Model 2550

S.I.TECH

Ethernet to Fiber Optic Transceiver

S.I.TECH

MINI OPTICAL BIT-DRIVER®

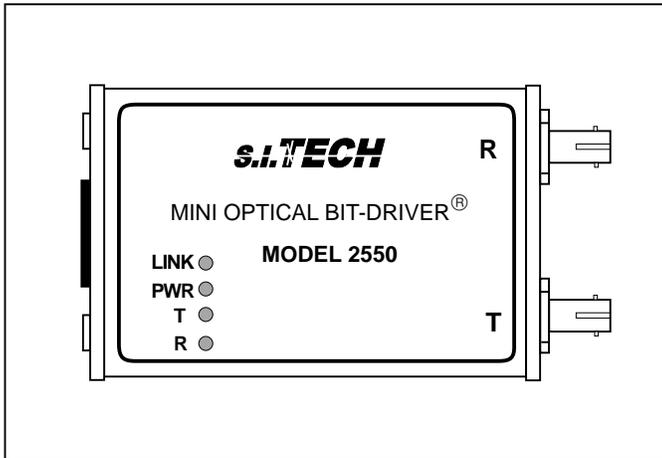**MODEL 2550**

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Features:

- Supports 10 Base - FL or FOIRL Standards
- Small size
- Link Status, Receive Data, Transmit Data, and Power LED indicators
- ST or SMA optical connectors

S.I.Tech 2550 Ethernet Fiber Optic Transceiver is a compact adapter for connection of Ethernet based equipment to any fiber optic 10 Base FL/FOIRL network. The transceiver connects to RJ45 and provides ST or SMA fiber optic connectors.

Four LED indicators provide a visible verification of transmission status and transceiver functions.

Operation Mode: 10 Base - FL/FOIRL
Input/Output Interface: ST optical connector standard (SMA option).
Transmission Distance: See distance chart
Transmitter Output Power: 30 μW, 62.5/125μ fiber
System Wavelength: 850 nm (1300 nm option)
Data Rate: 10 Mbps
Collision Frequency: 10 MHz.
Bit Error Rate: 10^{-9}
Receiver Sensitivity: 3 μW
Operating Temperature: 0 $^{\circ}$C to 50 $^{\circ}$C
Metal Enclosure: 2.0 x 3.5 x 1.0 in (5.0 x 8.90 x 2.54 cm)
Weight: 0.25 lb (100 grams)
Input Power: External with power supply (S.I.Tech #2121 - 110 VAC to 12 VDC)
230V Version: S.I.Tech #2122 power supply

Operating Distance for Fiber Optic Cable

Model #	Fiber Size (Microns)	Attenuation (dB/Km)			Distance (Meters)			Distance (Feet)		
		Wavelength (nm)			Wavelength (nm)			Wavelength (nm)		
		850	1300	1550	850	1300	1550	850	1300	1550
2550-O	200	7.0	-	-	1000	-	-	3300	-	-
2550	50	3.0	1.0	-	2000	6000	-	6600	20000	-
2550	62.5	4.0	1.0	-	2000	6000	-	6600	20000	-
2550-SM	10*	1.0	0.35	0.25	-	10000	12000	-	33000	40000

* Single mode (observe network timing restrictions) - 1300nm option
Optical Unit Connection: Connect the optical transmission line to the T and R receptacles. Note which cable channel goes to T or R by noting cable imprint. On the other end, reverse the connection.

Meets FCC requirements of Class A, Part 15 Computing Devices Standard.
Specifications subject to change without notice.

(UL) (SP) CE

TYPICAL APPLICATION

Note: One Ethernet connection must be set to 10 Mbps only.