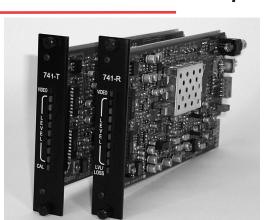


GE Interlogix Fiber Options







Video and Audio

Digitally Processed

Product Specification

Features

- One-way video and audio transmission over one fiber
- 10-bit A/D video processing
- 24-bit A/D audio processing
- Audio SNR >90 dB, THD <0.003%</p>
- ✓ 20 Hz to 20 kHz frequency response
- Balanced or unbalanced audio
- Standard 13 dB MM, 18 dB SM optical budget
- ✓ Built-in 1.0 kHz test generator
- Built-in optical power meter
- ✓ SMARTS™ Diagnostics
- ✓ Forever Warranty™

Description

The B741AV/B7741AV series high performance broadcast grade fiber transmission system supports composite video and one channel of line-level audio. The all-digital processing platform features 24-bit audio processing.

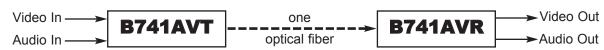
For added flexibility dual range audio levels for the audio channel can be configured for -10 dB to +8 db or 0 dB to +18 dB operation.

A ten-segment LED display provides for complete monitoring of input video, output video, audio input and audio output levels and the received optical signal. When switched to the test mode on the receiver, the front panel LEDs have the capability to display the received optical level. This built-in test feature aids in the installation process as it easily measures the actual optical loss in the fiber run from the transmitter.

Basic Multimode Models
B741AV-L 1-Fiber link, 1300 nm

Basic Single-Mode Models
B7741AV
1-Fiber link, 1310 nm
1-Fiber link, 1550 nm

SYSTEM DIAGRAM



Tel: I-800-342-3748 www.fiberoptions.com

SERIES B741AV AND B7741AV

VIDEO

Number of Channels:

Standards Supported: NTSC, PAL

Video Input Signal: 1.0 V p-p composite

Input/Output Impedance: 75 Ω

Video Input Signal: 1.0 V p-p composite,

unity gain

Signal-to-Noise Ratio: >67 dB Video Bandwidth: 7.5 MHz Differential Phase: 0.7° Differential Gain: 1%

AUDIO

Number of Channels: 1. simplex

Input Signal Level: -10 dBm to +8 dBm or

0 dBm to +18 dBm

 $600~\Omega$ (balanced or Input Impedance:

> unbalanced) $3 k\Omega$ (balanced or unbalanced)

Frequency Response: 20 Hz to 20 kHz

Sampling Rate: 48 kHz Output Signal Level: 18 dBu max. Output Impedance: <30 Ω unbalanced <60 Ω balanced

90 dB Signal-to-Noise Ratio: THD: <0.003%

Built-in Test Signal: 1 kHz @ 5 dBu

ELECTRICAL

Input Voltage: 13.5 VDC, regulated

Current Requirement: 600 mA

Rack Module

Power Factor: 5

Power Consumption: 8.5 W @ 14 V

Solid-state short-circuit Protection:

protection (no fuse required)

Cards are hot swappable Card Replacement:

OPTICAL

Optical Mode:

B741AV: Multimode B7741AV: Single Mode

Optical Budget:

B741AV-L:

13 dB* B7741AV: 18 dB B7741AV-L: 18 dB

Operating Distance**:

B741AV-L: 3.7 mi (6 km) B7741AV: 28 mi (45 km) B7741AV-L: 37 mi (60 km)

Emitter Type: Laser

Fiber Type:

Wavelength: B741AV-L:

B7741AV:

B7741AV-L:

Multimode: 50.5 μm, 62.5 μm

8.3 um Single Mode: Modulation Type: Digital

Optical automatic (OAGC) Gain Control:

1300 nm

1310 nm

1550 nm

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

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

SMARTSTM INDICATORS

Level/Loss™, Audio Level, Video Status

AGENCY COMPLIANCE AND MTBF

FCC Part 15. ICES-003. Emissions:

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

*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.







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