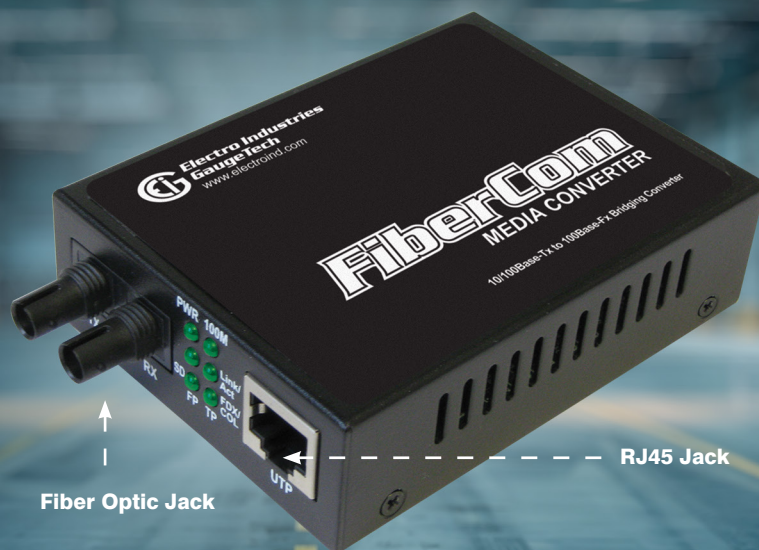# FiberCom Media Converter

10/100BASET TO 100BASEFX BRIDGING MEDIA CONVERTER

CONVERT BETWEEN COPPER-WIRE ETHERNET AND FIBER OPTIC CABLES

Fiber Optic Jack

RJ45 Jack

Features

- Convert RJ45 copper to instrinsically safe and isolated Ethernet over Fiber Optic..

- Support for half-duplex and full-duplex transmission.

- Ability to extend range of communication from 100 meters maximum (with twisted pair alone) to 25 kilometers.

- Built-in switching core to implement flow control and reduce broadcast packets.

- Support for the transmission of extra long packets (1600 bytes) over VLAN.

- Built-in 128 kB RAM for data buffering.

- Auto MDI-MDIX function for seamless device connection.

- Link pass-through function (LPF) for fault detection.

- Fiber optic immunity to electromagnetic interference (EMI) improves data transmission, especially in environments with high EMI, e.g., a manufacturing facility's plant floor.

Description

The FiberCom Media Converter provides 10/100 Mbps communication between Cat 5 twisted pair Ethernet cables and Fiber Optic cables. The FiberCom protects your copper-wire investment, while extending the range of your communication capability and preparing your network for future optimization.

Easy-To-Use

- The network device (work station, hub, or switch) with RJ45 interface connects to the RJ45 jack.

- The fiber optic cable connects to the ST Fiber jack.

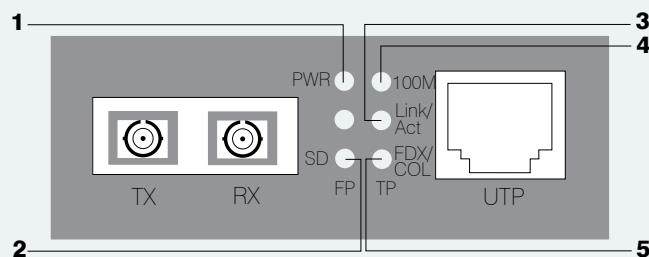- The FiberCom's LEDs indicate connection status (see next page).

Ordering Information	
Model Number	EI-FP-8110SA-25
Includes 120/220 Volt AC power adapter.	

FiberCom Media Converter

Front Panel LED Indicators (Refer to figure on right.)

Number	LED	Function	Status	Meaning
1	**PWR**	Power LED	ON	Power is ON
			OFF	Power is OFF
2	**FP-LINK**	Fiber port link/ action status LED	ON	Fiber link is ACTIVE
			OFF	Fiber link is INACTIVE
3	**Link/Act**	UTP port link/ action status LED	ON	No Data is being received
			Blink	Data has been transmitted (not currently transmitting)
			OFF	Data is not being sent out
4	**100M**	UTP port speed LED	ON	100 Mbps speed
			OFF	10 Mbps speed
			OFF	FDX/COL Duplex Mode
5	**FDX/COL**	Duplex Mode	ON	Full-duplex
			Blink	Data collision (half-duplex mode only)
			OFF	Half-duplex

Specifications	
Access mode	10/100 Mbps Ethernet
Standards	IEEE802.3 10BaseT Ethernet, IEEE802.3U 100BaseTX/FX Fast Ethernet, IEEE802.1Q VLAN, IEEE802.1p CoS, IEEE802.1D Spanning Tree MAC Bridges
Wavelength	1310 nm
Transmission distance	2 Dual-fiber single-mode: 82021'/25 Km. Category-5 twisted pair: 328'/100 m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pair. One fiber port: Dual-fiber single-mode – ST fiber port (fiber size: 9/125 μm)
Conversion mode	Medium conversion
Delay	<10μs
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	See chart above
Power	(90-265) V AC Input using external power supply/ 5 V DC input jack
Power consumption	5 W
Operating temperature	(50 to 131)°F/(10 to 55)°C
Operating humidity	5%~90%
Storage temperature	(-40 to 158)°F/(-40 to 70) °C
Storage humidity	5%~90% (non-condensing)
Dimensions	1.02"/26 mm (H) X 2.75"/70 mm (W) X 3.69"/94 mm (L)