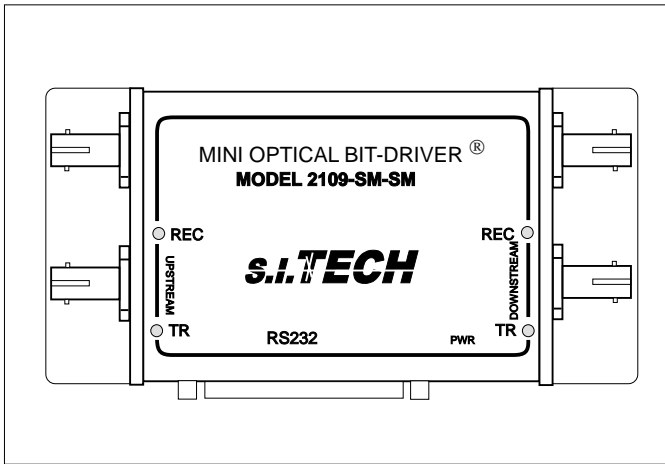


Model 2109-SM-SM



Optical Mini Multidrop Bit-Driver[®]



Features:

S.I. Tech model 2109-SM-SM is a mini optical Multidrop Bit-Driver[®] that contains single mode transmitters/receivers. The upstream and downstream fiber ports repeat data through the 2109-SM-SM multidrop and drop/insert data on the RS-232 port. The RS-232 port inserts data onto the upstream fiber port only, and gets data dropped from the upstream fiber port only. The downstream fiber port only sends/receives data from the upstream fiber port.

RS - 232 DB 25 PIN CONNECTOR - FEMALE PINS UTILIZED BY 2109-SM-SM MINI BIT - DRIVER[®]

Pin No.	Description	Symbol
2	Transmit Data	TD
3	Receive Data	RD
7	Ground	GND

Operation Mode: Asynchronous, half duplex

Input/Output Interface: RS-232, up to 115 Kbps

Transmission Line Interface: ST connectors are standard for interfacing with fiber optic duplex cable (SMA connectors optional)

Optical Power into a 62.5 Micron Core Optical Fiber: 10 microwatts, 13 dB power budget @ 850 nanometers (1300nm option)

Receiver Sensitivity: 500 nanowatts at less than 10⁻⁹ bit error rate. 50 microwatts max.

Operating Temperature: 0 °C to 50 °C

Input Power: External power supply (S.I.Tech #2121-110VAC to 12VDC)

Metal Enclosure: 3.6 x 2.3 x 1.0 in (9.1 x 5.8 x 2.54 cm) (Flange mount option)

Weight: 0.25 lb (100 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
10 SM	1.0	10000	33000

* High power option available for multimode SM Single Mode (1300nm)

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

Specifications subject to change without notice.



TYPICAL APPLICATION SCADA SYSTEM

