

Optical Asynchronous/Synchronous Mini Bit - Driver O



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:

ST connector is standard for interface with fiber optic duplex

Optical Power into a 50

Micron Core Optical Fiber: 10 microwatt, 10 dB power budget @ 850 nanometers (1310 Option)

Receiver Sensitivity:

1 Microwatt at less than 10-9 bit

error rate

Operating Temperature: -40° C to 80° C(MM) -20° C to 60° C(SM)

Input Power: External with power supply (S.I.Tech

#2103A 110/230 VAC to 12 VDC)

Metal Enclosure: 2.0" X 4" X 0.87"

(5.0 X 10.2 X 2.2 cm)

Weight: 0.37 lb.(190 grams)

Meets FCC requirements of Class A, Part 15

Computing Devices Standard.

Specifications subject to change without notice.

Features:

- · Full duplex synchronous DC to 9.6 Kbps, asynchronous DC to 115 Kbps with control signals
- · 6600 ft. (2 Km) distance capability with multimode
- · -40° C to 80° C operating range (MM) (-20 to 60° C for SM)
- · ST connector receptacle
- · Switch selectable speeds in sync operation
- · Designed to meet TEMPEST specification
- Single mode fiber option

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	

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
9sm*	0.3	10000	33000

^{*} High power and single mode option available

