Model 2559

S.I.TECH

Optical Asynchronous Ruggedized Multiplexer Bit-Driver

Features:
- Up to 115 Kbps asynchronous operation on fiber optic cable, simplex or full duplex operation with 2 channels
- 2 channels RS-232
- $-40\ ^{o}C$ to $+80\ ^{o}C$ operating range (-20 to $+60\ ^{o}C$ SM)
- Metal ST connector receptacle (SMA option)
- LED indicators for power, transmit and receive data
- Female RS-232C (V.24) connector
- Complies with IEEE C37.90.1
- IEC 801 Surge Protection
- Panel Mounting Brackets
- See distance chart

Operation Mode:	Asynchronous, simplex or full duplex 2 CH
Input/Output Interface:	RS-232-C, asynchronous 2 Channels
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 better than 10^{-9} bit error rate
Operating Temperature:	-40 ^{o}C to 80 ^{o}C for multimode -20 ^{o}C to 60 ^{o}C for single mode
Metal Enclosure:	7.25 X 2.28 X 1.3 in (18.4 X 5.8 X 3.3 cm)
Weight:	1.2 lb. (640 grams)
Input Power:	85 V to 260 VAC or DC (+24 VDC and -48 VDC Option)

DB-25 FEMALE CONNECTOR PINS UTILIZED BY 2559 MINI BIT - DRIVER (FEMALE)

Pin No.	EIA DESIG.	Description	Symbol
1	AA	Signal Ground	Chassis Gnd.
2	BA ⎤CH1	Transmitted Data	TXD1
3	BB ⎦	Received Data	RXD1
4	CA ⎤CH2	Transmitted Data	TXD2
5	CB ⎦	Received Data	RXD2
7	AB	Signal Ground	Sig. Gnd.

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 (1300nm) 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.

Ⓤ CE

TYPICAL APPLICATION