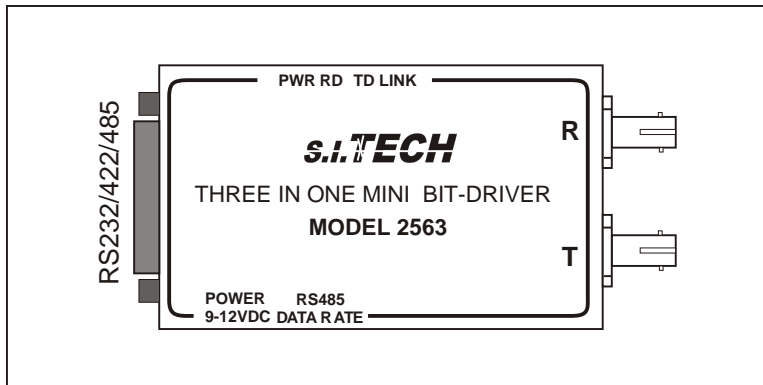


Optical Asynchronous (Three In One) Mini Bit-Driver



Features:

- Concurrent, fully-independent RS232, RS422, and RS485 communication channel over a one duplex fiber optic cable (data is multiplexed over fiber link)
- Up to 115kbps asynchronous operation
- Full duplex RS232 and RS422
 - Optional tri-state control for bus RS422 systems
- Half duplex RS485
 - Rotary switch sets the RS485 bit rate
- Metal ST connector receptacle (SMA option)
- Female DB25 connector RS232 wired as DCE device
- LED indicators for power, optical link status, transmit and receive data
- Optical link status pin
- Multimode or single mode
- DIN rail mounting option

Operation Mode: Asynchronous, simplex or full duplex

Input/Output Interface: Fully independent RS232/RS422/RS485, asynchronous concurrent. DB25 connector

Transmission Line Interface: Metal ST connector is standard for interfacing with fiber optic du plex cable (SMA option, SC and FC option for SM)

Transmission Distance: See Distance Chart

Optical Power into a 62.5 Mic ron

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: 0 °C to 50 °C

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

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.

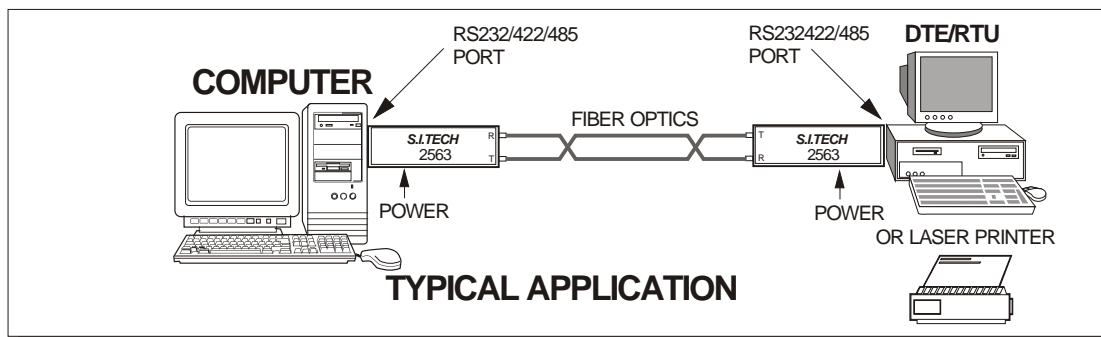
S.I.Tech 2563 is a unique Bit-Driver allowing simultaneous communication using RS232, RS422, and RS485. Each electrical interface is totally independent and share combined fiber link. This way equipment with different interfaces can be connected over the same fiber link i.e. in a manufacturing plant.

DB25 Female Connector Pinout

STD	Pin	Designation	Description	Direction
RS232	2	TD	Transmit Data	Input
	3	RD	Receive Data	Output
	4	RTS	Request to Send	Looped
	5	CTS	Clear to Send	Back
	6	DSR	Data Set Ready	Looped
	20	DTR	Data Terminal Ready	Back
	8	OSD	Optical Signal Detect	Output
	7	SG	Signal Ground	
RS422	1	PG	Chassis Ground	
	12	RS422 Tx+	Transmit Data	Input
	24	RS422 Tx-	Balanced Pair	
	13	RS422 Rx+	Receive Data	Output
	25	RS422 Rx-	Balanced Pair	
RS485	11	SG	Signal Ground	
	23	PG	Chassis Ground	
	10	RS485 D+	Bidirectional Data	Half Duplex
	22	RS485 D-	Balanced Pair	
	11	SG	Signal Ground	
	23	PG	Chassis Ground	

Meets FCC requirements of Class A, Part 15 Computing Devices Standard.

Specifications subject to change without notice.



RS485 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