Local FX/TX port link down
		Connect device 3312 series Blinking when testing failure
10/100 /1000M	Green	Lit when TP link in 100M
	Orange	Lit when TP link in 1000M

Notice: Due to IC special specification the FX/Link/Act LED keep flashing while port link down in most cases.

5. Technical Specifications

Standards	IEEE 802.3z, 802.3ab ,802.3u
Interface	1 X RJ45 connector 1 X SC connector
Diagnostic LED	Power, FDX, Speed (1000/100/10) TP Link, FO Link, Status
Power Consumption	3.7W
Dimensions	119mm(W) X 86mm(D) X 25(H) mm
Shipping Weight	1LB
Temperature	Operating: 0 ~ 40 °C Storage: -20 ~ 60 °C
Humidity	5% ~ 90% RH
Emission	EMI: FCC / CE Class A
Media	TP EIA/TIA-568 Cat 5e, 100M Multimode Fiber 50/125, 62.5/125um multimode fiber Single-mode Fiber 9/125, 10/125um single-mode fiber

6. Configuration

The OPTOLINX GIGABIT MEDIA CONVERTER supports configuration via the FCM-CHS2 Converter Chassis. It can configure Speed, Duplex, Auto. Please refer to the FCM-CHS2 Converter Chassis for the detail information.

7. DIP Switch

Pin	Function	Description	
Pin 1	TP Auto-Negotiation	On	Enable
		Off	Disable
Pin 2 Pin 3	TP Speed	Pin2:Off Pin3:Off	10M
		Pin2:On Pin3:Off	100M
		Pin2:Off Pin3:On	1000M
		Pin2:On Pin3:On	1000M
Pin 4	TP Duplex	On	Full
		Off	Half
Pin 5	Flow Control	On	Enable
		Off	Disable
Pin 6	FIB Auto-Negotiation	On	Enable
		Off	Disable

Default is set to **ON** from PIN 1 to PIN 6

Please perform Power On reset after modifying the Dip Switch setting and firmware update

8. Diagnostic

The OPTOLINX GIGABIT MEDIA CONVERTER built-in remote diagnostic function, when you link with the FCS-3312 under fiber cable. You can use the front panel diagnostic push button or FCM-CHS2 Converter Chassis management function to test remote module status.



FCM-3312SX

Gigabit Smart Diagnostic Media Converter

User's Guide

v1.6

