Model 2610
Optical Asynchronous Mini Bit-Driver® Point to Point

Operation Mode: Asynchronous, bi-directional, half duplex

Input/Output Interface: RS-485, 9 pin type D, asynchronous at 0 to 115.0 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: 0.5 microwatt, 10 dB power budget* @ 880 nanometers

Receiver Sensitivity: 50 nanowatts at less than 10 -9 bit error rate

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

Metal Enclosure: 1.75 x 3 x 0.625 in (4.5 x 7.5 x 1.6 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

Specifications subject to change without notice.

Features:
- 0 to 115.0 Kbps asynchronous, RS-485 half duplex operation
- 6600 ft. (2Km) maximum distance capability
- -40 °C to +80 °C (-20 °C to +60 °C SM) operating range
- Multimode is standard, Single mode optional
- ST connector receptacle (SMA option)
- Designed to work with Johnson Controls System - N2 Bus or other PLC
- High temperature version of 2110
- For BACNET - order 2610-BAC

Operating Distance for Fiber Optic Cable

<table>
<thead>
<tr>
<th>Fiber Size (Microns)</th>
<th>Attenuation dB/km</th>
<th>Distance Meters*</th>
<th>Distance Feet*</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>3.0</td>
<td>2000</td>
<td>6600</td>
</tr>
<tr>
<td>62.5</td>
<td>4.0</td>
<td>2000</td>
<td>6600</td>
</tr>
<tr>
<td>100</td>
<td>5.0</td>
<td>2000</td>
<td>6600</td>
</tr>
<tr>
<td>10 SM**</td>
<td>1.0</td>
<td>7000</td>
<td>23000</td>
</tr>
</tbody>
</table>

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

Termination Resistors provided in Bit-Driver

Typical Application

RS-485

CPU COMPUTER

D+ D- GND

2610 2121

110 VAC 110 VAC

FIBER OPTICS

S.I.TECH 2610

S.I.TECH 2121

DTE