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FCC Warning

The 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 which will make the user responsible for the appropriate remedial action at his / her own expense.

CE Mark Warning

These is a Class A product. 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 package should contain the following items:

- Converter
- AC-DC Power Adapter
- User's Guide

Please notify your sales representative immediately if any item is missing or damaged.

2. Overview

This converter is designed to meet the massive needs for Gigabit network deployment and able to extend a copper based Gigabit network via fiber cable to a maximum distance up to 80KM. It is fully compliant with IEEE802.3, 802.3u, 802.3ab and 802.3z standards. It can be installed into a Converter RACK. The installation and operation procedures are simple and straightforward. Operation status can be locally monitored through a set of Diagnostic LED located in the front panel.

Major Features:

- Auto-Negotiation in TX port
- MDI/MDIX Auto-Crossover supported
- Support Flow Control
- Support Link Alarm
- Support Jumbo Frame 9K bytes (under 10,100,1000Mbps)
- Store and Forward Switching Mechanism
- Support Auto & Force mode configuration

3. Installation

- Attach fiber cable from the 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 Converter.

- Connect the power adapter to the Converter and check that the Power LED lights up. The TX Link/Act and F/O Link/Act LEDs will light up when all the cable connections are satisfactory.

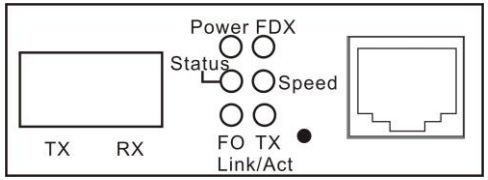

Figure 1. Front Panel of dual fiber model

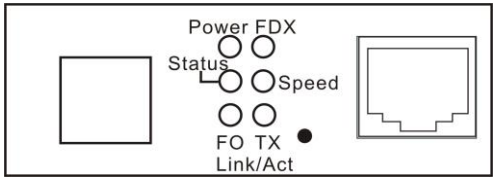

Figure 2. Front Panel of WDM fiber/SFP model

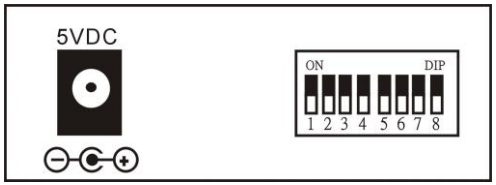

Figure 3. Rear Panel

4. DIP SWITCH Setting

The default setting for PIN 1 and 6 is ON. The rest of pins are OFF.

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	Reserved	-	-

NOTE:

1. Before changing TP speed, duplex mode and flow control setting, please make sure PIN 1 is set to OFF.
2. When TP speed is set to 10M or 100M manually, PIN 3 needs to be turned OFF.
3. Under 1000Mbps, it supports full-duplex mode only.

5. LED Description

LED	Color	Function
Power	Green	Power is available.
TX Link/Act	Green	TX cable connection with remote device is good.
	Blinking	TX traffic is present.
FO Link/Act	Green	Fiber cable connection with remote device is good.
	Blinking	F/O traffic is present.
FDX	Green	TX works in Full-Duplex.
	Off	TX works in Half-Duplex.
Speed	Off	TX works in 10M.
	Green	TX works in 100M.
	Orange	TX works in 1000M.
Status	Green	TX and F/O link is up.
	Orange	TX or F/O link is down.

6. 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
LED:	Power, FDX, Status, Speed, FO Link/ACT, TX Link/ACT
Power:	I/P AC 100-240V O/P DC 5V
Power Consumption:	2.2W
Shipping Weight:	0.6KG
Dimensions:	71mm(W)X94mm(D)X26mm(H)
Temperature:	Operating: 0º~50ºC Storage: -20º~60ºC
Humidity:	5%~90% RH
Certification:	FCC/CE Class A

*Please contact us for further reports and updates.

Media:

TP	EIA/TIA-568 CAT 5e, 1000M
Fiber	50/125, 62.5/125um multi-mode fiber 9/125, 10/125um single-mode fiber

Fiber Transceiver Information

1000M

Multi-Mode

TYPE	585688
Connector Type	SC
Wavelength	850nm
Typical Distance	500m
Min TX PWR	-9.5dBm
Max TX PWR	-4.0dBm
Sensitivity	-18.0dBm
Link Budget	8.5dB

NOTE: Specifications may change without prior notice

10/100/1000BASE-T to 1000BASE-X Standalone Media Converter

User’s Guide

Version 0.98

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