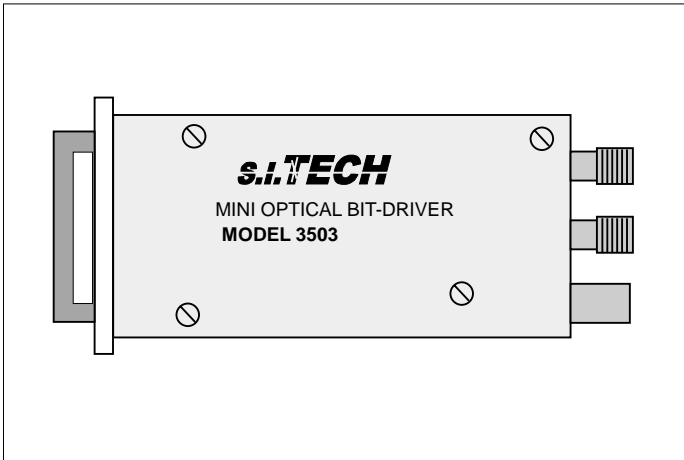


Optical Asynchronous/Synchronous Mini Bit - Driver ®



Features:

- Full duplex synchronous DC to 9.6 Kbps, asynchronous DC to 19.2 Kbps with control signals
- 6600 ft. (2 Km) maximum distance capability
- -20° C to 85° C operating range
- SMA connector receptacle
- Switch selectable speeds in sync operation
- Designed to meet TEMPEST specification

RS - 232 CONNECTOR PINS UTILIZED BY 3503 BIT DRIVER® (MALE)

Pin No	Description	Symbol	DTE	DCE
1	Ground	Chassis 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	←	←
17	Receive Clock	Rx Clock	→	→
20	Data Terminal Ready	DTR	→	→
21	Signal Quality Detector	SQD	→	→
24	Transmit Clock	TXQ	→	→

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

Input/Output Interface: RS-232-C, Type D, connects to terminal (RS232 cable not required)

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

Optical Power into a 50 Micron Core Optical Fiber: 1 microwatt, 15 dB power budget @ 850 nanometers

Receiver Sensitivity: 30 nanowatts at less than 10⁻⁹ bit error rate

Operating Temperature: -20 ° C to 85 ° C

Input Power: External with power supply (S.I.Tech #2103 - 110/230 VAC to 12 VDC)

Metal Enclosure: 1.67" X 4" X 0.87" (4.25 X 10.2 X 2.2 cm)

Weight: 0.37 lb.(190 grams)

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

* High power option available

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

TYPICAL APPLICATION

