**Optical Asynchronous Mini Bit-Driver® Point to Point**

**Operation Mode:** Asynchronous, bi-directional, half duplex

**Input/Output Interface:** RS485, 9 pin type D, asynchronous at 0 to 56 Kbps** connects directly to terminal (RS485 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:** 0.5 nanowatts at less than 10^-9 bit error rate

**Operating Temperature:** 0°C to 50°C

**Metal Enclosure:** 1.75 x 3 x 0.625 in (4.5 x 7.5 x 1.6 cm) Panel or DIN rail mounting option

**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.

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**Features:**
- 0 to 56 Kbps asynchronous, RS-485 half duplex operation
- 6600 ft. (2Km) maximum distance capability
- 0°C to +50°C operating range
- ST connector receptacle (SMA option)
- Designed to work with Johnson Controls System - N2 Bus and Bacnet (2110BAC)
- For card version use 2310 (N2 Bus) or 2345 (point to point)
- Cable assembly use 7110 (2110 to N2 Bus)
- Data speed set at the factory

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**Typical Application**

**Model Numbers**

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2110</td>
<td>RS485 to Fiber, Multimode, ST Connector, N2 Bus</td>
</tr>
<tr>
<td>2110BAC</td>
<td>RS485 to Fiber, Multimode, ST Connector, Bacnet</td>
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<td>2610</td>
<td>RS485 to Fiber, Multimode, ST, High Temp.</td>
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<tr>
<td>2110-SM</td>
<td>RS485 to Fiber, Single Mode, ST</td>
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<tr>
<td>2110-SMA</td>
<td>RS485 to Fiber, Multimode, SMA Connector</td>
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<tr>
<td>2110-660</td>
<td>RS485 to Plastic Fiber, SMA Connector</td>
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<tr>
<td>2110-L</td>
<td>RS485 to Fiber, Multimode, High Power (5Km), ST</td>
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<tr>
<td>2110-DIN</td>
<td>RS485 to Fiber, Multimode, ST, DIN Rail Unit</td>
</tr>
<tr>
<td>2110-SM-DIN</td>
<td>RS485 to Fiber, Single Mode, ST, DIN Rail Unit</td>
</tr>
</tbody>
</table>

Notes:
1. Power Supply # 2121 is required for all models (110VAC to 12 VDC).
2. Power Supply #2122 is for 230VAC applications
3. For 2110 rack mounted, use version 2310 (or 2345) Card with 3000 Rack, 4000 Power Supply, and 3520 (or 3500) Motherboard.

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**Ordering Information**


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