

User's Manual

2x10/100 Base-TX to 100 Base-FX Ethernet Bridge Media Converter

(Do not use until you read this manual carefully)



The Brightest Choice of Networking & Communication

Fiber/T Transceiver
MIGRATION TO HIGH SPEED NETWORKING

The Media Converter complies with IEEE802.3, IEEE802.3u, IEEE802.3x Standards. It is designed to convert data signal between 10/100 Base-TX and 100Base-FX fast Ethernet. It supports 10/100Base-TX and 100Base-FX applications. The data signal converted by such high performance media converter can be transmitted up to 60Km maximum by fiber-optical cable.

The Converter is equipped with one fiber optic connector (The same one connector for transmitting-TX and for receiving-RX) two auto sensing RJ-45 Jacks as switch function, one external power supply receptacle connected with AC-DC power adaptor.. Nine 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.

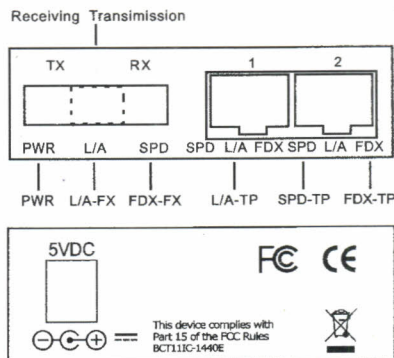
It is compact, cost-effective, low dissipative, high reliable and stable. It can be used in standalone applications, or Rack-Mounted applications where multiple media converter can be inserted into a rack-mount chassis (Up 16 units), and allowing all the converters to be powered by a single internal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

Performance introduction

Parameter	Type
Data rate (Mbps)	10/100
Optical wavelength (nm)	1310T/1550R* 1550T/1310R*
Fiber type (μ m)	Single mode 9/125
Connector type	SC/PC
Max distance (km)	20-25/40/60
Power supply	1A, +5VDC±5%
Operating temperature	0~70°C
Storage temperature	-40~+80°C
Relative humidity	5% to 90% non condensing
Size	92mm(L)x 71mm(W)x 26mm(H)

Transmission characteristics of single fiber transceiver

Products Model	Optical wavelength (nm)	Average Transmitting Optical power (dbm)	Receiving Sensitivity (dbm)	Saturability (dbm)
Single/SC/SM 20km	1310/1550 1550/1310	-12 dbm	<= -35	<= -3
Single/SC/SM 40km	1310/1550 1550/1310	-10 dbm	<= -35	<= -3
Single/SC/SM 60km	1310/1550 1550/1310	-6 dbm	<= -35	<= -3



Front/Rear Panel

LED performance

LED	Color	Function
L/A-FX	Green	Lit when fiber connection is good, Blink when fiber data is active
FDX-FX	Green	Lit when full-duplex mode is active
L/A-TP	Green	Lit when TP connection is good, Blink when TP data is active
SPD-TP	Green	Lit, 100Mbps; Non-light 10Mbps
FDX-TP	Green	Lit when full-duplex mode is active
PWR	Green	Lit when +5V power is coming up

DC Jack and AC-DC Switching Power Supply

The DC jack's central post is 2.5mm wide, it conforms to the DC receptacle (2.5mm) on the 19-inch Converter Rack slot or AC-DC Switching Power Supply.

AC-DC Switching Power Supply

AC Input: 85~265VAC 50/60Hz

DC Output: 1A, +5VDC

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

- 1) The 10/100Base-TX to 100Base-FX Ethernet Media Converter-----X1
- 2) The AC-DC Switching Power Supply--X1
- 3) This User's Manual-----X1

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

Installing the Converter

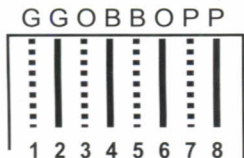
For as a standalone unit:

Verify if the AC-DC switching power supply conforms to your country AC power requirement then insert the power plug

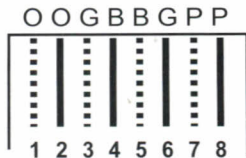
Check the type of UTP

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

UTP Type



T568A

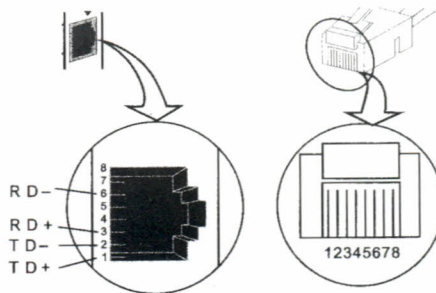


T568B

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



Installing

TP port installing

Connect RJ-45 port of media converter and other network device by UTP5 cable. There are 2 UTP port, both of which can be used at the same time as switch function. Each of them supports automatically connection of both parallel and cross cable.

Fiber port installing

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

Connect to AC/DC switching power supply Check the appearance that converter instructions light

If connection right, the PWR, L/A LED is bright;

Otherwise checking the Fiber port and TP port.

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