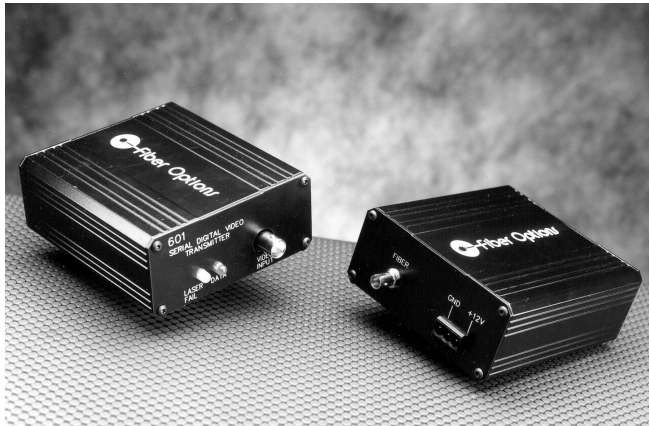




# GE Interlogix Fiber Options

# 601B 601SB

## Digital Video



## Product Specification

### Features

- ✓ One-Way Transmission over a single Fiber
- ✓ Multimode or Single-mode Fiber
- ✓ Accommodates Serial Digital Video with Embedded Audio Data
- ✓ Conforms to CCIR601 and SMPTE259M Digital Video Standards
- ✓ Optical Automatic Gain Control (OAGC)
- ✓ SMARTS™ Diagnostics
- ✓ Standard 13 dB optical budget
- ✓ Forever Warranty™

### Description

The Fiber Options 601B/601SB series links transmit serial digital video one way, over one fiber-optic cable. They are available as multimode units with LED emitters or as single-mode Laser emitting versions with ST or FC/PC connectors.

The 601B links conform to CCIR601 and SMPTE259M digital video standards. They accommodate serially digitized composite NTSC or PAL data formats as well as 10-bit component video up to 270 Mbits/s.

**SMARTS™** diagnostic LEDs on the transmitter and receiver monitor the status of the video and optical signals.

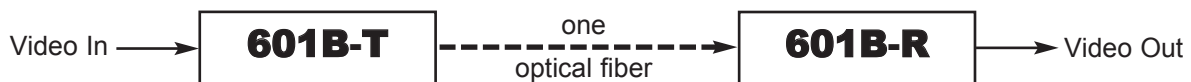
### Basic Multimode Models

**601B** 1-Fiber link, 1300 nm

### Basic Single-Mode Models

**601SB** 1-Fiber link, 1310 nm

### SYSTEM DIAGRAM



#### VIDEO

Number of Channels: 1  
 Standards Supported: NTSC, PAL  
 Video Input/Output Signal: 1.0 V p-p composite  
 Input/Output Impedance: 75 Ω

#### ELECTRICAL

Input Voltage: 13.5 VDC, regulated  
 Current Requirement:  
 Transmitter: 90 mA  
 Receiver: 280 mA  
 Power Consumption:  
 Transmitter: 1.3 W  
 Receiver: 3.9 W  
 Power Supply: 613P

## SERIES 601B AND 601SB

### OPTICAL

Wavelength:	
601B:	1300 nm
601SB:	1310 nm
Optical Mode:	
601B:	Multimode
601SB:	Single Mode
Optical Budget:	
601B:	10 dB*
601SB:	17 dB
Operating Distance**:	
601B:	8.9 mi (14 km)
601SB:	25 mi (40 km)
Emitter Type:	
601B:	LED
601SB:	Laser
Fiber Type:	Multimode: 62.5 µm Single Mode: 8.3 µm
Gain Control:	Optical automatic (OAGC)

### ENVIRONMENTAL

Temperature Range  
in Operation: -40° to +167° F (-40° to +75° C)  
in Storage: -40° to +185° F (-40° to +85° C)  
Humidity Range in Operation and Storage:  
0 to 95% relative, noncondensing

### MECHANICAL

Dimensions:	Length: 4.14 in (105 mm) Width: 3.72 in (94.5 mm) Height: 1.63 in (41 mm)
Weight:	0.7 lb (0.32 kg)
Construction:	Steel
Finish:	Gray semigloss paint
Mounting Method:	4 No. 6 (3 mm) screws

### SMARTS™ INDICATORS

Level/Loss™, Laser, Data, Video In/Out

### AGENCY COMPLIANCE AND MTBF

Emissions:	FCC Part 15, ICES-003, AS/NZS 3548, EN55022
Immunity:	ENV50204, EN61000-4-2, 3, 4, 5, 6, 11
Safety:	UL1950, CAN/CSA 22.2, NO.950-95, EN 60825
MTBF:	>100,000 hours

\*Optical Budget based on 62.5/125 um fiber, for 50/125 um fiber subtract 3 dB.

\*\*Operating distance is approximate and assumes best fiber. It will be affected by the type and number of splices in the fiber. Refer to update no. TB00-005, which can be found at [www.fiberoptions.com](http://www.fiberoptions.com).

FCC PART 15  
COMPLIANT



For additional information about this product, refer to the Fiber Options Web site at [www.fiberoptions.com](http://www.fiberoptions.com).