GE
Security

Fiber Optic
Audio Transmitters and Receivers

Overview

Single-Channel, Two-Way Audio, high performance fiber transmission systems support two-way High Quality Audio (HQA). The all-digital processing platform features 24-bit audio processing. B725A models feature multimode operation, while B7725A models operate over single mode fiber.

Digital Audio Processing

Digital processing of the audio signal along with an audio signal-to-noise ratio of 70 dB allows the audio output to drive balanced or unbalanced loads and maintain constant audio levels.

Built-in Diagnostics

Built-in system diagnostics include LED displays that monitor input and output audio levels and transmitter/receiver operation.

Standard Features

- Two-way audio transmission over one fiber
- Single and multimode models available
- 24-bit audio processing
- 20 Hz to 15 kHz frequency response
- Balanced or unbalanced audio
- 13 dB optical budget
- 70 dB audio SNR
- 33 kHz audio sampling rate
- THD < 0.01%

Single-Channel Two-Way Audio

B725A and B7725A

GE Security

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F 561 998 6224

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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

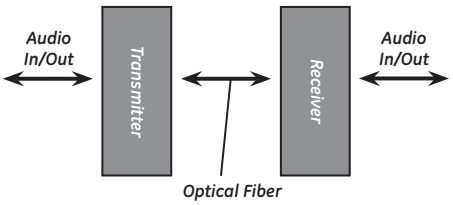
Latin America
T 305-593-4301
F 305-593-4300

www.gesecurity.com

Specifications

Audio	B725A (Multimode)	B7725A (Single Mode)
Channels	1 duplex	
Input Signal Level	6 dBu balanced (max.), 0 dBu unbalanced	
Input Impedance	30k ohms (balanced or unbalanced)	
Frequency Response	20 Hz to 15 kHz	
Sampling Rate	33 kHz	
Output Signal Level	6 dBu balanced (max.), 0 dBu unbalanced	
Output Impedance	<30 ohms unbalanced, <60 ohms balanced	
Signal-to-Noise Ratio	70 dB	
Total Harmonic Distortion	<0.01%	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	13 db	
Emitter	LED	Laser
Wavelength	850 and 1300 nm	1310 and 1550 nm
Operating Distance**	2.2 mi (3.2 km)	13.7 mi (22 km)
Modulation Type	Digital	
Gain Control	Optical Automatic Gain Control	
Electrical		
Input Power, Standalone Units	24 VAC or 13.5 VDC regulated	
Input Power, Rack Units	13.5 VDC regulated	
Current Requirement	250 mA	
Power Consumption	3.5 W	
Power Factor	2 (rack units only)	
Protection	Solid-state short circuit protection	
Optional Power Supply	Model 613P	
Environmental		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	
Mechanical		
Dimensions (LWD), Standalone Units	5.0" x 4.8" x 1.5" (127 x 122 x 38 mm)	
Dimensions, Rack Units	1 slot (1.0")	
Weight	Standalone 1.2 lbs (0.54 kg); Rack 0.6 lbs (0.27 kg)	
Construction	Polycarbonate (standalone); Aluminum (rack)	

Related Diagram



AGENCY COMPLIANCE

FCC PART 15 COMPLIANT CE c UL us

MADE IN THE USA

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

Ordering Information

Use the Configurators below to select the options available for these products.

B725A□-□ ST1

Product Type		Enclosure	
T	Transmitter	E	Standalone
R	Receiver	R	Rack Card

B7725A□-□□□1

Product Type		Enclosure		Connector Type	
T	Transmitter	E	Standalone	FC	FC Type
R	Receiver	R	Rack Card	ST	ST Type

* 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

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative.
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imagination at work