



GE Interlogix Fiber Options

B701VE



Video Transmission System



Product Specification

Features

- ✓ One-way video transmission
- ✓ 10 Hz to 35 MHz bandwidth
- ✓ 55 dB Signal-to-Noise Ratio
- ✓ Supports NTSC and PAL video formats
- ✓ Optical automatic gain control (OAGC)
- ✓ Operates up to 3.2 mi (5.2 km)
- ✓ Rack cards are hot-swappable
- ✓ SMARTS™ Diagnostics
- ✓ Forever Warranty™

Description

The B701VE provides a high-performance transmission link for composite or component wide band signals. Systems utilizing high line-rate (1025) imaging systems can benefit from the transparent transmission medium offered with the B701VE series. Graphic work stations and signals with embedded carriers for audio are also supported. This unit is the best choice for video-only fiber designs.

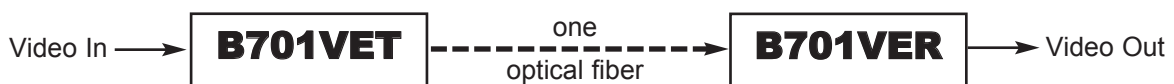
The B701V is available in both standalone units and rack cards for use in the 515R1/517R1 rack mount card cages. For multiple video signal distribution, a two-channel version is available.

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

Basic Model Descriptions

B701VE 1-Fiber link, 850 nm

SYSTEM DIAGRAM



VIDEO SIGNAL

Number of Channels:	1	Signal-to-Noise Ratio:	>55 dB @ max optical attenuation
Standards Supported:	NTSC, PAL	Video Bandwidth:	10 Hz to 35 MHz
Video Input/Output Signal:	1.0 V p-p composite	Differential Phase:	3°
Input/Output Impedance:	75 Ω	Differential Gain:	3%

SERIES B701VE

ELECTRICAL

Input Voltage:	
Standalone Modules:	12 - 14 VAC or 13.5 VDC, regulated
Rack Modules:	13.5 VDC, regulated
Current Requirement:	
B701VET:	50 mA
B701VER:	200 mA
Rack Module Power Factor:	
B701VET:	1
B701VER:	2
Power Consumption:	
B701VET:	0.75 W
B701VER:	3 W
Card Replacement:	Cards are hot swappable
Power Supply:	610P (AC) 613P (DC)

OPTICAL

Wavelength:	850 nm
Optical Mode:	Multimode
Optical Budget*:	13 dB
Operating Distance**:	3.2 mi (5.2 km)
Emitter Type:	LED
Fiber Type:	62.5 μ m
Gain Control:	Optical automatic (OAGC)
Modulation Type:	Intensity Modulation

*Optical Budget based on 62.5/125 μ m fiber,
for 50/125 μ m 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.

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

Standalone Modules

Dimensions:	Length: 5.0 in (127 mm) Width: 2.8 in (71 mm) Height: 1.5 in (38 mm)
Weight:	0.28 lb (0.13 kg)
Construction:	Plastic
Mounting Method:	Two No. 6 (3 mm) screws
Rack Modules	
Module Width:	1 slot, 1.0 in (25.4 mm)
Weight:	0.49 lb (0.22 kg)
Construction:	Aluminum
Finish:	Black semigloss paint

SMARTS™ INDICATORS

Level/Loss™, Video

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
MTBF:	>100,000 hours



For additional information about this product, refer to the Fiber Options Web site at www.fiberoptions.com.