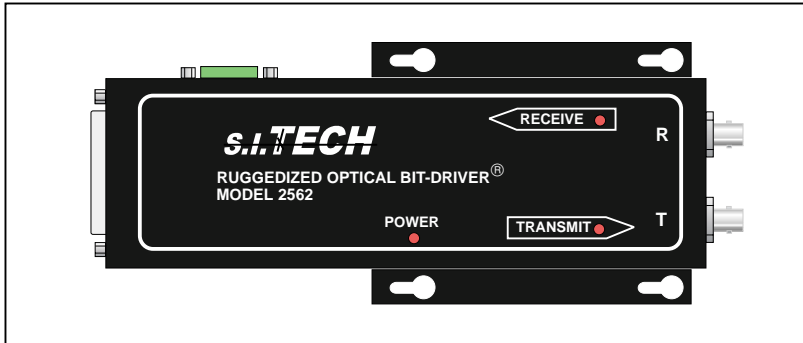


# Optical Asynchronous Ruggedized Mini Bit-Driver<sup>®</sup>



**Features:**

- Up to 115 Kbps asynchronous operation on fiber optic cable, half duplex operation
- -40 °C to + 80 °C operating range\*\*
- Metal ST connector receptacle (SMA option)
- LED indicators for power, transmit, and receive data
- Female DB25 connector
- Complies with IEEE C37.90.1
- IEC 801 Surge Protection
- Panel Mounting Brackets, two mounting locations
- Conformal coating
- See distance chart

**Operation Mode:** Asynchronous, half duplex  
**Input/Output Interface:** RS-485, DB25F connector  
**Transmission Line Interface:** Metal ST connector is standard for interfacing with fiber optic duplex cable (SMA option, SC and FC option for SM)  
**Transmission Distance:** See Chart  
**Optical Power into a 62.5 Micron Core Optical Fiber:** 30 microwatts, 10 dB power budget @ 820 nanometers (1300 nm Option)  
**Receiver Sensitivity:** 3 microwatts at less than 10<sup>-9</sup> bit error rate  
**Operating Temperature:** -40 °C to +80 °C for Multimode  
 -20 °C to +60 °C for Single mode  
**Humidity:** 0 to 90% Non Condensing  
**Metal Enclosure:** 7.25 X 2.28 X 1.3 in (18.4 X 5.8 X 3.3 cm)  
**Weight:** 0.9 lb. (400 grams)  
**Input Power:** 85 V to 265 VAC or DC (+24 VDC and -48 VDC Option)  
**Card Version:** S.I.Tech #2362 with Series 3000 Rack

**RS - 485 CONNECTOR PINS UTILIZED BY 2562 MINI BIT - DRIVER (FEMALE)**

Pin No.	Description	Symbol
1	Protective Ground	Chassis GND
7	Signal Ground	Sig. GND
14	Data +	D+
15	Data -	D-

**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
10 SM**	1.0	10000	33000

\* High power option available. SM - Single mode (1300nm) option  
 Optical unit connection: Connect the optical transmission line to the T and R receptacles. Note which cable channel goes to T or R by noting cable imprint. On the other end, reverse the connection.  
 \*\* SM - Temperature Rating: -20 °C to +60 °C

**DATA SPEEDS (bps) (DIP Switch)-RS485**

Data Rate	SW1	SW2	SW3	SW4
300	UP	DOWN	UP	DOWN
1200	DOWN	UP	UP	DOWN
2400	UP	UP	UP	DOWN
4800	DOWN	DOWN	DOWN	UP
9600	UP	DOWN	DOWN	UP
14.4K	DOWN	UP	DOWN	UP
19.2K	UP	UP	DOWN	UP
28.8K	DOWN	DOWN	UP	UP
38.4K	UP	DOWN	UP	UP
57.6K	DOWN	UP	UP	UP
115.2K	UP	UP	UP	UP

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

*Specifications subject to change without notice.*

