FiberCom 10/100BaseT to 100BaseFX Bridging Media Converter
User's Manual

1. Overview

Electro Industries' FiberCom 10/100BaseT to 100BaseFX Bridging Media Converter (part # EI-FP-8110SA-25) provides 10/100Mbps 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.
FiberCom features include:

- 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 128kB RAM for data buffering.
- Support for auto MDI-MDIX function for seamless device connection.
- Fiber optic immunity to electromagnetic interference (EMI) improves data transmission, especially in environments with high EMI, e.g., a manufacturing facility's plant floor.

IMPORTANT! Inspect your FiberCom package to ensure it contains the following items:

1. FiberCom Media Converter
2. External Power Supply

2. Specifications

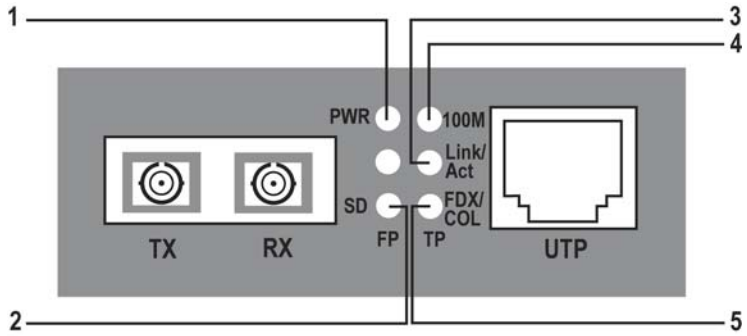
Parameters	Specifications
Access mode	10/100 Mbps Ethernet
Standards	IEEE802.3 10BaseT Ethernet, IEEE802.3U 100BaseTX/FX Fast Ethernet, IEEE802.1Q VLAN, IEEE802.1p CoS, IEEE802.1D Spanning Tree MAC Bridges
Wavelength	1310nm
Transmission distance	Dual-fiber single-mode: 82021feet/25 km Category-5 twisted pair: 328 feet/100m
Port	One RJ45 port: Connected to STP/UTP Category-5 twisted pair One fiber port: Dual-fiber single-mode – ST fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion
Delay	<10μs
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	See chart on the next page
Power	90-265VAC Input using external power supply/ 5VDC Input jack
Power consumption	5W
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"/26mm(H)*2.75"/70mm(W)*3.69"/94mm(L) (height * width * length)

3. Connection

Connect the FiberCom Media Converter as follows:

a. Connect the network device (work station, hub or switch) with RJ45 interface to the FiberCom's RJ45 jack, using Cat-5 twisted-pair.
b. Connect the fiber optic cable to the FiberCom's ST Fiber jack.
c. Plug the supplied Power supply into the FiberCom.
d. Once the devices are powered on, the FiberCom LEDs indicate connection status. See next section.

4. Front Panel Indicators



Number	LED	Function	Status	Meaning
1	PWR	Power LED	ON	Power is ON
			OFF	Power is OFF
2	FP	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	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	100M speed
			OFF	10M speed
5	FDX/COL	Duplex Mode	ON	Full-duplex
			Blink	Data collision (Half-duplex mode, only)
			OFF	Half-duplex

5. Troubleshooting

If the FiberCom Media Converter fails to operate, follow these steps:

1. Is the FiberCom's "PWR" LED illuminated? (See page 10)	No: - Is the power supply compatible with the AC outlet? - Is the power supply installed properly in the FiberCom and the AC outlet? - Contact EIG's technical support.
	Yes: continue to step 2.
2. Is the "FDX/COL"LED illuminated on a port with twisted-pair cable installed?	No: - The FiberCom has selected half-duplex mode. Yes: - The FiberCom has selected full-duplex mode. If the mode is not correct, disconnect and reconnect the twisted pair cable to restart the initialization process. Continue to step 3.
3. Is the "Link/Act" LED illuminated on the on the fiber cable port?	No: - Check the fiber cables for proper connection. - Verify that the TX and RX cables are connected to the FiberCom's RX and TX ports, respectively.
	Yes: continue to step 4.
4. Is the "100M" LED illuminated on a port with twisted-pair cable installed?	No: - The FiberCom has selected 10Mbps operation. Yes: - The FiberCom has selected 100Mbps operation. If the speed is not correct, disconnect and reconnect the twisted pair cable to restart the initialization process.

FCC RFI Statement
Federal Communications Commission (FCC) Radio Frequency Interference
This device complies with part 15 of FCC regulations.

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