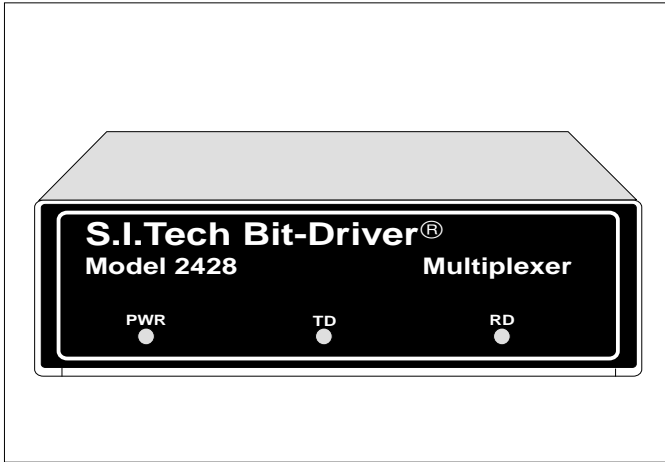


# Asynchronous Time Division Multiplexer



Model 2428/2458 is an 8 channel communication system providing 8 Bit-Driver links using one optical cable interface.

The 2428 provides 8 full duplex RS422 channels for any data rate on any channel(s) up to 76.8 Kbps.

The 2458 provides 8 half duplex RS485 channels. The data rate must be set at the factory for data rate up to 76.8 Kbps.

### PIN ASSIGNMENT FOR THE DB37 CONNECTOR

FUNCTION RS422	CHANNEL NUMBER							
	1	2	3	4	5	6	7	8
TX+	37	35	33	31	29	27	25	23
TX-	19	17	15	13	11	9	7	5
RX+	36	34	32	30	28	26	24	22
RX-	18	16	14	12	10	8	6	4
Signal Ground	1, 2, 3, 20, 21							

FUNCTION RS485	CHANNEL NUMBER							
	1	2	3	4	5	6	7	8
Data+	37	35	33	31	29	27	25	23
Data-	19	17	15	13	11	9	7	5
Signal Ground	1, 2, 3, 20, 21							

Note: Order 8-to-1 RS422/RS485 Cable #7028 or 7058

- Operation Mode:** Asynchronous, RS422 simplex or full duplex. RS485 half duplex.
- Input/Output Interface:** RS422/RS485 up to 76.8 Kbps
- Input/Output Connector:** 37 pin female (DB37)
- Phase Distortion:** Less than 10%
- Optical Connector:** ST standard (SMA option)
- Transmission Distance:** 6600 ft. (2 Km, 5 Km option)
- Optical Power into a 62.5/125 micron Fiber:** 10  $\mu$ W (50  $\mu$ W option)
- Receiver Sensitivity:** 0.5 Microwatt @ 10<sup>-9</sup> BER
- System Wavelength:** 850 nm, (1300 nm option)
- Bit Error Rate:** 10<sup>-9</sup>
- Operating Temperature:** 0 °C to 50 °C
- Metal Enclosure:** 7.5" X 7" X 3" (19 X 17.8 X 7.6 cm)
- Weight:** 3 lbs.(1.36 kg)/Rack 6 lbs.(2.72kg)
- Input Power:** 105 to 130 VAC 60 Hz
- 230 Volt Version:** 2428V/2458V

### 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
100	5.0	2000	6600
10 SM*	1.0	7000	23000

\* Single mode (1300nm) option  
(High power option available for longer distance)

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

### TYPICAL APPLICATION

