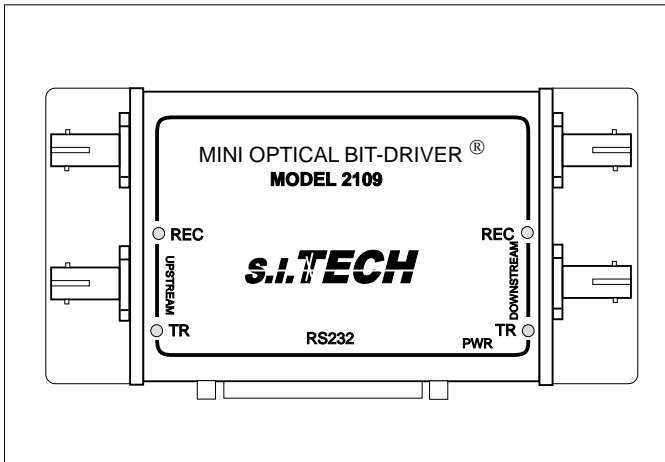


Optical Mini Multidrop Bit-Driver[®]



Features:

S.I. Tech model 2109 is a mini optical Multidrop Bit-Driver[®]. The upstream and downstream fiber ports repeat data through the 2109 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 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)
Panel or DIN rail mounting 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
** SM Single Mode (1300nm) option

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



TYPICAL APPLICATION SCADA SYSTEM

