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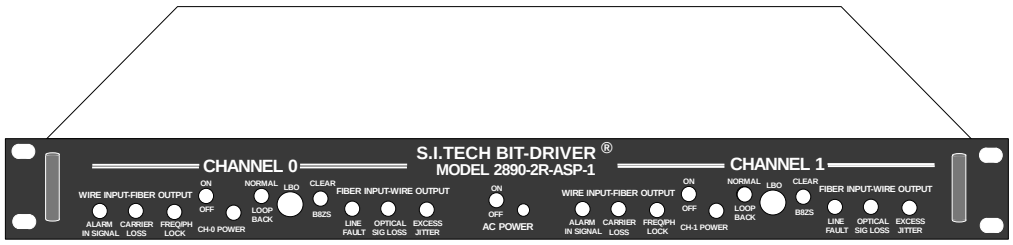
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Model 2890-2R-ASP-1

S.I.TECH

T1 to Fiber Bit-Driver®



Operation Mode: Synchronous, half/full duplex 1.54 Mbps (DS-1 protocol)
Input/Output Interface: T1 - 15 Pin Conn. TP-110 Ω 2 CH
Transmission Line Interface: 4 ST connectors
Transmission Distance: See distance chart
Transmitter Output Power: 25 Microwatts into 50 Micron fiber (820nm & 1300nm options)
Receiver Wavelength: 820 nm
Minimum Sensitivity: 3 Microwatts @ 820 nanometers
Bit Error Rate: 10^{-9}
Line Bit Rate: 1.54 Mbps
Line Code: Manchester Encoded Data
Dynamic Range: 10 db
Frame Structure: T1
Operating Temperature: 0 °C to 50 °C
Relative Humidity: 95%
Mean Time Between Failure: MTBF @ 25 °C = 350,000 Hours
MTBF @ 50 °C = 150,000 Hours
[Bellcore test method used]
Metal Enclosure: 17.0"W X 1.7"H X 7.5"D (43.2 X 4.3 X 19.0 cm)
Designed for 19" Rack, IU High Rack
Weight: 3 lb.(1.36 kg)/Rack 6 lb.(2.72kg)
Input Power: 85 to 240 VAC, 50/60 Hz, 20 W

Features:

- T1 (DS 1) AMI or B8ZS over 2 fibers
- Provides clear channel capability
- Status indicators & alarms for ease of use and maintenance
- Multimode or single-mode fiber option
- Up to 10 km at low cost
- Optical link failure alarm build in

S.I.Tech 2890-2R-ASP-1 Bit-Driver is designed to work with T1 systems. Model 2890-2R-ASP-1 is a T1 to fiber optic transmitter/ receiver full duplex product implementing T1 protocol, contains 2 channels rack mounted, and has an automatic switchable power unit.

This fiber optic Bit-Driver product eliminates many disadvantages of metallic T1 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 2890-2R-ASP-1 Bit-Driver is a rack mount product allowing easy change from T1 to fiber. Simply connect T1 cable to Model 2890-2R-ASP-1 input/output port. Model 2890-2R-ASP-1 comes with power supply (85 to 240 VAC) and status indicators. Unit works with 85 to 240 VAC input power, 50/60 Hz, 20 W. Power can be switched ON or OFF on eack channel.

FEMALE DB15 I/O CONNECTIONS

Pin #	Name	Function
1	TTIP	OUTPUT
2	Signal Ground	
3	RTIP	INPUT
9	TRING	OUTPUT
11	RRING	INPUT

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)

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

For application engineering assistance: 630-761-3640 FAX: 630-761-3644 S.I.Tech, P.O.Box 609, Geneva, Illinois 60134 U.S.A. Web site: http://www.sitech-bitdriver.com.
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