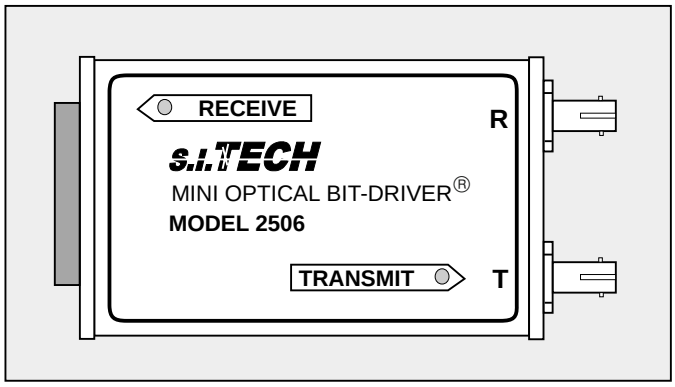
Model 2506

S.I.TECH

Optical Asynchronous Mini Bit-Driver ®



Features:

- 50 bps to 56 Kbps asynchronous operation on fiber optic cable, simplex or full duplex operation with handshaking
- Powered by wall transformer (S.I.Tech #2121) or through the DB25 connector
- 2 full duplex control signals
- 6600 ft. (2.0Km) distance capability
- 0 ^{o}C to + 50 ^{o}C operating range
- ST connector receptacle (SMA option)
- LED indicators for transmit and receive data
- Male or female RS-232C (V.24) connectors

Operation Mode: Asynchronous, simplex or full duplex

Input/Output Interface: RS-232-C, asynchronous with 2 control lines, 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: 6600 ft. (2.0 Km)

Optical Power into a 62.5 Micron Core Optical Fiber: 10 microwatts, 15 dB power budget @ 820 nanometers (1300nm option)

Receiver Sensitivity: 220 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) Panel or DIN rail mounting option

Weight: 0.25 lb (100 grams)

Input Power: Host supplied or external power supply (S.I.Tech #2121 - 110 VAC to 12 VDC)

230V Version: Use S.I.Tech 2122 power supply

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

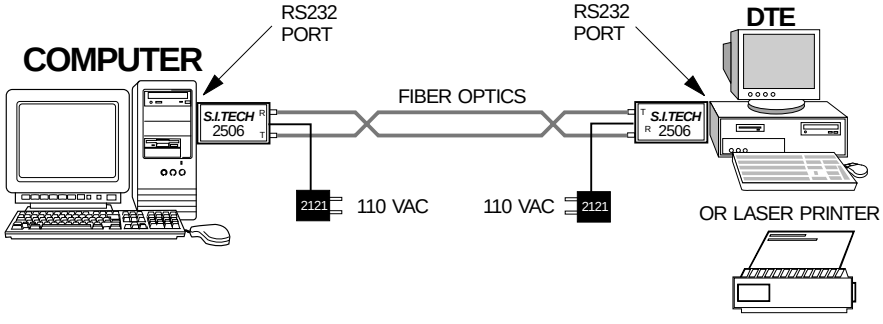
RS - 232 CONNECTOR PINS UTILIZED BY 2506 MINI BIT - DRIVER (MALE OR FEMALE)

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.	◄►
9		Positive 12 VDC Input	+ 12V	►
20	CD	Data Terminal Ready	DTR	►

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
100	5.0	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.



TYPICAL APPLICATION

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