

ECL to Fiber Optic Transmitter/Receiver



SYSTEM

Transmission: Up to 6500 ft. (2 Km) with suitable graded index fiber optic cable or 10 Km using single mode fiber

Typical Bit Error Rate: Better than 10^{-9}

ELECTRICAL SIGNAL INPUT/OUTPUT FOR TRANSMITTER AND RECEIVER

Format: ECL

Connector: TRIAX

Data Rate: Up to 40Mbps

Input impedance: ECL levels 120

Input Power: 10 to 30VDC 500mA Max.

OPTICAL TRANSMITTER

LED: 10dB Budget 62.5/125 Fiber

Wavelength: 1300 nm

Emitter Type: LED

Optical Connector: ST

OPTICAL RECEIVER

Wavelength: 1300 nm

Minimum Sensitivity: (BER 10^{-9}) 10dB Budget

Optical Connector: ST

Operating Temperature: 0 °C to 50 °C

Size: 5.00" X 2.60" X 1.0"
(12.7 X 6.6 X 2.5 cm)

Humidity: 0 to 90% Non-Condensing

TRANSMISSION LINE INTERFACE

Operating distance is dependent upon optical fiber core diameter and the cable's optical attenuation. The table below indicates three cables that may be used at any data rate. These cables are available in connectorized assemblies to meet the exact configuration of your application.

S.I.Tech offers complete links including fiber optic cable, connectors, cable assemblies, and Bit-Drivers .

Operating Distance for Fiber Optic Cable

Fiber Size (Microns)	Attenuation (dB/Km)		Distance (Meters)		Distance (Feet)	
	Wavelength (nm)		Wavelength (nm)		Wavelength (nm)	
	1300	1550	1300	1550	1300	1550
50	1.0	-	6000	-	20000	-
62.5	1.0	-	6000	-	20000	-
10 SM*	0.35	0.25	10000	12000	33000	40000

* Single mode (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.

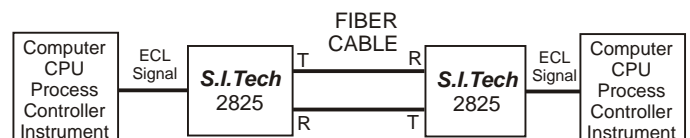
ORDERING INFORMATION

Model Numbers

- 2825 ECL to Fiber, Transmitter/Receiver, Multimode, ST Connector
- 2825-SM ECL to Fiber, Transmitter/Receiver, Single mode, ST Connector
- 2825-T ECL to Fiber, Transmitter, Multimode, ST Connector
- 2825-R ECL to Fiber, Receiver, Multimode, ST Connector
- 2825-T-SM ECL to Fiber, Transmitter, Single mode, ST Connector
- 2825-R-SM ECL to Fiber, Receiver, Single mode, ST Connector

Notes:
Power Supply: 2164

TYPICAL APPLICATION



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

