

## 5. Installing the Converter

5.1 For as a standalone unit:

5.1.1 Verify if the conforms to your country power requirement then insert the power plug

5.1.2 Check the type of UTP (see fig.3)

UTP complies with IEEE802.3 Standards, and has two types: T568A T568B.

G G O B B O P P    O O G B B G P P

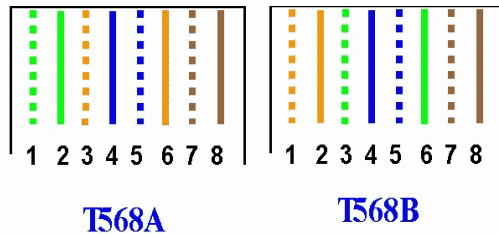


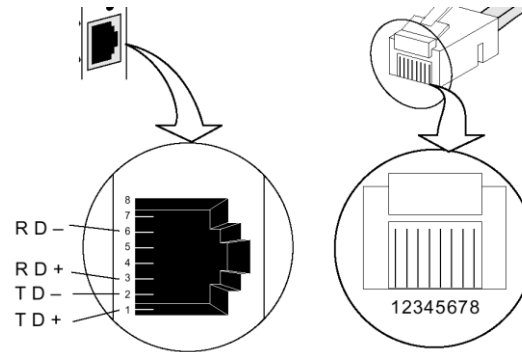
Fig.3 The type of UTP

NOTE: **G**: Green; **O**: Orange; **B**: Blue; **P**: Palm

**Parallel cable:** connect T568A to T568A , or T568B to T568B

**Crossing-over cable:** connect T568A to T568B

### 5.1.3 TP port list (Fig.4)



## 5.2 Installing

### 5.2.1 TP port installing

Media converter autodetect and connect the The parallel lines RJ-45 port or The cross lines the RJ-45 port.

### 5.2.2 Fiber port installing

Connect the fiber-optic transceiver on the media converter with the Single-mode SC fiber connectors.

### 5.2.3 Connect to power

5.2.4 Check the appearance that converter instructions light If connection right, the PWR,FDX,1000,100,FX,TX is bright; Otherwise checking the Fiber port and TP port.

6.1 Let the fix screw loose first, then you may bring the module out, and you may use the module in my Rack Converter. The module is suit for Rack Converter.

**Note: Connecting to Router, Bridge or Switch, please refer to the device's Technical Manual.**

# 10/100/1000Base-T to 1000Base-SX/LX Ethernet Media Converter

## User's Manual

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## 1. Overview

The Media Converter complies with IEEE802.3, IEEE802.3u, IEEE802.3x Standards. It is designed to convert data signal between 10/100/1000Base-T and 10/100/1000Base-SX/LX fast Ethernet. It supports 10/100/1000Base-T and 10/100/1000Base-SX/LX applications. The data signal converted by such high performance media converter can be transmitted up to 120Km maximum by fiber-optical cable.

The Converter is equipped with two fiber optic connectors (One for transmitting-TX and another for receiving-RX) and one port suit for RJ-45 (both parallel and cross RJ-45). Six LED indicators are built-in for easy diagnosing and monitoring the status of power, Unshielded Twisted Paired (UTP) Link, UTP Activity, Fiber Link, Fiber Activity, Full duplex and data rates. It can be configured automatically for Full Duplex or Half Duplex operation.

It is compact, cost-effective, low dissipative, high reliable and stable. It can be used in standalone applications, or Rack-Mounted applications where multiple media converter can be inserted into a rack-mount chassis (Up 16 units), and allowing all the converters to be powered by a single internal power supply.

## 2. Specifications:

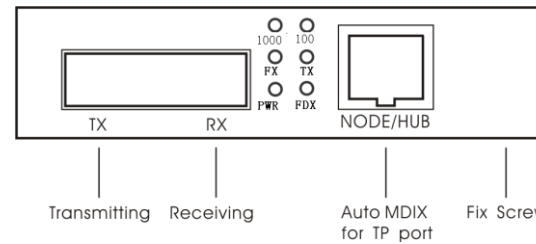
### 2.1 Performance introduction (Table 1)

Parameter	Type
Data rate (Mbps)	10/100/1000
Optical wavelength (nm)	850,1310, 1550(for over 60Km long distance)*
Fiber type( μ m)	Single mode 9/125* Multi-mode 50/125*
Connector type	SC/PC or ST/PC
Max distance (km)	20,40,60,100*
Power supply	2A,+5VDC±5%
Operating temperature	0~70°C
Storage temperature	-40~80°C
Relative humidity	5% to 90% non condensing

**Table 1: performance introduction**

\*Note: Please refer to Specifications.

### 2.2 Appearance (Fig.2 , Table 2)



**Fig.2 Front Panel**

LED	Color	Function
FX	Green	Lit when fiber connection is good Blink when fiber data is active
FDX	Green	Lit when full-duplex mode is active
TX	Green	Lit when TP connection is good, Blink when TP data is active
1000	Green	Lit 1000Mbps
100	Green	Lit 100Mbps
POW	Green	Lit when +5V power is coming up

**Table 2.LED performance**

## 3. AC Power input specifications

AC Input: 85~265VAC 50/60Hz

## 4. Check list

Before you start installing the Converter, verify the package contains the following:

- 1) The 1000Base-SX/LX Ethernet Media Converter -----× 1
- 2) The AC Power Plug -----× 1
- 3) This User's Manual -----× 1

Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.