BRAUN GROUP - XTR1000-SFP

Gigabit Ethernet Bridge Media Converter

1. Overview

IEEE802.3z/ab 1000Mbps Gigabit Ethernet supports two Types media for network connection such as 10/100/1000Baset and 1000Base-SX/LX. The bridge media converter is designed with a switch controller and buffer memory that Connects two types segments to operate smoothly.

With Internal power unit and cooling fan, it provides good stability and reliability.IEEE802.3z/ab 1000Mbps Gigab

2. Checklist

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

_ The TP-Fiber Converter
_ AC-DC power Adapter or AC power cable
_ This User Manual

Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.
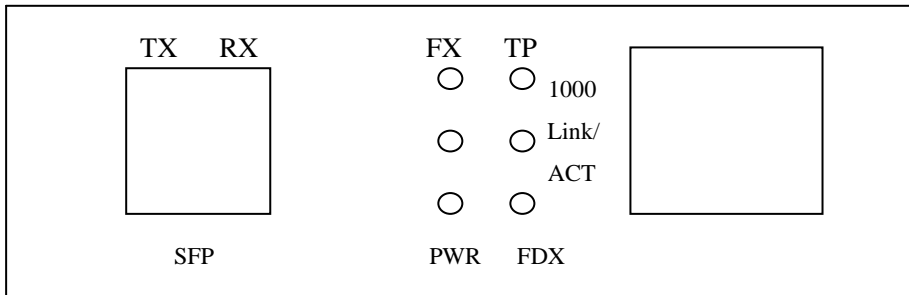
Front and Side Panel, LED Description

Fig 1 Converter Front Panel for external power

3. LED Description

LED	Color	Function
TP 1000	Green	Lit when TP connection is 1000Mbps Off when TP connection is 10 or 100Mbps
TP ACT	Green	Blinks when TP data is transmitting
TP FDX	Green	Lit when Media Converter full-duplex mode is active Off when Media Converter half-duplex mode is active Blinks when collision signal is present
FX FX	Green	Optical PORT: Lit when Optical Receiver detect OK. Off when Optical Receiver detect not.
FX LINK	Green	Optical PORT: Lit when 1000Base-X connection is good. Off when 1000Base-X connection is not good.
FX PWR	Green	POWER: Lit when power is coming up. Off when power is down.

4 Installing the Converter

=>Wear a grounding device for electrostatic discharge

=>Install the media cable for network connection

=>Verify that the voltage of AC power is correct and plug in AC power cord

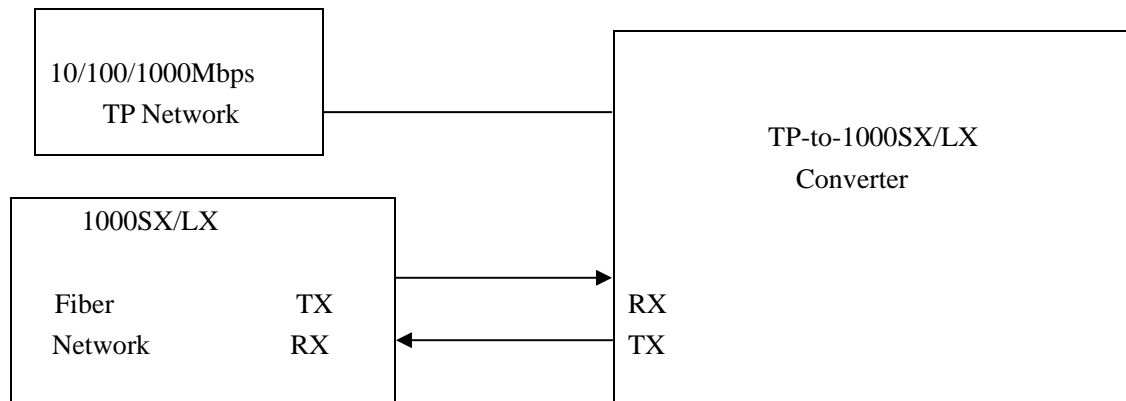| Fiber Port	Attach the fiber cable. The TX, RX fiber cable Must be paired at both ends
TP Port	Attach TP Cat, 5 cable to TP port. The 10/100/1000 TP port is auto-linking the Tx/Rx wires (e.g.either MDI-X or MDI-II). It will auto-cross-connect the transmit/receive wires to a switch or to a workstation, be sure of the proper wiring and the Link LED status.

Fig.3 Basic Network Connection

5 Connecting To Gigabit Device

Converter TP Port	10/100/1000Mbps N way auto-negotiation 1000Mbps is option
Converter Fiber Port	1000Mbps full-duplex with N Way flow-control. Link partner must be 1000Mbps full-duplex with N Way flow control

6. Cable Connection Parameter

. TP Cable Limitations: Cat.5 and up to 100m

. Fiber cable Limitations:

Wavelength	Muliti-Mode Fiber 62.5/125 μm		Muliti-Mode Fiber 50/125 μm	
	Bandwidth MHz-Km	Distance	Bandwidth MHz-Km	Distance
850nm	160	220m	400	500m
	200	275m	500	550m
1310nm 1550nm	Single-Mode Fiber 9/125 μ m is up to 10km ~40km SC,FC single-mode are option			

7. TP-Fiber   Technical Specifications

. Standards: IEEE802.3z/ab 10/100/1000B ase-T,   1000Base-SX/LX

. UTP Cable: Cat.5 cable and up to 100m

. Fiber Cable: 1000SX: 62.5/125 or 50/125 μ m multi-mode

        1000LX: 9/125 μm single-mode

. Data transfer Rate:

    2000Mbps for full-duples at 1000Mbps speed

. LED Indicators:

    TP   ACT,   FDX,   1000/Link

    Power,   FX   ACT,   1000/Link

. TP Flow Control   :   N Way auto-negotiation

 Fiber Flow Control   :   N Way full-duplex mode

. Power Requirement   :   1A@+5VDC

. Ambient Temperature   : 0°to 70℃

. Humidity   : 5% to 90%

. Dimensions: 26(H)X 70(W) X 94(D)mm