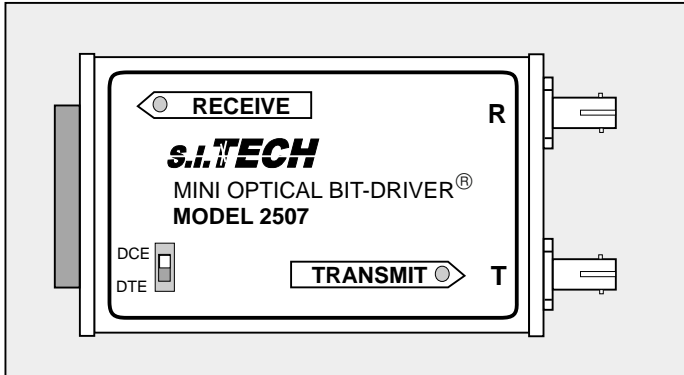


Optical Asynchronous Mini Bit-Driver[®]



Features:

- 0 to 19.2 Kbps asynchronous operation on fiber optic cable, simplex or full duplex operation
- 3280 ft. (1.0Km) maximum distance capability
- 0 °C to + 50 °C operating range
- ST connector receptacle (SMA option)
- DTE or DCE switch selectable
- Mini Bit-Driver[®] is powered by DTE (RS-232 self-power)
- LED indicators for transmit and receive data
- Male or female RS-232C (V.24) connectors

RS - 232 CONNECTOR PINS UTILIZED BY 2507 MINI BIT - DRIVER (MALE OR FEMALE)

Pin No.	EIA DESIG.	Description	Symbol	DTE DCE
1*	AA	Protective Ground	Chassis	↔
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 12 VDC Input	+ 12V	→
20**	CD	Data Terminal Ready	DTR	→

* Pins 1 and 7 tied together and pins 4 and 5 tied together
 ** Pins 6, 8 and 20 used to supply power

Operation Mode: Asynchronous, simplex, or full duplex

Input/Output Interface: RS-232-C, Type D, asynchronous to 19.2 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: 3280 ft. (1.0 Km)

Transmission Enabled by RTS: RTS/CTS delay 0 ms

Optical Power into a 50

Micron Core Optical Fiber: 0.5 microwatt, 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

Metal Enclosure: 1.75 x 3 x 0.625 in (4.5 x 7.5 x 1.6 cm)
 Panel or DIN rail mounting option

Weight: 0.25 lb (100 grams)

Input Power: Host supplied or pin 9

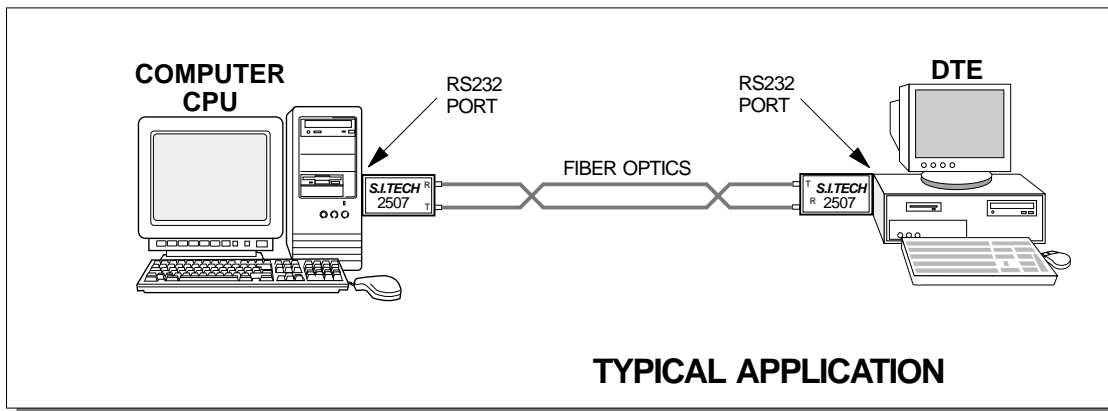
OPERATING DISTANCE FOR FIBER OPTIC CABLE

Fiber Size (Microns)	Attenuation dB/km	Distance Meters*	Distance Feet*
50	3.0	1000	3280
62.5	4.0	1000	3280
100	5.0	1000	3280

* Option: 660nm (2507-660) using plastic fiber, 1000 micron 300 ft. (100 m) max.

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