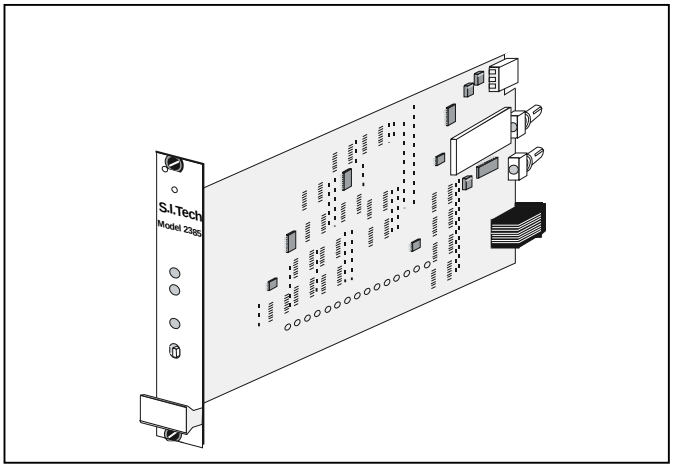
Model 2385

S.I.TECH

Optical Asynchronous Bit-Driver® Point to Point



Features:

- 38.4 Kbps asynchronous half duplex operation
- 6600 ft. (2Km) distance capability
- 0 ^{O} C to + 50 ^{O} C operating range
- ST connector receptacle (SMA option)
- Designed to work with T.I. Systems and with S.I.Tech 2185

Operation Mode: Asynchronous half duplex
Input/Output Interface: RS-485, 8 pin RJ-45, asynchronous at 38.4 Kbps
Transmission Line Interface: ST connector is standard for interfacing with fiber optic cable (SMA option)
Transmission Dictance: 6600 ft. (2 km)
Optical Power into a 50 Micron Core Optical Fiber: 5 microwatts, 10 dB power budget* @ 820 nanometers *(High power option) **
Receiver Sensitivity: 250 nanowatts at less than 10 $^{-9}$ bit error rate
Input Power: S.I.Tech 3000 rack with 4000 powe supply
Operating Temperature: 0 ^{O} C to 50 ^{O} C
Enclosure: 19" rack (holds 16 cards)
Card Size: Eurocard 3.9" x 6.8" (9.9 x 7.3 cm)
Weight: 0.5 lb (200 grams)
Termination: A switch is provided to terminate RS-485 line

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

OPERATING DISTANCE FOR FIBER OPTIC CABLE

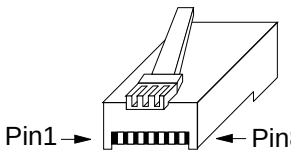
Fiber Size (Microns)	Attenuation dB/km	Distance Meters*	Distance Feet*
50	3.0	2000	6600
62.5	4.0	2000	6600
100	5.0	2000	6600
10**	1.0	7000	23000

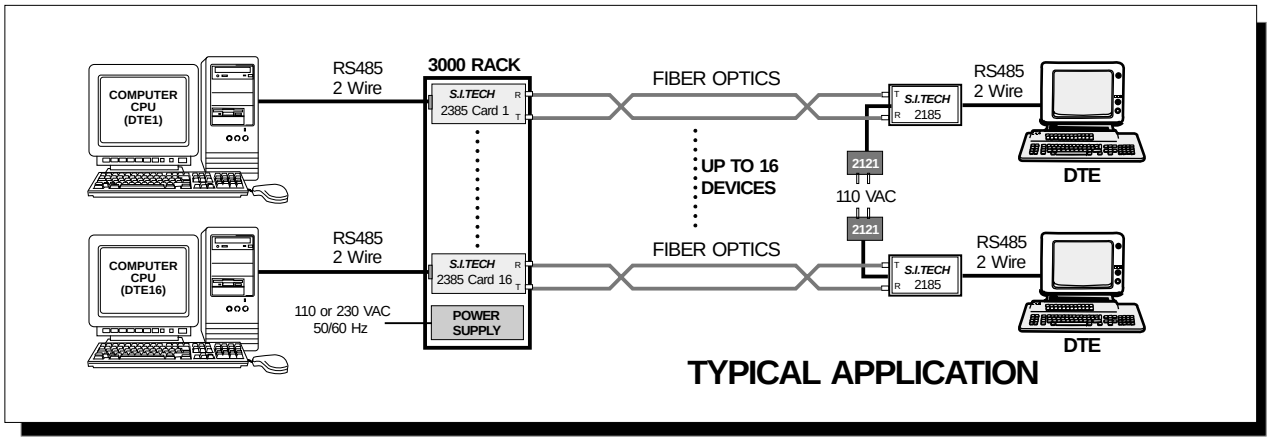
* High power option available
** Single Mode 1300 nm option

RS - 485 PINS UTILIZED BY 2385 CARD
RJ-45 CONNECTOR (FEMALE)

Pin No.	Description	Symbol
1	No Connection	N/C
2	Ground	GND
3	No Connection	N/C
4	Data (Positive)	D +
5	Data (Negative)	D -

RJ-45 Connector (Male)





TYPICAL APPLICATION

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