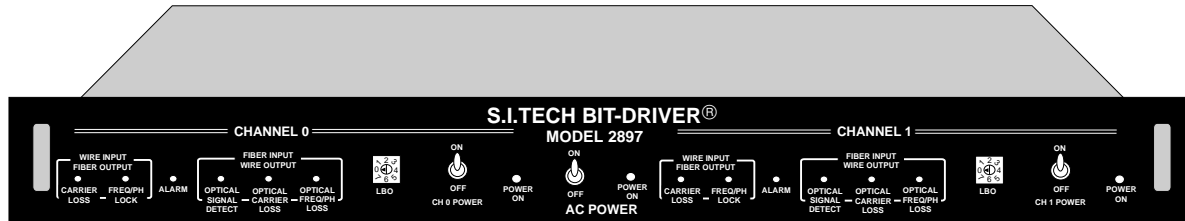


T3/E3/STS1 to Fiber Bit-Driver®



Operation Mode: Synchronous, half/full duplex
 2CH 44.736 Mbps, T3
 2CH 34.368 Mbps, E3 (G.703)
 2CH 51.84 Mbps, STS-1 (OC-1)

Input/Output Interface: T3, 75 Ω Coax (BNC)
 E3, 75 Ω Coax (BNC)

Transmission Line Interface: 4 ST Fiber Optic Receptacles

Connector Options: ST, SC, or FC

Transmission Distance: 6600 ft. or 2 Km

Distance Options: 5 Km, 10 Km, and Single mode

Transmitter Output Power: 30 Microwatts into 50 Micron fiber

Receiver Wavelength: 820 nm or 1300 nm

Minimum Sensitivity: 3 Microwatts @ 820 nanometers

Bit Error Rate: 10⁻⁹

Operating Temperature: -20 °C to 70 °C

Metal Enclosure: 7.5" X 7" X 3"

(19 X 17.8 X 7.6 cm)

1U Rack Mounting Option: 17.0"W X 1.7"H X 7.5"D

(43.2 X 4.3 X 19.0 cm)

Weight: 3 lb.(1.36 kg)/Rack 6 lb.(2.72kg)

Input Power: 110 VAC, 60 Hz, 10W

Power Options: 110 VAC, 220VAC, or 48VDC

Features:

- T3, E3, or STS-1 (OC-1)
- Local/Remote Loopback
- Status indicators & alarms for ease of use and maintenance
- Multimode or single-mode fiber option
- Up to 25 km at low cost
- Ref: 2893-2R

S.I.Tech 2897/2898/2899 Bit-Driver is designed to work with T3, E3, or STS-1 systems. Model 2897/2898/2899 is a T3, E3, or STS-1 to fiber optic transmitter/receiver full duplex product implementing T3, E3, or STS-1 protocol. 2CH normal operating data rate is 44.736 Mbps. (E3 - 34.368 Mbps, STS1 - 51.84 Mbps)

This fiber optic Bit-Driver product eliminates many disadvantages of metallic T3, E3, or STS-1 signals, especially EMI/RFI, ground loops (electrical isolation with fiber), high attenuation (high signal loss), limiting distance between nodes of system, and potential lightning damage outdoors between buildings.

S.I.Tech Model 2897/2898/2899 is a rack mounted product allowing easy change from T3, E3, or STS-1 to fiber. Simply connect T3, E3, or STS-1 cable to model 2897/2898/2899 input/output port. Model 2893/2894/2895 comes with power supply and status indicators.

ORDER INFORMATION

Model Numbers*

2897(T-3), 2898(E-3), 2899(STS-1 or OC-1) units available with several options.
 XXXX - ST Rack mounted, 110 VAC, ST
 XXXX - SM - SC Rack mounted, Single mode, SC, 110 VAC
 XXXX - V 220 Volt AC Power unit
 XXXX - 48 48 VDC Power unit
 XXXX - SM - HP - SC Rack mounted, Single mode, High power, 110 VAC, SC
 XXXX/850/1300 Unit for use with WDM

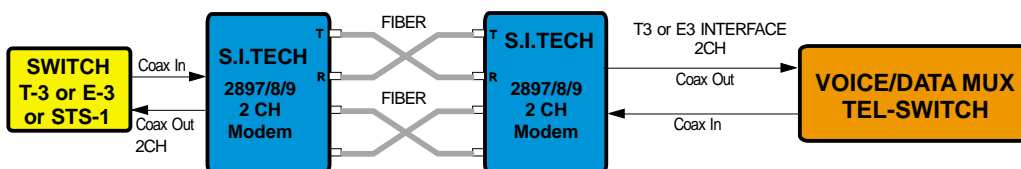
S.I.Tech supplies 2897/2898/2899 models with many different options to match customer specific applications. Specify correct part number for your applications.

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 or 1550nm) option (for longer distances, contact factory)

TYPICAL APPLICATION



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

Specifications subject to change without notice.