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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.

1. Checklist

The carton should contain the following items:
- OPTOLINX GIGABIT MEDIA CONVERTER
- AC Power Adaptor
- User's guide

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

2. 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. The installation & operation procedures are simple & straightforward. Operation status can be locally monitored through a set of Diagnostic LED located in the front panel.
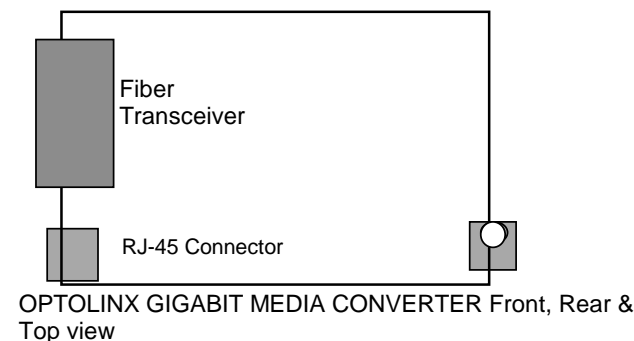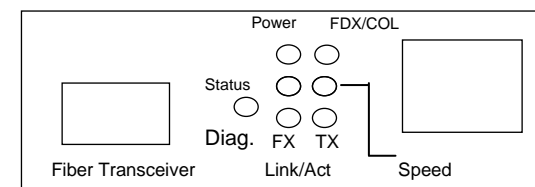
Features
- 100Base-TX and IEEE 802.3ab 10/100/1000Base-TX To 1000Base-FX Converter
- Standard : IEEE 802.3z, 802.3ab & 802.3u
- Store and Forward Switching Mechanism
- Supports 256K Byte Packet Buffer
- Supports Loop Back and Diagnostic Test
- Interface: 1 * RJ-45 connector
             1 *SX.LX Fiber 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

The installation procedure is simple and straightforward:
- Attach fiber cable from the OPTOLINX GIGABIT MEDIA CONVERTER SC connector to the fiber network.

- Attach a UTP cable from the OPTOLINX GIGABIT MEDIA CONVERTER RJ-45 connector to the copper network.

- Connect the power adapter to the OPTOLINX GIGABIT MEDIA CONVERTER and check that the Power LED lights up. The TP Link and FO Link LED will turn on when all the cable connections are satisfactory.

OPTOLINX GIGABIT MEDIA CONVERTER Front, Rear & Top view

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 Requirement DC12V
Power Consumption 4.2W
Dimensions 140mm x 78mm x 26mm(W x D x H)
Shipping Weight 2LB
Temperature Operating: 0 ~ 50 $^{\circ}$C
Storage: -20 ~ 60 $^{\circ}$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 FCM-3312 and FCM-CHS2 Converter Chassis. It can configured Speed, Duplex, Auto. Please refer to the FCM-CHS2 Converter Chassis for detailed information.

7. Diagnostic

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

Please perform Power On reset after firmware update.

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FCS-3312SX

Gigabit Smart Diagnostic Media Converter

User's Guide

v1.4

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