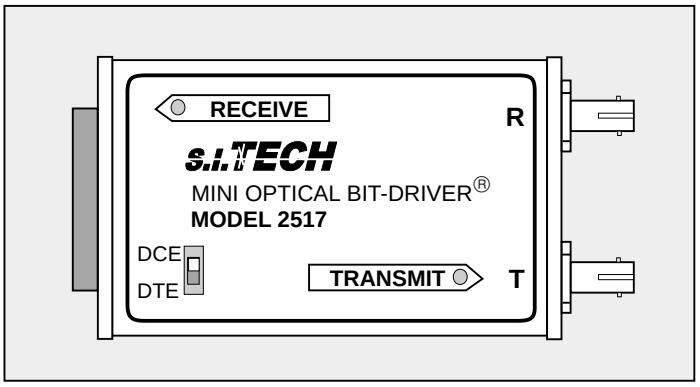
Model 2517

S.I.TECH

Optical Asynchronous Mini Bit-Driver ®



Features:

- 0 to 19.2 kbps asynchronous operation on fiber optic cable, simplex, or full duplex operation
- 3000 ft. (1.0Km) distance capability
- 0 ^{O}C to +50 ^{O}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
- 2517 is 2507 with mark and space reversed

Operation Mode: Asynchronous, simplex or full duplex

Input/Output Interface: RS-232-C, Type D, asynchrounous 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: 3300 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 ^{O}C to 50 ^{O}C

Metal Enclosure: 1.75 x 3 x 0.625 in (4.5 x 7.5 x1.6 cm)

Weight: 0.25 lb (100 grams)

Input Power: Host supplied or pin 9

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

RS - 232 CONNECTOR PINS UTILIZED BY 2517 MINI BIT - DRIVER (MALE OR FEMALE)

Pin No.	EIA DESIPG.	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**	DC	Data Terminal Ready	DTR	→

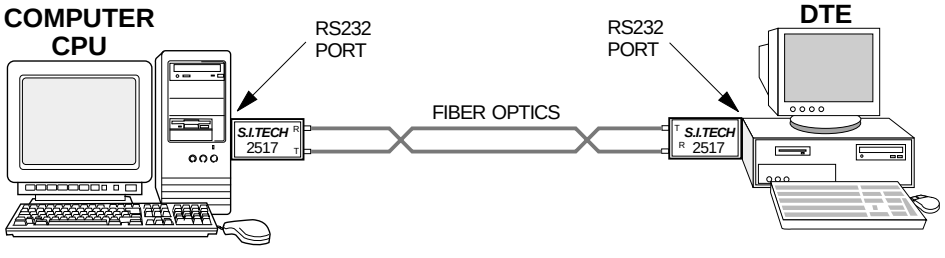
* Pins 1 and 7 tied together and pins 4 and 5 tied together
** Pins 6, 8, and 20 used to supply power

OPERATING DISTANCE FOR FIBER OPTIC CABLE

Fiber Size (Microns)	Attenuation dB/km	Distance* Meters	Distance* Feet
50	3.0	1000	3300
62.5	4.0	1000	3300
100	5.0	1000	3300

* Option: 660 nm (2517-660) 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.



TYPICAL APPLICATION

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