Model 3184

s.i.¶ECH

USB2.0 Hub to Fiber Optic Media Converter - Highly Shielded



Operation Mode: USB 2.0

Input/Output Interface: USB Type B Transmission Line Interface: ST optical connector is standard Transmission Distance: See distance chart Transmitter Output Power: MMF -9dBm Minimum 62.5micron SMF -9dBm Minimum System Wavelength: 850 or 1300 nm Data Rate: 1.5, (USB 1.0) 12,(USB 1.1) and 480 (USB 2.0) Mbps Bit Error Rate: 10⁻⁹ Receiver Sensitivity: MMF(850nm) -17 dBm minimum MMF(1300nm) -20 dBm minimum SMF(1300nm) -20 dBm minimum Operating Temperature: 0 ^OC to 70 ^OC Weight: 2 lb (900 grams) Input Power: 5VDC External with power supply - 5W typical (S.I.Tech #2166 - L 5VDC, UL, CE, & TUVGS Listed) Metal Enclosure: 9.37"L X 4.25"W X 1.75"H (23.8 X 10.8 X 4.4 cm)

Meets FCC requirements of Class B, Part 15 Computing Devices Standard, USB Standard. Specifications subject to change without notice.

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Features:

- Supports USB 2.0 over fiber
- USB Hub/Port, Hub port provide attached device with 5VDC power (up to 500mA)
- ST optical connectors
- Improved Operation for Vista Operating System
- Supports USB 1.1 and 2.0 Host Controller
- Works with National Instrument Controllers
- Highly Shielded Case Improved EMI/RFI Protection

S.I.Tech 3183 and 3184 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 (1.5Mbps), full speed(12 Mbps), and high speed(480 Mbps) USB data transfer. The 3183 and 3184 provide improved EMI/RFI protection compared to 2183 and 2184.

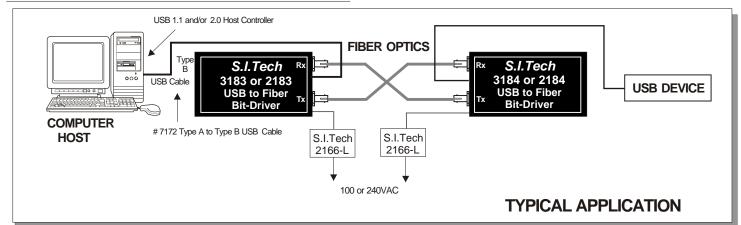
The 3181/3182 are enumerated as generic USB hub and provide a 1-port USB hub at distances up to 2 Km over fiber optic cable. The 3183 connects to host PC through USB type B connector. The 3184 connects to USB peripheral through USB type A connector. The 3183/3184 can be used with 2183/2184.

OPERATING DISTANCE FOR FIBER OPTIC CABLE

Fiber Size (Microns)	Attenuation dB/Km		Bandwidth MHz/Km		Distance Meters		Distance Feet	
	850nm	1300nm	850nm	1300nm	850nm	1300nm	850nm	1300nm
50 62.5 10 SM	3.0 4.0 Unspecified	1.5 1.5 0.4	600 200 Unspecified	600 600 Unspecified	500 275	600 600 5000	1650 900	1800 1800 16000

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 ...

Note: 3183/3184 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.



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