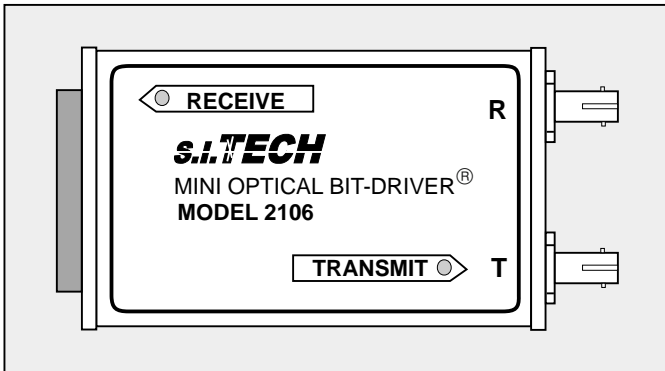


# Optical Asynchronous Mini Bit-Driver<sup>®</sup> Point to Point



**Features:**

- 50 to 115.2 Kbps asynchronous, simplex or full duplex operation
- 6600 ft (2 Km) distance capability
- 0 °C to 50 °C operating range
- ST connector receptacles (SMA option)
- RS-422 or 4 Wire RS-485
- Can be used with T-Network

**RS - 422 PINS UTILIZED BY 2106 MINI BIT - DRIVER<sup>®</sup>  
9 PIN CONNECTOR - FEMALE (MALE OPTION)**

Pin No.	Description	Symbol
1	Ground	
3	Transmit Data (+)	T +
4	Receive Data (+)	R +
5	Ground	
6	Receive Data (-)	R -
9	Transmit Data (-)	T -

**Operation Mode:** Asynchronous, simplex or full duplex

**Input/Output Interface:** RS-422, 9 pin type D, (4 Wire RS-485)  
Asynchronous at 50 to 115.2 Kbps, connects directly to terminal (RS-422 cable not required)

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

**Transmission Distance:** 6600 Ft (2 Km).

**Optical Power into a 50 Micron**

**Core Optical Fiber:** 0.5 microwatt, 10 dB power budget\* @ 880 nanometers

**Receiver Sensitivity:** 50 nanowatts at less than 10<sup>-9</sup> bit error rate

**Operating Temperature:** 0 °C to 50 °C

**Metal Enclosure:** 1.75 x 3 x 0.625 in (4.5 x 7.5 x 1.6 cm)  
Panel or DIN rail mounting option

**Weight:** 0.25 lb (100 grams)

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

**230V Version:** Use S.I.Tech #2122 power supply

**OPERATING DISTANCE FOR FIBER OPTIC CABLE**

Fiber Size (Microns)	Attenuation dB/Km	Distance Meters*	Distance Feet*
1000	200	100	330
50	3.0	2000	6600
62.5	4.0	2000	6600
100	5.0	2000	6600

\* High power option available  
1000 Micron is plastic fiber, 660nm, SMA connectors

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

