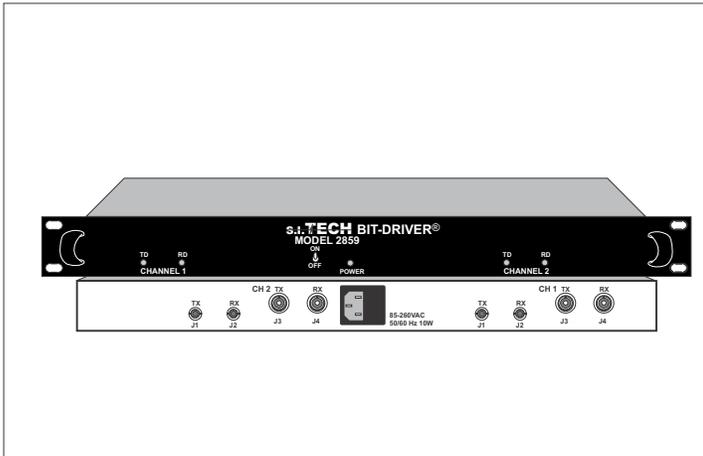


Model 2859



RS-422 to Fiber Optic Bit-Driver[®]



The S.I.Tech Model 2859 is designed for high speed RS-422 data communication using fiber. This system uses triax connectors for interfacing to high speed network. The model 2859 provides 2 independent channels for data, clock, etc.



T+ } Input (J3)
T- }

R+ } Output (J4)
R- }

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

Input/Output Interface: RS-422, 2 channel system, 4 Triax connectors

Transmission Line Interface: 4 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

Storage Temperature: -40 °C to +80 °C

Humidity Non-Condensing: 0 to 95%

(Storage & Operational)

Input Power: 85 to 260VAC 50/60Hz 10W

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)

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.

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

