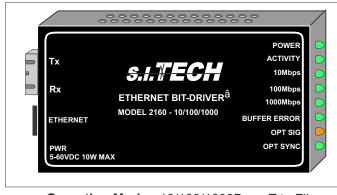
## Model 2160-10/100/1000



## Ethernet to Fiber Bit-Driver<sup>â</sup>



Operation Mode:	10/100/1000Base-T to Fiber
Ethernet Interface:	Shielded RJ-45
Fiber Interface:	LC Connector Std.
Transmission Distance:	See distance chart
System Wavelength:	850, 1310 nm or 1550 nm
Data Rate:	10/100/1000 Mbps
Bit Error Rate:	10 <sup>-12</sup>
<b>Operating Temperature:</b>	
Input Power:	5-60 VDC, 10W. External with
	power supply-S.I.Tech #2164-
	100/240VAC 50/60Hz to 12VDC
	UL, CSA, CE, & TUVGS Listed
Metal Enclosure:	5.75"L X 3.8'W X 1.0"H
	(14.60 X 9.60 X 2.54 cm)
Weight:	0.8 lb. (365 grams)

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

Specifications subject to change without notice.

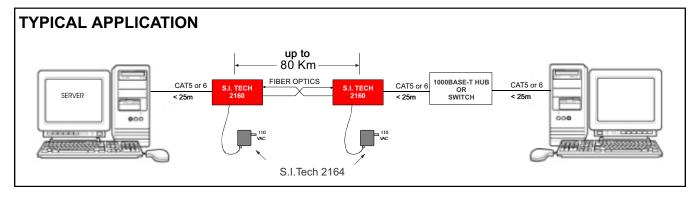


Optical Unit Connection: Connect the optical transmission line to the T and R receptacles. Note which cable channel goes to T or R by noting cable imprint. On the other end, reverse the connections.

	OPERATING DISTANCE FOR OFTIC CABLE											
FIBER SIZE (Microns)		ATTENUATION dB/Km		BANDWIDTH MHz/Km		DISTANCE Meters*		DISTANCE Feet*				
		850 nm	1310 nm	850 nm	1310 nm	850 nm	1310 nm	850 nm	1310 nm			
	50	3.0	1.0	600	600	500	600	1600	1800			
	62.5	3.5	1.0	200	600	200	600	660	1800			
	10 SM	Unspecified	0.4	Unspecified	Unspecified		20000		66000			

ODEDATING DISTANCE FOD ODTIC CADI E

SM - Single mode (High power - long distance option) \* At gigabit data rate, both attenuation and bandwidth of the fiber should be considered to determine distance limit.



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. © 2022 S.I. Tech, Inc.

## Features:

- $\cdot$  Supports IEEE 802.3x 10/100/1000Base-T/1Gbps twisted pair link
- Meets IEEE 803.3x clock jitter and frequency variation specifications
- · Automatic speed detection and adjustment 10/100/1000
- Full duplex operation
- Auto MDI/MDI-X (Automatic detection of straight or crossover twisted pair cables)
- · Automatic master/slave determination
- · LC optical connectors standard
- · Wide range input power: 5 to 60 VDC, 10W
- LED Indicators: Optical Power Detect Optical Receiver Signal Lock Ethernet Link Established 10/100/1000 Operation Activity and Collision
- Available with 850nm multimode or 1310nm or 1550nm single mode optics
- Multiple optical power configurations to support 5, 10,
- 20 to 80 Km fiber runs (single mode only)
- POE option

The S.I.Tech 2160 Bit-Driver is intended to extend the length of Ethernet links to up to 80Km for long haul backbone applications. Once installed the 2160's are completely transparent to the system. Units must be installed in pairs. Network timing limitations, fiber attenuation, and bandwidth may limit maximum transmission distance to less than maximum.