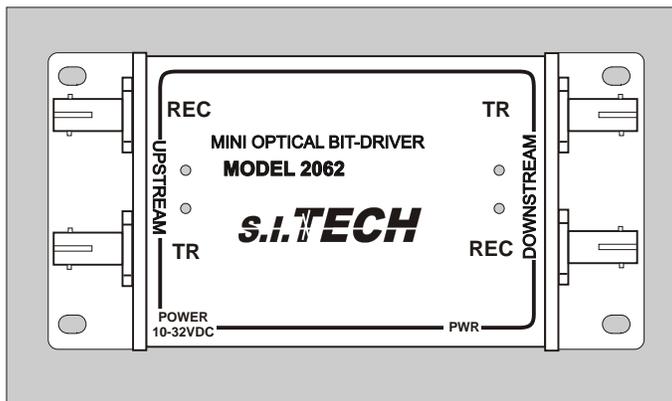


# Optical Repeater Mini Bit-Driver



**Features:**

- Up to 20 Mbps full duplex
- Designed to work with Arcnet, Ethernet, & Token Ring fiber optic LANs
- Up to 2 Km of 50 or 62.5 micron fiber (10 dB budget)
- Powered by wall transformer 12 or 24 VDC supply (part # 2121)
- Multimode or single mode option
- Status indicators - TR and REC
- Can be used as fiber size converter e.g. 50 to 62.5 micron

S.I.Tech 2062 is designed to be used as a repeater on fiber optic networks. This repeater extends the distance of fiber optic Arcnet, Ethernet, Token Ring, TTL or T1/E1 links up to 10 Km. This repeater can be configured to convert from multimode to single mode fiber. The 2062 can also be used to convert from one size of fiber to another, e.g. 50/125 to 62.5/125 micron.

- Operation Mode:** Full duplex NRZ or encoded data
- Input/Output Interface:** ST connectors for all fiber sizes
- Transmission Distance:** 2 Km (50 or 62.5 micron fiber)
- Transmitter Output Power:** 10 dB power budget (10 Km single mode option)
- Optical Coupled Power:** 50 microwatts into 200 micron fiber, 30 microwatts into 62.5 micron fiber, -15 dBm into 9 micron fiber
- Receiver Sensitivity:** 3 microwatts @  $10^{-9}$  bit error rate
- Metal Enclosure:** 5.5" X 2.3" X 1.0" (14.0 X 5.84 X 2.54 cm) Panel or DIN rail mounting option
- Weight:** 0.25 lb (100 grams)
- Input Power:** External with power supply (S.I.Tech #2121 - 110 VAC to 12 VDC)
- 230V Version:** S.I.Tech #2164 power supply

OPERATING DISTANCE FOR FIBER OPTIC CABLE

Fiber Size (Microns)	Attenuation dB/Km	Distance Meters	Distance Feet
50	3.0	2000	6600
62.5	4.0	2000	6600
100	5.0	2000	6600
200	7.0	1000	3300
1000	200	100	330
10*	1.0	7000	23000

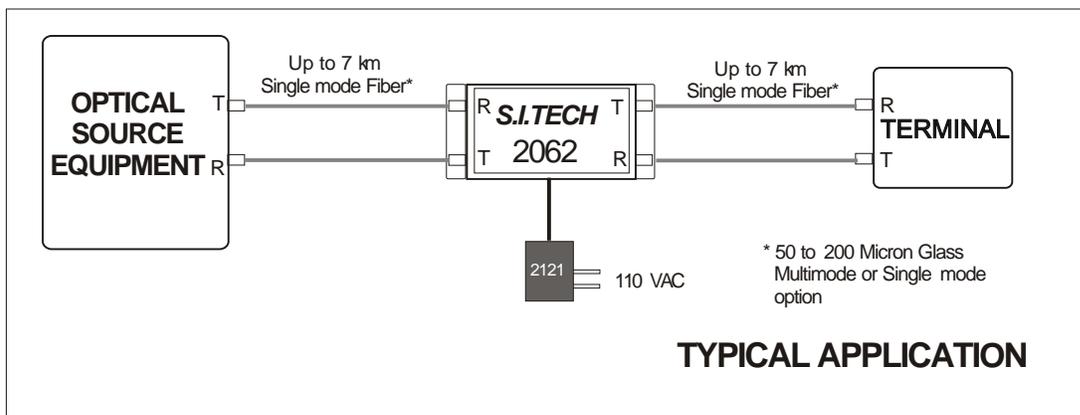
\* Single mode (observe network timing restrictions) option - 1300nm

ORDERING INFORMATION

Model Number	Description
2062-00 ST	1000 Micron Plastic Fiber to 50/62.5 Glass Fiber
2062-O -ST	OMRON 200 to 62.5 Micron - ST**
2062 - ST	Multimode 50/62.5 to Multimode 50/62.5 Repeater - ST
2062-MM/SM - ST	Multimode 50/62.5 to Single mode Converter - ST
2062-SM/SM - ST	Single mode to Single mode Repeater - ST

\*\* Use with S.I. Tech #9402-0008-5568 Fiber Optic Cable Assembly

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



**TYPICAL APPLICATION**