



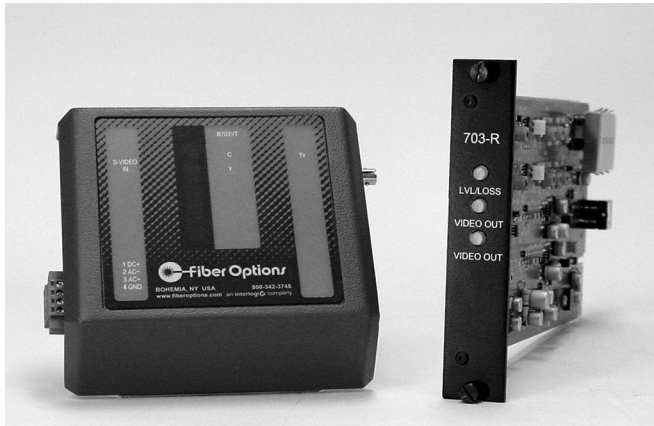
GE Interlogix Fiber Options

B703V



B7703V

Pro A/V S-Video Transmission System



Product Specification

Features

- ✓ One-way transmission of Y/C component video over one fiber
- ✓ FM modulation
- ✓ 8 MHz bandwidth
- ✓ Optical Automatic Gain Control (OAGC)
- ✓ Standard 13 dB optical budget
- ✓ MTBF > 100,000 hours
- ✓ SMARTS™ Diagnostics
- ✓ Forever Warranty™

Description

The B703V and B7703V high performance fiber transmission systems support the luminance and chrominance signals used in Pro A/V S-Video systems. The FM modulated signal paths maintain the timing relationships required to operate S-video based equipment over distances beyond the capability of coax cable.

The B703V model operates up to 11 miles (18 kms) using multimode fiber, while the B7703V model operates up to 27 miles (43 km) over single-mode fiber. The B703V/B7703V series utilize the S-video DIN connector for easy interconnection.

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

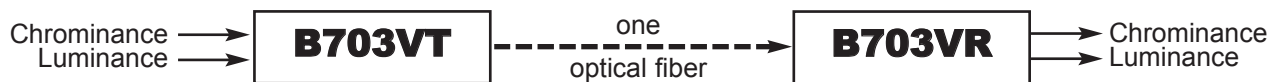
Basic Multimode Models

B703V 1-Fiber link, 850 nm
B703V-L 1-Fiber link, 1300 nm

Basic Single-Mode Models

B7703V 1-Fiber link, 1310 nm
B7703V-L 1-Fiber link, 1550 nm

SYSTEM DIAGRAM



VIDEO

Number of Channels:	2 Y, C	Video Bandwidth:	8 Mhz
Standards Supported:	NTSC	Signal-to-Noise Ratio:	60 dB
Video Input/Output Signal:	Luminance Chrominance	Differential Phase:	2.5°
Input/Output Impedance:	75 Ω	Differential Gain:	2.5%

SERIES B703V AND B7703V

ELECTRICAL

Input Voltage:	
Standalone Transmitter:	12 - 14 VAC or 13.5 VDC, regulated
Standalone Receiver:	13.5 VDC, regulated
Rack Modules:	13.5 VDC, regulated
Current Requirement:	200 mA
Rack Module	
Power Factor:	2
Power Consumption:	3 W
Protection:	Solid-state short circuit protection (no fuse required)
Card Replacement:	Cards are hot swappable
Power Supply:	610P (AC) 613P (DC)

OPTICAL

Wavelength:	
B703V:	850 nm
B703V-L:	1300 nm
B7703V:	1310 nm
B7703V-L:	1550 nm
Optical Mode:	
B703V:	Multimode
B703V-L:	Multimode
B7703V:	Single Mode
B7703V-L:	Single Mode
Optical Budget:	
B703V:	13 dB*
B7703V:	13 dB
Operating Distance**:	
B703V:	3.2 mi (5.2 km)
B703V-L:	11 mi (18 km)
B7703V:	20 mi (32 km)
B7703V-L:	27 mi (43 km)
Emitter Type:	
Multimode:	LED
Single Mode:	Laser
Fiber Type:	Multimode: 62.5 µm Single Mode: 8.3 µm
Modulation Type:	Frequency Modulation (FM)
Gain Control:	Optical automatic (OAGC)

*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.

MECHANICAL

Standalone Transmitter

Dimensions:	Length: 5.0 in (127 mm) Width: 4.8 in (122 mm) Height: 1.5 in (38 mm)
Weight:	1.21 lb (0.55 kg)
Construction:	Steel
Finish:	Grey textured paint
Mounting Method:	6 No. 6 (3 mm) screws

Standalone Receiver

Dimensions:	Length: 9.31 in (236 mm) Width: 6.33 in (161 mm) Height: 1.15 in (29 mm)
Weight:	1.36 lb (0.61 kg)
Construction:	Aluminum
Finish:	Black semigloss paint
Mounting Method:	4 No. 6 (3 mm) screws

Rack Modules

Module Width:	1 slot, 1.0 in. (51 mm)
Weight:	0.75 lb (0.34 kg)
Construction:	Aluminum
Finish:	Black semigloss paint

SMARTSM INDICATORS

Level/LossSM, Y-Luminance, C-Chrominance

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

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

FCC PART 15
COMPLIANT



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