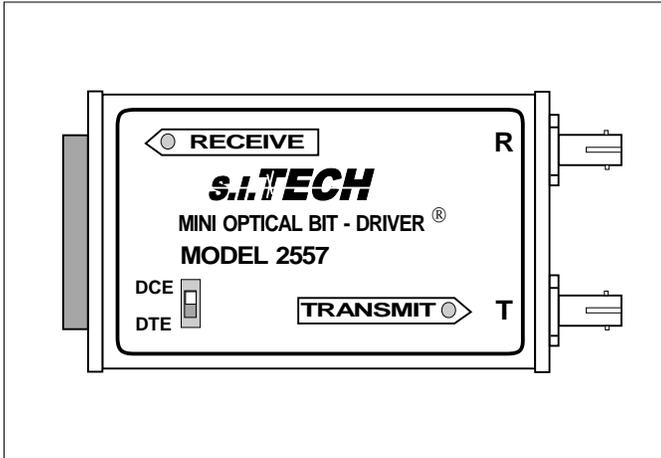


Optical Asynchronous Mini Bit - Driver[®]



Features:

- 50 to 115 Kbps asynchronous operation on fiber optic cable, simplex or full duplex operation
- 1000 ft (300 m) distance capability.
- 0 to 50^o C operating range
- ST connector receptacles (SMA option)
- DTE or DCE switch selectable
- Mini Bit-Driver is powered by DTE (RS-232 Self-powered)
- LED indicators for transmit and receive data
- Male or female RS-232C (V.24) connectors

RS-232 CONNECTOR PINS UTILIZED BY 2557 MINI BIT-DRIVER (MALE OR FEMALE)

PIN No.	EIA Desig.	Description	Symbol	DTE	DCE
1*	AA	Protective Ground	Chas. Gnd	←→	←→
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	←→	←→
8**	CF	Data Carrier Detect	DCD	←	←
9		Positive 5 VDC Input	+5VDC	→	→
20**	CD	Data Terminal Ready	DTR	→	→

*Pins 1 & 7 tied together and pins 4 & 5 tied together
 **Pins 6, 8, and 20 used to supply power or Pin 9 +5VDC

Operation Mode: Asynchronous, simplex or full duplex

Input/Output Interface: RS-232-C, Type D Asynchronous to 115.0 Kbps, connects directly to Terminal (RS-232 cable not required)

Transmission Line Interface: ST connector is standard for interfacing with fiber optic duplex cable. (SMA option).

Transmission Distance: 1000 ft. (300 m)

Optical Power into a 50

Micron Core Optical Fiber: 0.5microwatts, 10 dB power budget @ 820 nanometers.

Receiver Sensitivity: 50 nanowatts at less than 10⁻⁹ bit error rate

Operating Temperature: 0 °C to 50 °C

Input Power: Host supplied or Pin 9

Size: 1.75 x 3 x 0.625 in (4.5 x 7.5 x 1.6 cm)

Enclosure: Metal Enclosure

Weight: 0.25 lb (100 grams)

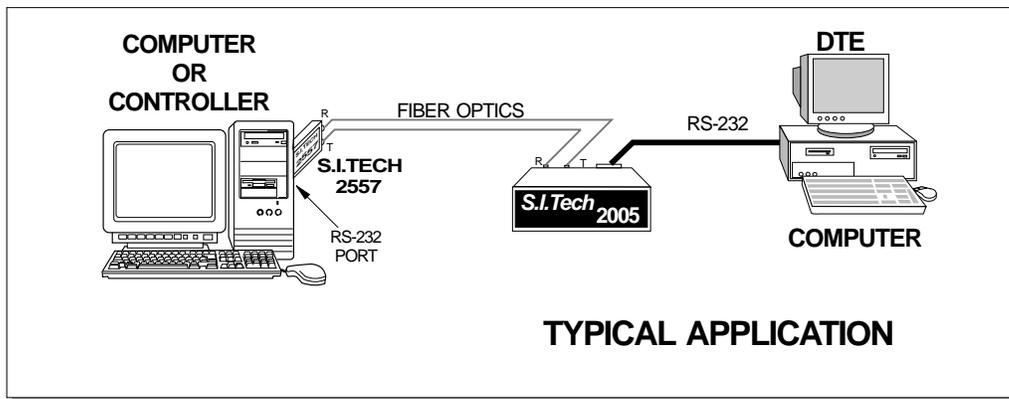
Meets FCC requirements of Class A, Part 15 Computing Devices Standard.
 Specifications subject to change without notice.



OPERATING DISTANCE FOR FIBER OPTIC CABLE

Fiber Size (Microns)	Attenuation dB/km	Distance Meters	Distance Feet
100	5.0	300	1000
62.5	4.0	300	1000
50	1.0	300	1000

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 the cable imprint. On the other end, reverse the connection.



TYPICAL APPLICATION