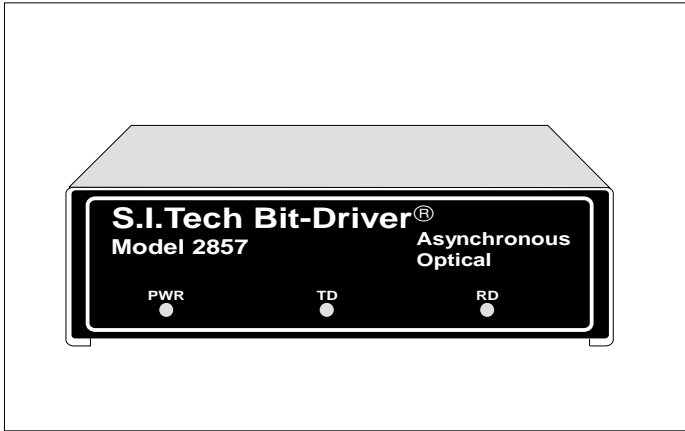


# Model 2857



## RS-422 to Fiber Optic Bit-Driver®



The S.I.Tech Model 2857 is designed for high speed RS-422 data communication using fiber. This system uses 4 wire RS-422.

- Operation Mode:** Asynchronous, simplex or full duplex, 20 Mbps
- Input/Output Interface:** RS-422, 4 wire terminal block
- Transmission Line Interface:** 2 ST fiber optic receptacles (SMA option)
- Transmission Distance:** See distance chart
- Transmitter Output Power:** 30 microwatts into 50 micron fiber
- System Wavelength:** 820 nanometers (1300 nm option)
- Minimum Sensitivity:** 3 microwatts @ 820 nanometers at less than  $10^{-9}$  bit error rate
- Operating Temperature:** 0 °C to 50 °C
- Input Power:** 110 VAC 60 Hz
- Metal Enclosure:** 7.5" x 7" x 3" (19 x 17.8 x 7.6 cm)
- 1U 19" Rack:** 17"W x 1.75"H x 7.5"D (43.2 x 4.3 x 19.0 cm)
- Weight:** 3 lbs. (1.36 kg)
- 230 Volt Version:** 2857V

Meets FCC Requirements of Class A, Part 15 Computing Device Standard. UL & CSA listed.  
Specifications subject to change without notice.

### Operating Distance for Fiber Optic Cable

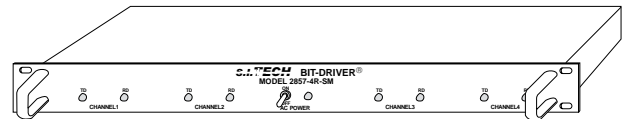
| Fiber Size (Microns) | Attenuation (dB/Km) |      |      | Distance (Meters) |       |       | Distance (Feet) |       |       |
|----------------------|---------------------|------|------|-------------------|-------|-------|-----------------|-------|-------|
|                      | Wavelength (nm)     |      |      | Wavelength (nm)   |       |       | Wavelength (nm) |       |       |
|                      | 850                 | 1300 | 1550 | 850               | 1300  | 1550  | 850             | 1300  | 1550  |
| 50                   | 3.0                 | 1.0  | -    | 2000              | 6000  | -     | 6600            | 20000 | -     |
| 62.5                 | 4.0                 | 1.0  | -    | 2000              | 6000  | -     | 6600            | 20000 | -     |
| 10 SM*               | -                   | 0.35 | 0.25 | -                 | 10000 | 12000 | -               | 33000 | 40000 |

\* 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.

### Related Products

#### Model Numbers

- 2857 RS422 to Fiber, Multimode, 110VAC, ST
- 2857-V RS422 to Fiber, Multimode, 230VAC, ST
- 2857-SM RS422 to Fiber, Single Mode, 110VAC, ST
- 2857-2R RS422 to Fiber, 2 Ch Rack Mounted, 110VAC, ST
- 2857-4R RS422 to Fiber, 4 Ch Rack Mounted, 110VAC, ST
- 2857-4R-SM RS422 to Fiber, 4 Ch Rck Mnt, Single mode, 110VAC, ST



### TYPICAL APPLICATION

