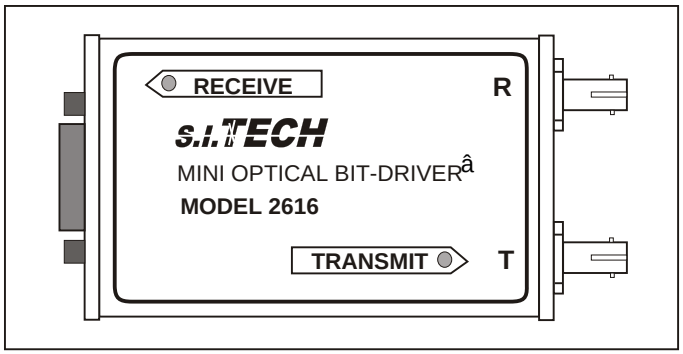
Model 2616

S.I.TECH

Optical Asynchronous Mini Bit-Driver® Point to Point



Features:

- 0 to 115.2 Kbps asynchronous, RS-485 half duplex operation
- 6600 ft. (2Km) distance capability
- -40 °C to +80 °C (-20 °C to +60 °C SM) operating range
- ST connector receptacle (SMA option)
- Designed to work with Siemens Systems or other PLC

Operation Mode: Asynchronous, bi-directional, half duplex

Input/Output Interface: RS-485, 9 pin type D, asynchronous at 0 to 115.2 Kbps*** connects directly to terminal (RS 485 cable not required)

Transmission Line Interface: ST connector is standard for interfacing with fiber optic cable (SMA option)

Transmission Distance: See distance chart

Optical Power into a 50 Micron Core Optical Fiber: 10 microwatts, 10 dB power budget* @ 850 nanometers (1300nm option)

Receiver Sensitivity: 1 microwatt at less than 10^{-9} bit error rate

Operating Temperature: -40 °C to +80 °C (-20 °C to +60 °C SM)

Metal Enclosure: 1.75 x 3 x 0.625 in (4.5 x 7.5 x1.6 cm) Panel or DIN rail mounting options

Weight: 0.25 lb (100 grams)

Input Power: External with power supply (S.I. Tech #2121 - 110VAC to 12 Volt DC)

230V Version: Use S.I.Tech 2122 power supply

*** Data rate must be set at factory

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

RS - 485 9 PIN CONNECTOR - FEMALE
PINS UTILIZED BY 2616 MINI BIT - DRIVER®

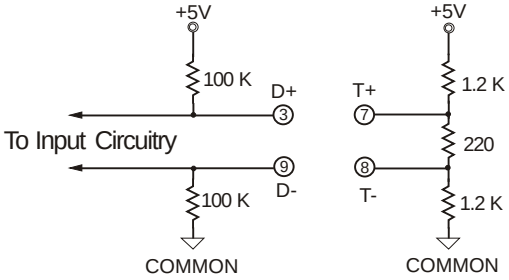
Pin No.	Description	Symbol
1	Signal Ground	SG
2	NC	
3	Data (+)	D +
5	Signal Ground	SG
6	NC	
7	Termination (+)	T +
8	Termination (-)	T -
9	Data (-)	D -

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

* High power option available
** SM - Single mode (1300nm) option

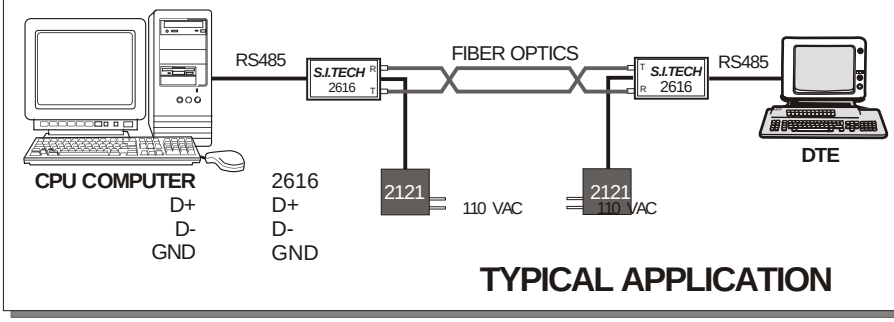
Termination Resistors provided in Bit-Driver



ORDERING INFORMATION

Model Numbers

2616	RS485 to Multimode Fiber, ST
2616-SM	RS485 to Single Mode Fiber, ST
2616-DIN	Multimode, ST, Dinrail Unit
2616-SM-DIN	Single Mode, ST, Dinrail Unit



TYPICAL APPLICATION

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