

Optical Asynchronous Ruggedized Mini Bit-Driver



Features:

- Up to 115 Kbps asynchronous operation on fiber optic cable, simplex or full 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, simplex or full duplex

Input/Output Interface: RS-422, DB25F connector

Transmission Line Interface: Metal ST connector is standard for interfacing with fiber optic du plex cable (SMA option, SC and FC option for SM)

Transmission Distance: See Chart

Optical Power into a 62.5 Mic ron

Core Optical Fiber: 30 microwatts, 10 dB power budget @ 820 nanometers (1300 nm Option)

Receiver Sensitivity: 3 microwatts at less than 10⁻⁹ 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 #2361 with Series 3000 Rack

RS - 422 CONNECTOR PINS UTILIZED BY 2561 MINI BIT - DRIVER (FEMALE)

| Pin No. | Description | Symbol |
|---------|-------------------|-------------|
| 1 | Protective Ground | Chassis GND |
| 7 | Signal Ground | Sig. GND |
| 14 | Transmit Data + | T+ } Output |
| 15 | Transmit Data - | T- } |
| 21 | Receive Data + | R+ } Input |
| 22 | Receive Data - | R- } |

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

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

Specifications subject to change without notice.



TYPICAL APPLICATION

