

Model 2560



Optical Asynchronous Ruggedized Mini Bit-Driver®



Features:

- Up to 115 Kbps asynchronous operation on fiber optic cable, simplex or full duplex operation with handshaking
- 2 control signals
- -40 °C to + 80 °C operating range (-20 to + 60 °C SM)
- Metal ST connector receptacle (SMA option)
- LED indicators for power, transmit and receive data
- Female RS-232C (V.24) connectors
- Complies with IEEE C37.90.1
- IEC 801 Surge Protection
- Panel Mounting Brackets
- See distance chart

Operation Mode: Asynchronous, simplex or full duplex

Input/Output Interface: RS-232-C, asynchronous with 2 control lines, connects directly to Terminal

Transmission Line Interface: Metal ST connector is standard for interfacing with fiber optic duplex cable (SMA option, SC and FC option for SM)

Transmission Distance: See distance chart

Optical Power into a 62.5 Micron

Core Optical Fiber: 20 microwatts, 10 dB power budget @ 820 nanometers (1300 nm Option)

Receiver Sensitivity: 2 microwatts at better than 10^{-9} bit error rate

Operating Temperature: -40 °C to 80 °C for multimode
-20 °C to 60 °C for single mode

Metal Enclosure: 7.25 X 2.28 X 1.3 in
(18.4 X 5.8 X 3.3 cm)

Weight: 0.9 lb. (400 grams)

Input Power: 85 V to 260 VAC or DC
(+24 VDC and -48 VDC Option)

Card Version: S.I.Tech #2360 with Series 3000 Rack

RS - 232 CONNECTOR PINS UTILIZED BY 2560 MINI BIT - DRIVER (FEMALE)

Pin No.	EIA DESIG	Description	Symbol	DTE DCE
1	AA	Protective Ground	Chassis Ground	↔
2	BA	Transmitted Data	TXD	→
3	BB	Received Data	RXD	←
4	CA	Request to Send	RTS	→
5	CB	Clear to Send	CTS	←
6	CC	Data Set Ready	DSR	←
7	AB	Signal Ground	Sig. Gnd.	↔

DSR active indicates good optic receive signal.
RTS/CTS carried end to end.

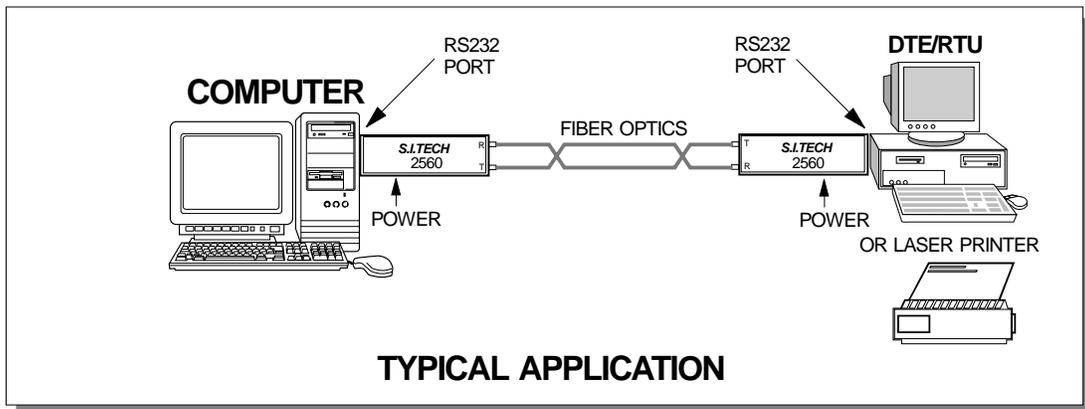
OPERATING DISTANCE FOR FIBER OPTIC CABLE

Fiber Size (Microns)	Attenuation dB/Km	Distance* Meters	Distance* Feet
50	3.0	2000	6600
62.5	4.0	2000	6600
10 SM	1.0	5000	16000

* High power option available. SM - 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.

Meets FCC requirements of Class A, Part 15 Computing Devices Standard.

Specifications subject to change without notice.



TYPICAL APPLICATION