

Overview

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

Selectable Audio Levels

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.

Built-in Diagnostics

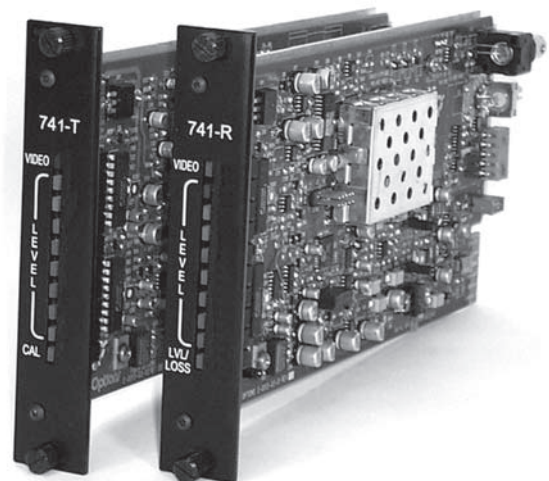
A ten-segment LED display provides complete monitoring of input video, output video, audio input and audio output levels and the received optical signal. When switched to the test mode on the receiver, the front panel LEDs have the capability to display the received optical level. This built-in test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

Standard Features

- One-way video and audio transmission over one single mode or multimode fiber
- 10-bit video processing
- 24-bit audio processing
- 20 Hz to 20 kHz frequency response
- Balanced or unbalanced audio
- 13 dB optical budget
- Video SNR >67 dB
- 90 dB audio SNR
- Built-in 1.0 kHz test generator
- Built-in optical power meter
- Exceeds EIA-250C Short Haul Standard

One-Way Video and Audio

B741AV and B7741AV



GE Security

U.S.
T (561) 998-6100
T 888-GE-SECURITY
888-(437-3287)
F 561 998 6224

Canada
T 519 376 2430
F 519 376 7258

Asia
T 852-2907-8108
F 852-2142-5063

Australia
T 61-3-9239-1200
F 61-3-9239-1299

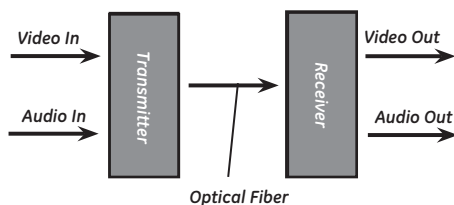
Europe
T 32-2-719-9847
F 32-2-719-9846

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T 305-593-4301
F 305-593-4300

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Related Diagram



Ordering Information

Use the Configurator below to select the options available for this product.

B741AV ☐ -RSTL

Product Type

T Transmitter
R Receiver

* Optical Budget based on 62.5 µm fiber, for 50/125 µm 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.gesecurity.com

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B741AV-2006-09-2

Specifications

Video	B741AV (Multimode)	B7741AV (Single Mode)
Channels	1 simplex	
Format	NTSC and PAL	
Input/Output Signal	1.0 V pk-pk	
Bandwidth	7.5 MHz	
Signal-to-Noise Ratio	>67 dB	
Input/Output Impedance	75 ohms	
Differential Phase	<0.7°	
Differential Gain	<2%	
Audio		
Channels	1 simplex	
Input Signal Level	-10 dBm to +8 dBm or 0 dBm to +18 dBm	
Input Impedance	600 ohms or 30 k ohms (balanced or unbalanced)	
Frequency Response	20 Hz to 20 kHz	
Sampling Rate	48 kHz	
Output Signal Level	8 dBu or 18 dBu maximum	
Output Impedance	<30 ohms unbalanced, <60 ohms balanced	
Signal-to-Noise Ratio	90 dB	
Total Harmonic Distortion	<0.03%	
Test Signal	1 kHz @ 5 dBu	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	13 dB	18 dB
Emitter	Laser	
Wavelength	1300 nm	1310 or 1550 nm
Operating Distance**	3.7 mi (6 km) (depending on model)	Up to 37 mi (60 km) (depending on model)
Modulation Type	Digital	
Gain Control	Optical Automatic Gain Control (OAGC)	
Electrical		
Input Power	13.5 VDC regulated	
Current Requirement	600 mA	
Power Consumption	6 W	
Power Factor	5	
Protection	Solid-state short circuit protection	
Environmental		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	
Mechanical		
Dimensions	1 slot (1.0")	
Weight	0.6 lbs (0.27 kg)	
Construction	Aluminum	

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT  

MADE IN THE USA

Complies with FDA Performance Standard for Laser Products,
Title 21, Code of Federal Regulations, Subchapter J

B7741AV ☐ -R ☐ ☐ ☐

Product Type

T Transmitter
R Receiver

Connector Type High Order Wavelength

FC FC Type AddL here only if ordering
ST ST Type High Order Wavelength



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