Optical Asynchronous/Synchronous Modem

Operation Mode: Asynchronous/Synchronous, full duplex with control signals
Input/Output Interface: RS-232-C
Transmission Line Interface: ST connector is standard for interfacing with fiber optic duplex cable (SMA option)
Optical Power into a 62.5 Micron Core Optical Fiber: 10 microwatts, 15 dB power budget @ 850 nanometers (1300nm option)
Receiver Sensitivity: 300 nanowatts at less than 10^-9 bit error rate
Operating Temperature: 0 °C to 50 °C
Metal Enclosure: 4.0 lb (1.8 kg)
Weight: 7.5" X 7.0" X 3.0" (19 X 17.8 X 7.6 cm)
Input Power: 105 to 130 VAC, 50 to 500 Hz, 10 W
220 Volt Version: Model 2036V

Features:
- Full duplex Asynchronous/Synchronous 64 Kbps with control signals
- 6600 ft. (2Km) maximum distance capability
- 0 °C to + 50 °C operating range
- ST fiber receptacle
- RS232 Interface

RS - 232 CONNECTOR PINS UTILIZED BY 2036 BIT - DRIVER FEMALE (DCE)

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Description</th>
<th>Symbol</th>
<th>DTE</th>
<th>DCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Protective Ground</td>
<td>Ground</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Transmitted Data</td>
<td>TXD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Received Data</td>
<td>RXD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Request to Send</td>
<td>RTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Clear to Send</td>
<td>CTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Data Set Ready</td>
<td>DSR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Signal Ground</td>
<td>Sig. Gnd.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Data Carrier Detect</td>
<td>DCD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>DCE Transmit Clock</td>
<td>TxClock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Receive Clock</td>
<td>Rx Clock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Data Terminal Ready</td>
<td>DTR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>DTE Transmit Clock (Ext)</td>
<td>TXQ</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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>10 SM*</td>
<td>1.0</td>
<td>7000</td>
<td>23000</td>
</tr>
</tbody>
</table>

* Single mode option

Specifications subject to change without notice.

TYPICAL APPLICATION

©2007 S.I.Tech, Inc.