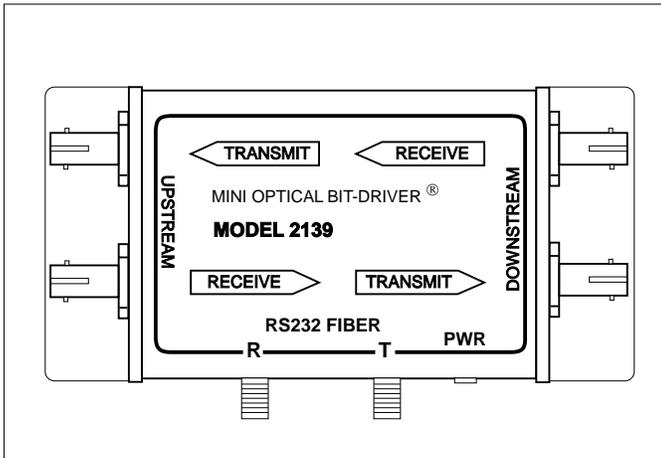


Model 2139



Optical Mini Multidrop Bit-Driver[®]



Features:

S.I. Tech model 2139 is a mini multidrop optical Bit-Driver[®] that contains three fiber ports. The upstream and downstream fiber ports repeat data through the 2139 multidrop and drop/insert data on the RS-232 fiber port. The RS-232 fiber port inserts data onto upstream fiber port only and gets data dropped from upstream fiber port only. The downstream fiber port only sends/receives data from the upstream fiber port. Having fiber on all three ports provide total optical isolation to attached equipment.

OPERATING DISTANCE FOR FIBER OPTIC CABLE (UPSTREAM AND DOWNSTREAM)

Fiber Size (Microns)	Attenuation dB/Km	Distance* Meters	Distance* Feet
50	3.0	2000	6600
62.5	4.0	2000	6600
10 SM	1.0	7000	23000
1000 Plastic	150	100	330

* High power option available for 50 & 62.5 micron fiber SM - Single mode option (1300nm)

- 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 for plastic fiber)
- Optical Power into a 62.5 Micron Core Optical Fiber:** 10 microwatts, 13 dB power budget @ 850 nanometers
- Receiver Sensitivity:** 500 nanowatts at less than 10^{-9} bit error rate. 50 microwatts max.
- Operating Temperature:** 0 °C to 50 °C
- Input Power:** + 12 VDC (Use S.I.Tech 2121 Power Supply)
- Metal Enclosure:** 4.80 x 2.25 x 1.0 in (12.2 x 5.71 x 2.54 cm)
Panel or DIN rail mounting option
- Weight:** 0.4 lb. (200 grams)

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



TYPICAL APPLICATION SCADA SYSTEM

