Model 2181

s.i.TECH

USB2.0 to Fiber Optic Media Converter



Operation Mode: Input/Output Interface: Transmission Line Interface: Transmission Distance: Transmitter Output Power:	LC optical connector is standard See distance chart
System Wavelength:	
	1.5 (USB 1.0), 12 (USB 1.1), and
Data Nate.	480 (USB 2.0) Mbps
Bit Error Rate:	
Receiver Sensitivity:	
······································	MMF(1300nm) -20 dBm minimum
	SMF(1300nm) -20 dBm minimum
Operating Temperature:	
	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 5VDC, UL,
	CE, & TUVGS Listed)
Metal Enclosure:	4.75" X 3.75" X 1.000"

Features:

- Supports USB 2.0 over fiber
- Smaller and Compact size than 2172
- · 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 2181/2182 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 2181/2182 are enumerated as generic USB hub and provide a 4-port USB hub at distances up to 2 Km over fiber optic cable. The 2181 connects to host PC through USB type B connector. The 2182 connects to USB peripherals through USB type A connector.

OPERATING DISTANCE FOR FIBER OPTIC CABLE

Fiber Size (Microns)			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

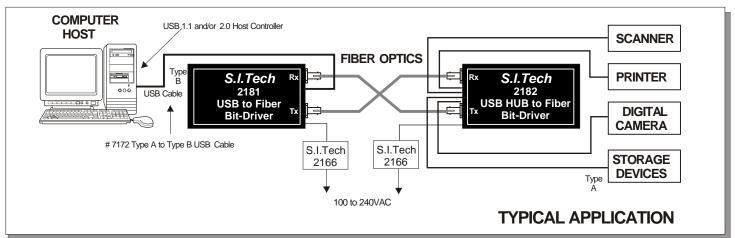
SM - Single mode option - 1300nm (Application limits may be exceeded) Optical Unit Connection: Connect the optical transmission line to the T and R receptacles. Note which cable channel goes to Tx or Rx by noting cable imprint If you are using Laser Enhanced multimode fiber, depending upon its bandwidth, longer distances maybe possible.

Meets FCC requirements of Class B, Part 15 Computing Devices Standard, USB Standard.

Specifications subject to change without notice.



Note: 2181/2182 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.



For application engineering assistance: 630-761-3640 FAX: 630-761-3644 S.I.Tech, P.O.Box 609, Geneva, Illinois 60134 U.S.A. Web site: http://www.sitech-bitdriver.com. ©2012 S.I. Tech, Inc.