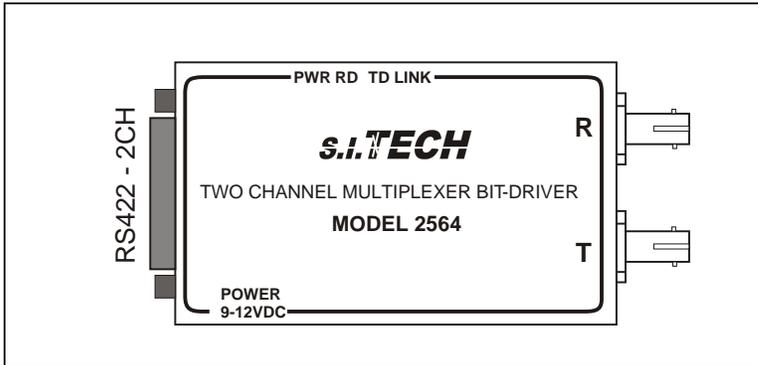# Model 2564

S.I.TECH

Optical Asynchronous Multiplexer

Features:
- 2 Channel RS422 Multiplexer
- Up to 180 Kbps asynchronous operation, each channel
- Full duplex RS422
- Metal ST connector receptacle (SMA option)
- LED indicators for power, optical link status, transmit and receive data
- Multimode or single mode
- DIN rail or panel mounting option

S.I.Tech 2564 is a unique Bit-Driver. The two channel RS422 electrical interfaces are totally independent and share combined fiber link.

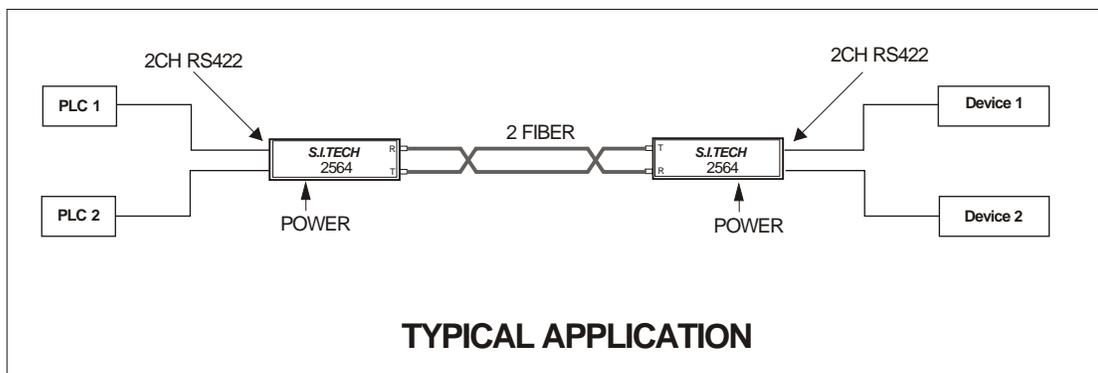|	
Operation Mode:	Asynchronous, simplex or full duplex
Input/Output Interface:	2 CH RS422 Multiplexer DB25 connector
Transmission Line Interface:	Metal ST connector is standard for interfacing with fiber optic duplex cable (SMA option, FC option for SM)
Transmission Distance:	See Distance Chart
Optical Power into a 62.5 Micron Core Optical Fiber:	20 microwatts, 10 dB power budget @ 820 nanometers (1300 nm Option)
Receiver Sensitivity:	2 microwatts at less than 10^{-9} bit error rate
Operating Temperature:	-40 ^{o}C to 85 ^{o}C (-20 ^{o}C to 60 ^{o}C Single Mode)
Metal Enclosure:	3.6" X 2.3" X 1.2" (9.1 X 5.84 X 3.0 cm)
Weight:	0.4 lb. (185 grams)
Input Power:	9 to 12VDC, 200mA

DB25 Female Connector Pinout

Pin No.	Description	
1,7	Signal Ground	
2	Rx1+	Ch1 Output
3	Rx1-	
4	Tx1+	Ch1 Input
5	Tx1-	
16	Term1+	Ch1 Termination
17	Term1-	
14	Rx2+	Ch2 Output
15	Rx2-	
21	Tx2+	Ch2 Intput
22	Tx2-	
6	Term2+	Ch2 Termination
20	Term2-	
Shell	Chassis	

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	5000	16000

* High power option available. SM - Single Mode option
Optical unit connection: Connect the optical transmission line to the T and R receptacles. Note which cable channel goes to T or R by noting cable imprint. On the other end, reverse the connection.

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

(UL) CE

TYPICAL APPLICATION