Model 2183

USB2.0 to Fiber Optic Media Converter

Features:
- Supports USB 2.0 over fiber
- Power, Link Status, and Host LED indicators
- LC optical connectors
- Din Rail Mounting Option
- Connects to UHCI, OHCI and EHCI Host
- Improved Operation for Vista Operating System
- Supports USB 1.1 and 2.0 Host Controller
- Works with National Instrument Controllers

S.I.Tech 2183/2184 USB media converter pair extends the range of USB 2.0 beyond the USB 5 meter limit. The USB media converters are compliant with the USB 2.0 specification supporting low speed (1.5 Mbps), full speed (12 Mbps), and high speed (480 Mbps) USB data transfer.

The 2183/2184 are enumerated as generic USB hub and provide a 4-port USB hub at distances up to 2 Km over fiber optic cable. The 2183 connects to host PC through USB type B connector. The 2184 connects to USB peripherals through USB type A connector.

OPERATING DISTANCE FOR FIBER OPTIC CABLE

<table>
<thead>
<tr>
<th>Fiber Size (Microns)</th>
<th>Attenuation dB/Km</th>
<th>Bandwidth MHz/Km</th>
<th>Distance Meters</th>
<th>Distance Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>850nm</td>
<td>850nm</td>
<td>1300nm</td>
<td>850nm</td>
<td>1300nm</td>
</tr>
<tr>
<td>50</td>
<td>3.0</td>
<td>1.5</td>
<td>600</td>
<td>1800</td>
</tr>
<tr>
<td>62.5</td>
<td>4.0</td>
<td>4.0</td>
<td>600</td>
<td>1800</td>
</tr>
<tr>
<td>10 SM</td>
<td>Unspecified</td>
<td>0.4</td>
<td>275</td>
<td>890</td>
</tr>
</tbody>
</table>

SM - Single mode option - 1300nm (Application limits may be exceeded)

Optical Unit Connection: Connect the optical transmission line to the T and R receptacles.

Note which cable channel goes to Tx or Rx by noting cable imprint

If you are using Laser Enhanced multimode fiber, depending upon its bandwidth, longer distances maybe possible.


Specifications subject to change without notice.

Note: 2183/2184 require USB2.0 root hub support from USB 2.0 host controller.
The USB 2.0 host controller will be identified in the Windows Device Manager as “Enhanced” or EHCI controller.