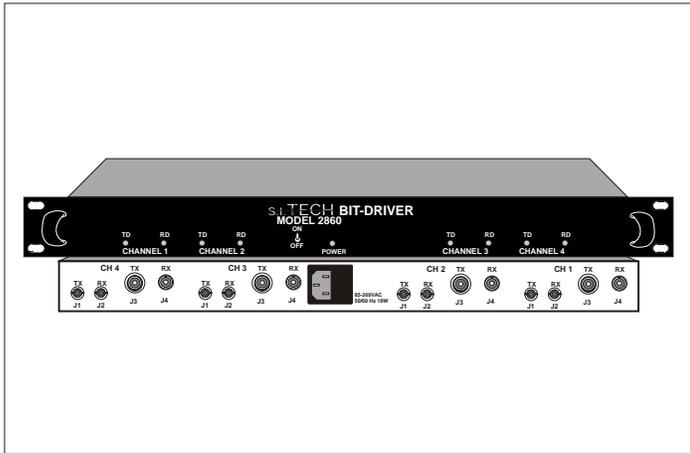


Model 2860

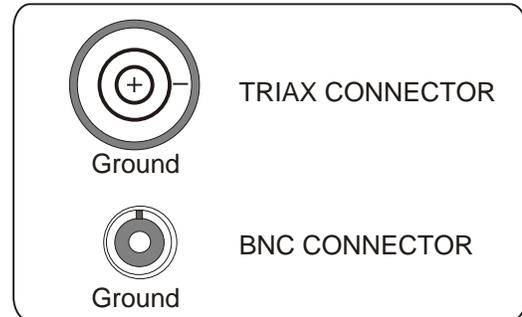


RS-422 and TTL to Fiber Optic Bit-Driver



The S.I.Tech Model 2860 is designed for high speed RS-422 and TTL data communication using fiber. This system uses TRIAX and BNC connectors for interfacing to high speed network. The model 2860 provides 4 independent channels for data, clock, etc.

- Ruggedized for Field Application (Option)
- Conformal Coated (Option)



Operation Mode: Asynchronous, simplex or full duplex, 20 Mbps

Input/Output Interface: RS-422/TTL, 4 channel system, 4 Triax & 4 BNC connectors

Transmission Line Interface: 8 ST connector fiber optic receptacles (SMA option)

Transmission Distance: 2 Km - 6600 ft. (5 Km option)

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 (-20 to +60°C for SM)

Input Power: 110 VAC 60 Hz (18 to 36VDC Option)

Metal Enclosure: 1U 19" rack
17"W X 1.75"H X 7.5"D
(43.2 X 4.3 X 19.0 CM)

Weight: 5 lbs. (2.3 kg)

230 Volt Version: 2860V

Operating Distance for Fiber Optic Cable

Fiber Size (Microns)	Attenuation dB/Km	Distance Meters	Distance Feet
62.5	4.0	2000	6600
50	3.0	2000	6600
10SM*	1.0	10000	33000

* Single mode (1300nm) option (SC, ST, or FC)

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.

Note:

2860-4R-SM: 4 CH, Single Mode

J3: RS422 Input

J4: TTL Output

Meets FCC Requirements of Class A, Part 15 Computing Device Standard. UL listed.

Specifications subject to change without notice.

TYPICAL APPLICATION

