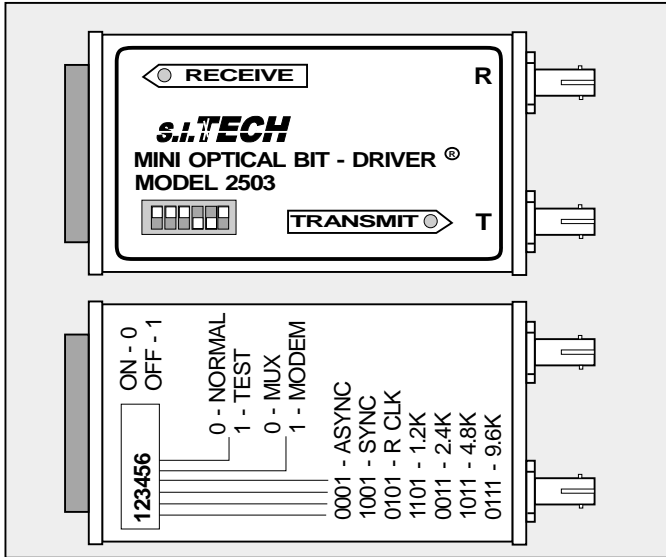


Optical Asynchronous/Synchronous Mini Modem



Features:

- Full duplex synchronous DC to 9.6 Kbps/asynchronous DC to 19.2 Kbps with control signals
- 6600 ft. (2Km) distance capability
- 0 °C to + 50 °C operating range
- ST connector receptacle (SMA option)
- Switch selectable speeds in sync operation
- Designed to work with S.I.Tech 3503 TEMPEST modem

RS - 232 CONNECTOR PINS UTILIZED BY 2503 MINI BIT - DRIVER (MALE)

Pin No.	Description	Symbol	DTE DCE
1	Protective Ground	Ground	↔
2	Transmitted Data	TXD	→
3	Received Data	RXD	←
4	Request to Send	RTS	→
5	Clear to Send	CTS	←
6	Data Set Ready	DSR	←
7	Signal Ground	Sig. Gnd.	↔
8	Data Carrier Detect	DCD	←
15	DCE Transmit Clock	TXQ	←
17	Receive Clock	Rx Clock	←
20	Data Terminal Ready	DTR	→
21	Signal Quality Detector	SQD	←
24	DTE Transmit Clock	TXQ	→

Operation Mode: Asynchronous/Synchronous, full duplex with control signals

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

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

Optical Power into a 50 Micron Core Optical Fiber: 10 microwatts, 15 dB power budget @ 850 nanometers (1300nm option)

Receiver Sensitivity: 300 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: External power supply (S.I.Tech #2121 - 110VAC to 12 VDC)

220V Version: Use S.I.Tech 2122 power supply

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

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

Specifications subject to change without notice.

