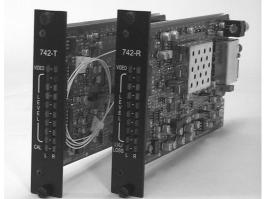


GE Interlogix Fiber Options









Video and Two-Channel 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%
- 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
- SMARTSTM Diagnostics
- Forever Warranty™

Description

The B742AV/B7742AV series high performance broadcast grade fiber transmission system supports composite video and two channels of line-level audio. The all-digital processing platform features 24-bit audio processing and a 48 kHz audio sampling rate.

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

Dual ten-segment LED displays provide 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.

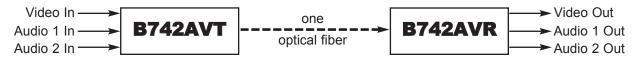
Basic Multimode Models B742AV-L

1-Fiber link, 1300 nm

Basic Single-Mode Models B7742AV 1-Fiber link, 1310 nm

B7742AV-L 1-Fiber link, 1550 nm

SYSTEM DIAGRAM



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

SERIES B742AV AND B7742AV

VIDEO

Number of Channels: 1

NTSC, PAL Standards Supported:

Video Input Signal: 1.0 V p-p composite

Input/Output Impedance: 75Ω

Video Input Signal: 1.0 V p-p composite,

unity gain

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

Differential Gain: 1%

AUDIO

Number of Channels: 2, simplex

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

0 dBm to +18 dBm

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

unbalanced)

30 k Ω (balanced or

unbalanced) 20 Hz to 20 kHz

Frequency Response: Sampling Rate: 48 kHz

Output Signal Level: 18 dBu max.

8 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: 700 mA

Rack Module

Power Factor: 6

Power Consumption: 9.5 W @ 14 V

Solid-state short-circuit Protection:

protection (no fuse required)

Cards are hot swappable Card Replacement:

OPTICAL

Optical Mode:

B742AV: Multimode B7742AV: Single Mode

*Optical Budget based on 62.5/125 um fiber,

**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.

Wavelength:

B742AV-L: 1300 nm B7742AV: 1310 nm B7742AV-L: 1550 nm

Optical Budget:

13 dB* B742AV: B7742AV: 18 dB 18 dB B7742AV-L:

Operating Distance**:

B742AV: 3.7 mi (6 km) B7742AV: 28 mi (45 km) B7742AV-L: 37 mi (60 km)

Emitter Type: Laser

Fiber Type:

Multimode: 50 μm, 62.5 μm

Single Mode: 8.3 µm Digital Modulation Type:

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

Rack Modules

Module Width: 1 slot, 1.0 in. (25.4 mm)

Weight: 0.60 lb (0.27 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





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

for 50/125 um fiber subtract 3 dB.