USB3.0 Hub to Fiber Optic Media Converter

**Features:**
- Supports USB 3.0 over fiber
- Support all major operating systems - Windows, Mac, OSX, Linux.
- Power, Link Status, and Host LED indicators
- LC optical connectors
- Plug and Play
- Extend USB 3.0 on multimode fiber up to 100m.
- 2 port hub data speed 5 GigaBits/Second (2188)
- Not backwards compatible with USB1.1 and 2.0

S.I.Tech 2187/2188 USB media converter pair extends the range of USB 3.0 beyond the USB 5 meter limit. The USB media converters are compliant with the USB 3.0 specification supporting full speed of 5Gbs USB data transfer.

**Operation Mode:** USB 3.0

**Input/Output Interface:** USB Type A

**Transmission Line Interface:** LC optical connector is standard

**Transmission Distance:** See distance chart

**System Wavelength:** 850 nm (1310 nm option)

**Bit Error Rate:** 10^-9

**Operating Temperature:** 0°C to 40°C

**Weight:** 0.75 lb (340 grams)

**Input Power:** 5 VDC (4.75 to 5.50 VDC) External with power supply - 5W typical (S.I.Tech #2166 - 100 to 240 VAC, 50/60 Hz, to 24VDC, UL, CE, & TUVGS Listed) Locking Connector

**Metal Enclosure:** 3.9” X 3.0” X 1.0” (100 X 76 X 26 mm)

**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>
<th>Distance Meters</th>
<th>Distance Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>850nm</td>
<td>3.0</td>
<td>1.5</td>
<td>500</td>
<td>165</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1310 nm (OM2)</td>
<td>4.0</td>
<td>1.5</td>
<td>2000</td>
<td>660</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1310 nm (OM3)*</td>
<td>3.0</td>
<td>2.5</td>
<td>4000</td>
<td>1000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1310 nm (OM4)*</td>
<td>-</td>
<td>0.35</td>
<td>-</td>
<td>-</td>
<td>220</td>
<td>660</td>
</tr>
<tr>
<td>10 SM</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</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.

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**Specifications:**
- Specifications subject to change without notice.

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