

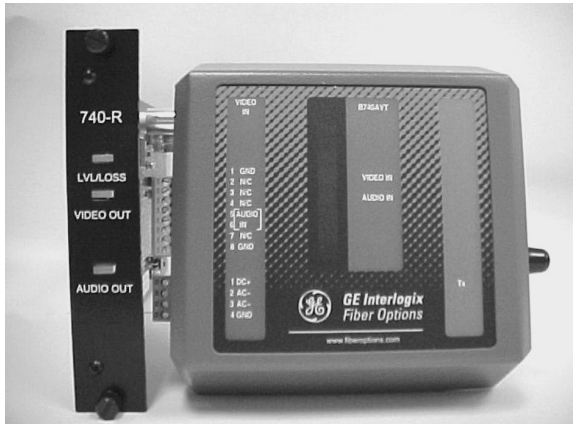


GE Interlogix Fiber Options

B740AV

B7740AV

Video and Audio
Digitally Processed



Product Specification

Features

- ✓ One-way video and audio transmission over one fiber
- ✓ 8-bit A/D video processing
- ✓ 24-bit A/D audio processing
- ✓ 6.5 MHz video bandwidth
- ✓ 20 Hz to 15 kHz audio bandwidth
- ✓ Audio SNR >70 dB, Video SNR >55 dB
- ✓ 20 Hz to 20 kHz frequency response
- ✓ Balanced or unbalanced audio
- ✓ Standard 13 dB MM, 18 dB SM optical budget
- ✓ SMARTS™ Diagnostics
- ✓ Forever Warranty™

Description

The B740AV/B7740AV series is the newest member of the next-generation video and audio fiber solutions from Fiber Options. Designed to replace the 241B video and audio link, it features improved video performance by incorporating an 8-bit A/D to process the video signal.

The audio performance of the B740AV/B7740AV is exceptional, with a noise floor so low that any conference or AV application can easily be handled. Diagnostic indicators on the front panel monitor input and output video, input and output audio presence and a Level/Loss™ indicator to monitor the received optical signal.

The B740AV/B7740AV also features both a stand-alone unit (EST version) in addition to the standard plug-in rack card.

Basic Multimode Models

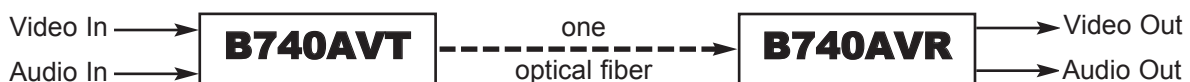
B740AV-L 1-Fiber link, 1300 nm

Basic Single-Mode Models

B7740AV 1-Fiber link, 1310 nm

B7740AV-L 1-Fiber link, 1550 nm

SYSTEM DIAGRAM



SERIES B740AV AND B7740AV

VIDEO

Number of Channels:	1
Standards Supported:	NTSC, PAL
Video Input/Output Signal:	1.0 V p-p composite
Input/Output Impedance:	75 Ω
Signal-to-Noise Ratio:	>55 dB
Video Bandwidth:	6.5 MHz
Video Resolution:	>520 TV lines
Differential Phase:	0.7°
Differential Gain:	2%

AUDIO

Number of Channels:	1
Input Signal Level:	6 dBu balanced (max.), 0 dBu unbalanced
Input Impedance:	30 k Ω (balanced or unbalanced)
Frequency Response:	20 Hz to 15 kHz
Sampling Rate:	33 kHz
Output Signal Level:	6 dBu balanced, 0 dBu unbalanced
Output Impedance:	<30 Ω unbalanced <60 Ω balanced
Signal-to-Noise Ratio:	70 dB
THD:	<0.01%

ELECTRICAL

Input Voltage:	
Standalone Modules:	24 VAC $\pm$ 10% or 13.5 VDC, regulated
Rack Modules:	13.5 VDC, regulated
Current Requirement:	450 mA
Rack Module	
Power Factor:	4
Power Consumption:	6 W
Protection:	Solid-state short circuit protection (no fuse required)
Card Replacement:	Cards are hot swappable
Power Supply:	613P

OPTICAL

Optical Mode:	
B740AV:	Multimode
B7740AV:	Single Mode
Wavelength:	
B740AV:	1300 nm
B7740AV:	1310 nm
B7740AV-L:	1550 nm

Optical Budget:

B740AV:	13 dB*
B7740AV:	18 dB
Operating Distance**:	
B740AV:	3.2 mi (5.2 km)
B7740AV:	28 mi (45 km)
B7740AV-L:	37 mi (60 km)
Emitter Type:	
Multimode:	LED and/or Laser
Single Mode:	Laser
Fiber Type:	Multimode: 62.5 μ m Single Mode: 8.3 μ m
Gain Control:	Optical automatic (OAGC)
Launch Power:	-15 dBm
Receiver Sensitivity:	-28 dBm

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:	Height: 5.0 in (127 mm) Width: 4.8 in (122 mm) Depth: 1.5 in (38 mm)
Weight:	0.75 lb (0.34 kg)
Construction:	Steel
Finish:	Gray textured paint
Mounting Method:	6 No. 6 (3 mm) screws

Rack Modules

Module Width:	1 slot, 1.0 in. (25.4 mm)
Weight:	0.55 lb (0.25 kg)
Construction:	Aluminum
Finish:	Black semigloss paint

SMARTS™ INDICATORS

Level/Loss™, Video Input/Output, Audio Input/Output

AGENCY COMPLIANCE AND MTBF

Emissions:	FCC Part 15, ICES-003, AS/NZS 3548, EN55022
Immunity:	EN50130-4
Safety:	UL1950, CAN/CSA 22.2, NO.950-95
Laser Safety:	21CFR1040; EN 60825-1, 2
MTBF:	>100,000 hours

*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.

FCC PART 15
COMPLIANT



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