

10/100M adaptive fast Ethernet optical media converter is a new product used for optical transmission via high-speed Ethernet. It is capable of switching between twisted pair and optical and relaying across 10/100 Base-TX and 100 Base-Fx network segments, meeting long-distance, high-speed and high-broadband fast Ethernet workgroup users' needs, achieving high-speed remote interconnection for up to 120 km's relay-free computer data network. With steady and reliable performance, design in accordance with Ethernet standard and lightning protection, it is particularly applicable to a wide range of fields requiring a variety of broadband data network and high-reliability data transmission or dedicated IP data transfer network, such as telecommunication, cable television, railway, military, finance and securities, customs, civil aviation, shipping, power, water conservancy and oilfield etc, and is an ideal type of facility to build broadband campus network, cable TV and intelligent broadband FTTB/FTTH networks.



## 1. Overview

### 2.1 Features

- In accordance with Ethernet standards IEEE802.3, 10/100Base-TX and 100Base-FX
- Supported Ports: SC for optical fiber; RJ45 for twisted pair
- Auto-adaptation rate and full/half-duplex mode supported at twisted pair port
- Auto MDI/MDIX supported without need of cable selection
- Up to 6 LEDs for status indication of optical power port and UTP port
- External and built-in DC power supplies provided
- 128 K's data buffer RAM
- Support for low-delay time pure data transmission and full/half-duplex flow control.
- Built-in watch-dog timer to monitor any error in internal data exchange



### **3.1 Operating Voltage**

AC 220V/ DC +5V

### **3.2 Operating Humidity**

Operating Temperature: 0°C to +55°C

Storage Temperature: -20°C to +70°C

Humidity: 5% to 90%

## **4. Quality Assurance**

MTBF > 100,000 hours;

## **5. Application**

### **5.1 Application Fields**

- For intranet prepared for expansion from 10M to 100M
- For integrated data network for multimedia such as image, voice and etc.
- For point-to-point computer data transmission
- For computer data transmission network in a wide range of business application
- For broadband campus network, cable TV and intelligent FTTB/FTTH data tape
- In combination with switchboard or other computer network facilitates for: chain-type, star-type and ring-type network and other computer networks

### **5.2 Application Industries**

Intelligent transport monitoring system, safety and security monitoring system, campus network, industrial monitoring (electric power, chemical industry, steel, oil, railway and water conservancy etc.); military monitoring (warehouse, guard and confidentiality etc.) TV program transfer system;

## **6. Remarks and Notes**

### **6.1 Instructions on Media Converter Panel**

Instructions on Front Panel

Identification for front panel of the transceiver is shown below:

#### **a. Identification of Media Converter**

TX - transmitting terminal; RX - receiving terminal;

#### **b. PWR**

Power Indicator Light – “ON” means normal operation of DC 5V power supply adaptor.

#### **c. 100M Indicator Light**

“ON” means the rate of the electric port is 100 Mbps, while “OFF” means the rate is 10 Mbps.

#### **d. LINK/ACT (FP)**

“ON” means connectivity of the optical channel; “FLASH” means data transfer in the channel; “OFF” means non-connectivity of the optical channel.

e. LINK/ACT (TP)

“ON” means connectivity of the electric circuit; “FLASH” means data transfer in the circuit; “OFF” means non-connectivity of the electric circuit.

f. SD Indicator Light

“ON” means input of optical signal; “OFF” means non input.

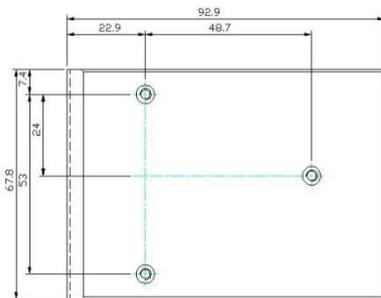
g. FDX/COL

“ON” means full duplex electric port; “OFF” means half-duplex electric port.

h. UTP

Non-shielded twisted pair port;

**6.2. Mounting Dimensions Sketch**



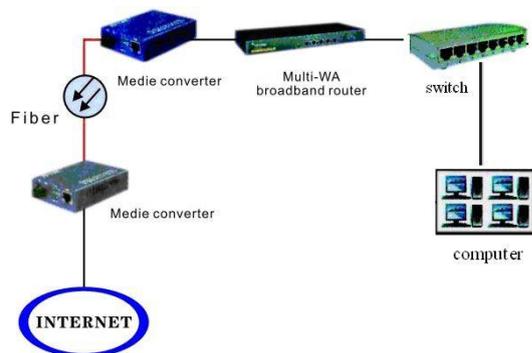
**6.3. Connection Sketch**

Instructions on Rear Panel

There is only a DC 5V external power port on the rear panel:



**6.2. Product Connection Diagram**



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