

Document Name: User Manual for 10/100 Fiber to Ethernet Media Converter, Model SC09FEN

Model SC09FEN provides a cost effective plug-and-play solution for long-range 10Base-T or 100Base-TX Ethernet extensions. It has an added benefit of 10/100 Auto-negotiation, making it the perfect choice when planning future upgrades of 10Base-T networks. Built-in auto-sensing capabilities enable full or half-duplex Ethernet operation with no configuration required.

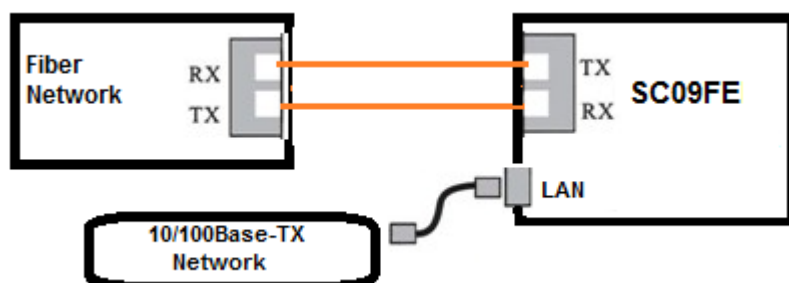
Features : MDI/MDI-X, 10M/100M Auto negotiation
 Supports full-duplex / half-duplex, Point-to-point transfer
 Link Fault Pass Through (LFPT)

Interface

RJ-45 interface : The transmission media supports CAT5 twisted-pair with typical length of 100 meter with MDI/MDIX feature.

Fiber interface: Fiber interface is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceiver are connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX".

Basic Network Connection



The network device (work station, hub or switch) with RJ-45 interface is connected to RJ-45 jack of optical transceiver through twisted-pair. The multi/single mode fiber is connected to the fiber interface of the optical transceiver then switch on etc. The corresponding LED is on for correct connection. (See the table below for the LED indicators)

LED Indication



LED indicator	Status	Explanation
FXL	ON	"ON" indicates that Fiber link is in correct connection
	Blink	"Blink" indicates packet going through Fiber end.
TXL	ON	"ON" indicates that TP link is in correct connection
	Blink	"Blink" indicates packet goes through Ethernet end.
FDX/COL	ON	Transceiver works in the Full duplex mode
	OFF	Transceiver works in the Half duplex mode
PWR	ON	Power is ON
SD	ON	Fiber signal is detected
100M	ON	Transfer rate of TP Interface is 100Mbps
	OFF	Rate of TP Interface is 10Mbps

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Fault and Maintenance of Converter

Fault description	Cause / description	Maintenance
POWER LED is not ON	Power plug Not connected / Not properly connected	Connect the Power plug properly.
		Check /confirm Input voltage 230V AC /24V DC
SD LED is OFF	There might be any fault with the Remote optical device	Check the Remote optical devices and the main fiber to see if they are working normally
	The optical Fiber connection is not connected / Faulty	Connect Fiber cable properly
	Fiber cable Faulty	Connect New Fiber cable.
TXL LED is OFF	Ethernet cables not connected	Connect the Ethernet cables
	Ethernet cable Faulty	Connect New Ethernet cable.