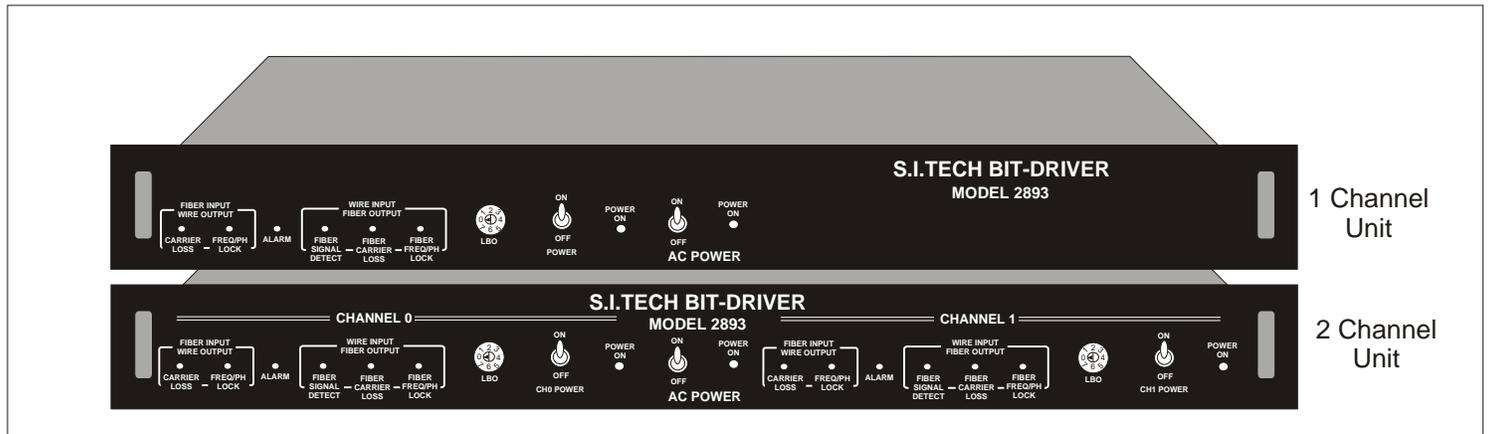


# Model 2893 (T3) / 2894 (E3) / 2895 (STS-1 or OC-1) **S.I.TECH**

## T3/E3/STS1 to Fiber Bit-Driver



### Specifications:

- Operation Mode:** Synchronous, half/full duplex  
44.736 Mbps, T3  
34.368 Mbps, E3 (G.703)  
51.84 Mbps, STS-1 (OC-1)
- Input/Output Interface:** T3, 75 ohm Coax (BNC)  
E3, 75 ohm Coax (BNC)
- Transmission Line Interface:** 2 ST fiber optic receptacles
- Connector Options:** ST, SC, and FC
- Transmission Distance:** 6600 ft. (2km)
- Distance Options:** 5 km, 10 km, and single-mode
- Transmitter Output Power:** 30 Microwatts into 50 Micron fiber (SM option)
- System Wavelength:** 820nm or 1300nm
- Minimum Sensitivity:** 3 Microwatts @ 820 nanometers
- Bit Error Rate:**  $10^{-9}$
- Operating Temperature:** 0 °C to 50 °C
- 1U Rack:** 17.0"W X 1.7"H X 7.5"D  
(43.2 X 4.3 X 19.0 CM)
- Weight:** Rack 6 lb.(2.72kg)
- Input Power:** 110 VAC, 60 Hz, 10W
- Power Options:** 2893/2894V(230 VAC)  
2893/2894 (-48 VDC)

### Features:

- T3, E3, or STS-1 (OC-1)
- Status indicators & alarms for ease of use and maintenance
- Multimode or single mode fiber option
- Up to 25 km at low cost
- Optical link failure alarm built in

S.I.Tech 2893/2894/2895 Bit-Driver is designed to work with T3, E3, or STS-1 systems. Model 2893/2894/2895 is a T3, E3, or STS-1 to fiber optic transmitter/receiver full duplex product implementing T3, E3, or STS-1 protocol. Normal operating data rate for T3 is 44.736 Mbps. (E3 - 34.368 Mbps, STS1 - 51.84 Mbps)

This fiber optic Bit-Driver product eliminates many disadvantages of T3, E3, or STS-1 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 2893/2894/2895 is a rack mounted product allowing easy change from T3, E3, or STS-1 to fiber. Simply disconnect T3, E3, or STS-1 cable and connect to model 2893/2894/2895 input/output port. Model 2893/2894/2895 comes with power supply and status indicators.

### ORDERING INFORMATION

#### Model Numbers

- 2893(T-3), 2894(E-3), 2895(STS-1 or OC-1) units available with several options.
- XXXX - R - ST Rack mounted, 110 VAC, ST
- XXXX - 2R - ST 2 Channel Rack Mounted, 110 VAC, ST
- XXXX - R - SM - SC Rack mounted, Single mode, SC, 110 VAC
- XXXX - V 220 Volt AC Power unit
- XXXX - 48 48 VDC Power unit
- XXXX - R - SM - HP - SC Rack mounted, Single mode, High power, 110 VAC, SC
- XXXX/850/1300 Unit for use with WDM

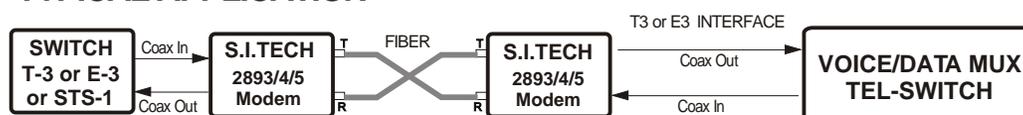
S.I.Tech supplies 2893/2894/2895 models with many different options to match customer specific applications. Specify correct part number for your application.

### 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
SM-HP(15)	0.2	70Km	

\* Single mode (1300nm or 1550nm) option  
(High power option available for long distances)

### TYPICAL APPLICATION



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

*Specifications subject to change without notice.*