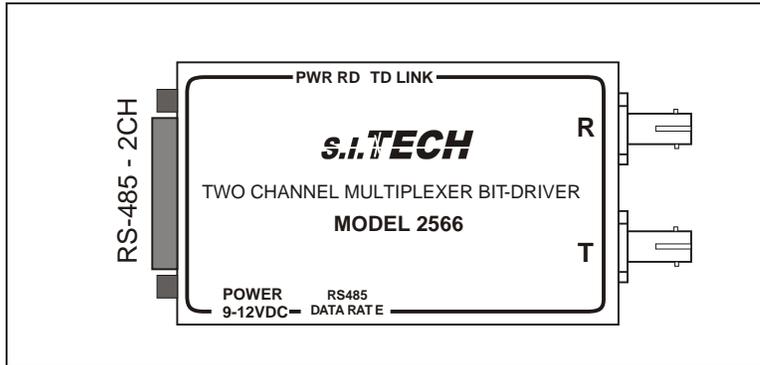


Optical Asynchronous Multiplexer



Features:

- 2 Channel RS-485 Multiplexer
- Up to 115.2 Kbps asynchronous operation, each channel
- Half duplex RS-485 - 2 Wire
- 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 2566 is a unique Bit-Driver. The two channel RS-485 electrical interfaces are totally independent and share combined fiber link.

- Operation Mode:** Asynchronous, simplex or half duplex
- Input/Output Interface:** 2 CH RS-485 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 °C to 85 °C (-20 °C to 60 °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	D1+
3	D1-
16	Term1+
17	Term1-
14	D2+
15	D2-
6	Term2+
20	Term2-
Shell	Chassis

RS-485 Data Rate

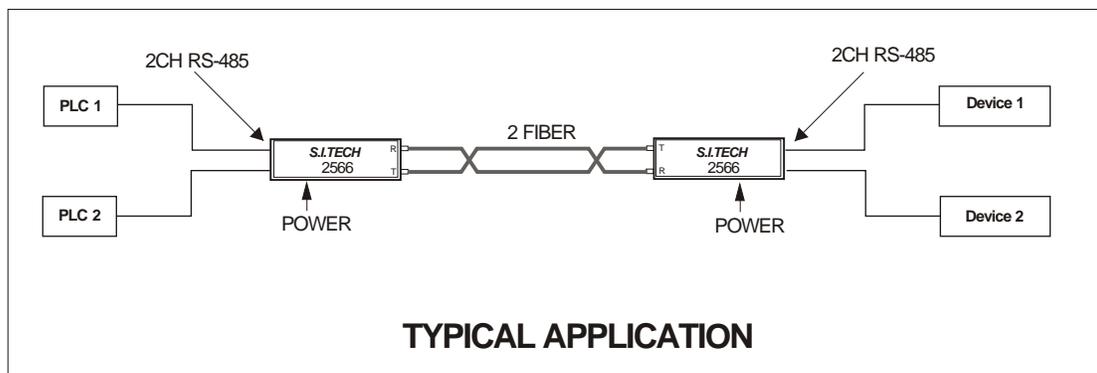
0	1200 bps
1	2400 bps
2	4800 bps
3	9600 bps
4	19.2 Kbps
5	38.4 Kbps
6	76.8 Kbps
7	115.2 Kbps

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.*



TYPICAL APPLICATION