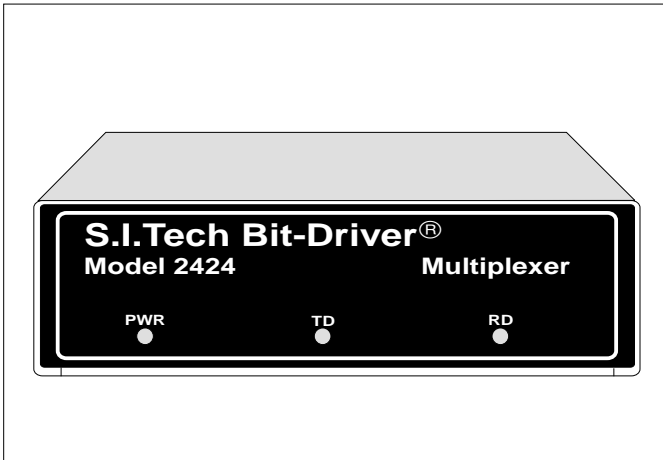


Asynchronous Time Division Multiplexer



Model 2424/2454 is a 4 channel communication system providing 4 Bit-Driver links using one optical cable interface.

The 2424 provides 4 full duplex RS422 channels for any data rate on any channel(s) up to 256 Kbps.

The 2454 provides 4 half duplex RS485 channels. The data rate must be set at the factory for data rate up to 256 Kbps.

- Operation Mode:** Asynchronous, RS422 simplex or full duplex. RS485 half duplex.
- Input/Output Interface:** RS422/RS485 up to 256 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 μ W (50 μ W option)
- Receiver Sensitivity:** 0.5 Microwatt @ 10⁻⁹ BER
- System Wavelength:** 850 nm, (1300 nm option)
- Bit Error Rate:** 10⁻⁹
- 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:** 2424V/2454V

PIN ASSIGNMENT FOR THE DB37 CONNECTOR

FUNCTION RS422	CHANNEL NUMBER			
	1	2	3	4
TX+	37	35	33	31
TX-	19	17	15	13
RX+	36	34	32	30
RX-	18	16	14	12
Signal Ground	1, 2, 3, 20, 21			

FUNCTION RS485	CHANNEL NUMBER			
	1	2	3	4
Data+	37	35	33	31
Data-	19	17	15	13
Signal Ground	1, 2, 3, 20, 21			

Note: Order 4-to-1 RS422/RS485 Cable #7024 or 7054

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*	1.0	7000	23000

* Single-mode (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

