

FiberCom Media Converter

10/100BaseT to 100BaseFX Bridging Media Converter

FiberCom

Convert between Copper-wire Ethernet and Fiber Optics

Features

- Convert RJ45 copper to intrinsically safe and isolated Ethernet over Fiber Optic.
- Support for half-duplex and full-duplex transmission.
- Ability to extend range of communication from 1000 meters maximum (with twisted pair alone) to 120 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 128kB RAM for data buffering.
- Support for auto MDI-MDIX function for seamless device connection.
- Support for 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 10/100Mbps 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.

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).



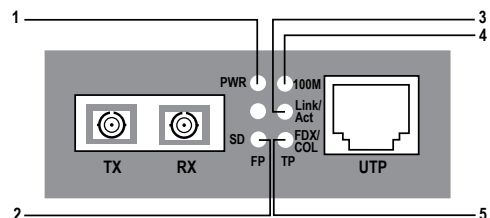
Fiber Optic Jack

RJ45 Jack

Ordering Information

Model number: EI-FP-8110SA-25
Includes 120/220 Volt AC power adapter.

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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	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

Specifications

Access mode	10/100 Mbps Gigabit 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	850nm/1310nm/1550nm
Transmission distance	Dual-fiber single-mode: (32.8k to 393.7k)feet/(10/20/40/60/80/100/120)Km Category-5 twisted pair: 328'/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: 9/125 μ m)
Conversion mode	Medium conversion
Delay	<10 μ s
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	See chart above
Power	90-265VAC Input using external power supply/ 5VDC input jack
Power consumption	5W
Operating temperature	(50 to 131) $^{\circ}$ F/(10 to 55) $^{\circ}$ C
Operating humidity	5%~90%
Storage temperature	(-40 to 158) $^{\circ}$ F/(-40 to 70) $^{\circ}$ C
Storage humidity	5%~90% (non-condensing)
Dimensions	1.02"/26mm(H)*2.75"/70mm(W)*3.69"/94mm(L) (height * width * length)

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