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FCC Warning

The Gigabit Ethernet 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 generates, uses, 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:

- Gigabit Media Converter
- AC-DC Power Adapter
- User's guide

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

2. Overview

Gigabit Media Converter is designed to meet the massive needs for Gigabit network deployment and able to extend a copper based Gigabit network via fiber cable.

Gigabit Media Converter is fully compliant with IEEE802.3,802.3u , 802.3ab & 802.3z standards. It can be installed into a FCU Converter RACK. 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

- 10/100/1000Base-T to 1000BASE-X Converter
- Standard : IEEE 802.3, 802.3u , 802.3ab &802.3z
- Interface: 1 x 10/100/1000Mbps RJ-45 LAN connector
  1 x 1000Mbps F/O port or SFP slot

  Auto-Negotiation in TP port
- MDI/MDIX Auto-Crossover supported
- LED: Power, FDX, Status, Speed, FO Link/Act, TX Link/Act
- Plug-and-Play installation
- Support Link Alarm
- Support Jumbo Frame 9K Bytes (under 10,100,1000Mbps)

3. Installation

- Attach fiber cable from the Gigabit Media Converter to the fiber network. The fiber connections must be matched – transmit socket to receive socket.
- Attach a UTP cable from the 10/100/1000BASE-T network to the RJ-45 port on the Gigabit Media Converter
- Connect the power adapter to the Gigabit Media Converter and check that the Power LED lights up. The TP Link/Act and F/O Link/Act LEDs will light up when all the cable connections are satisfactory.

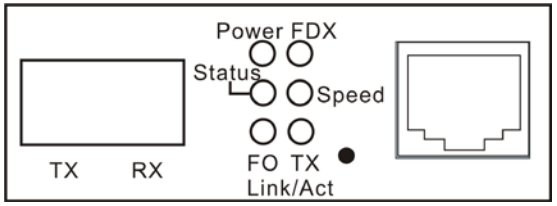


Fig. 1 Dual fiber Front Panel

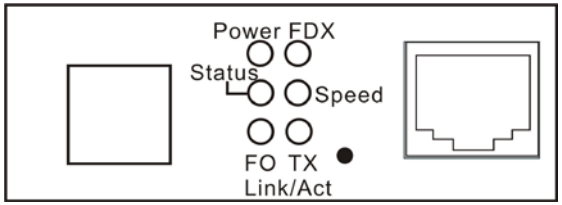


Fig. 2 WDM & SFP Front Panel

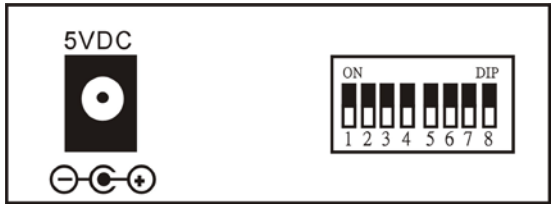


Fig. 3 Rear Panel

4. LED Description

LED	Color	Function
Power	Green	Lit when power is available
TP/Link Act	Green	Lit when TP cable connection with remote device is good. Blink when TP traffic is present
FO/Link Act	Green	Lit when Fiber cable connection with remote device is good Blink when F/O traffic is present
FDX	Green	Lit when TP work in Full-Duplex No-Lit when TP work in Half-Duplex
Speed	Green	No-Lit when TP work in 10M or No Link Lit when TP work in 100M
	Orange	Lit when TP work in 1000M
Status	Green	Lit when TP and F/O link up
	Orange	Lit when TP or F/O link down

5. Technical Specifications

Standards : IEEE 802.3, 802.3u, 802.3ab, 802.3z

Interface: 1 X 10/100/1000 RJ-45 connector
1 X 1000 F/O port or SFP Slot

Operation LED: Power , TP/Link Act, FO/Link Act
FDX, Speed , Status

Power: I/P AC 100-240V

O/P DC 5V, 1.6A

Power Consumption: 3W

Shipping Weight: 0.6KG

Dimensions: 71mm(W) X 94mm(D) X 26 mm(H)

Temperature : Operating: 0 ~ 50 ^{o}C
Storage: -20 ~ 60 ^{o}C

Humidity: 5% ~ 90% RH

Emission: Electrical: UL, CSA
EMI: FCC Class A, CE

*For further reports, please contact us for update

Media:

TP EIA/TIA-568 Cat 5E, 1000M
Fiber 50/125, 62.5/125um multimode fiber
9/125, 10/125um single-mode fiber

6. DIP SWITCH Setting

Default PIN 1 , PIN 6 ON

Pin NO.	Function	OFF	ON
1	TP Auto-Negotiation	Disable	Enable
2	Manual TP speed	10M	100M
3	Manual TP speed	N/A	1000M
4	Duplex mode	Half	Full
5	Flow Control	Disable	Enable
6	F/O mode	Force	Auto
7	Link Alarm	Disable	Enable
8	Transmission mode	Store and forward	Pass-through

Note:

Before change TP speed , duplex mode and flow control setting , please make sure PIN 1 set to OFF, and under manual TP speed set to 10M or 100M.
PIN 3 needs set to OFF.
The 1000Mbps support full duplex mode only.

When Pin8 set to ON the TP speed force to 1000M, full duplex and flow control disable.

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FCU-3002A

Gigabit Smart Diagnostic Converter

User's Guide

v0.93

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