

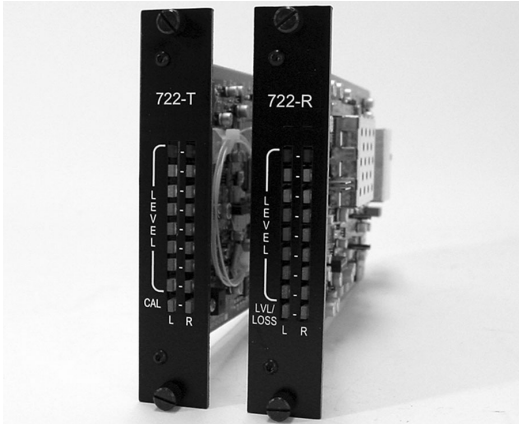


GE Interlogix Fiber Options

B722A

B7722A

Two-Channel Audio



Product Specification

Features

- ✓ Two audio channels over one fiber
- ✓ 24-bit A/D audio processing
- ✓ Signal-to-Noise Ratio >90 dB
- ✓ 20 Hz to 20kHz frequency response
- ✓ Balanced or unbalanced audio
- ✓ Standard 13 dB multimode optical budget
- ✓ Standard 18 dB single-mode optical budget
- ✓ Built-in 1 kHz test generator
- ✓ Built-in optical power meter
- ✓ SMARTS™ Diagnostics
- ✓ Forever Warranty™

Description

The B722A/B7722A high performance broadcast grade fiber transmission system supports two channels of line-level audio. The all-digital processing platform features 24-bit dual channel audio processing.

The optical transmission system can operate at 1300 nm over multimode fiber or at 1310/1550 nm over single-mode fiber.

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.

SMARTS™ (Status Monitoring And Reliability Test System) diagnostic technology provides built-in system performance analysis that includes dual multi-segment LED displays that provide for complete monitoring of transmitter and receiver operation, as well as a built-in test generator. 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 Model

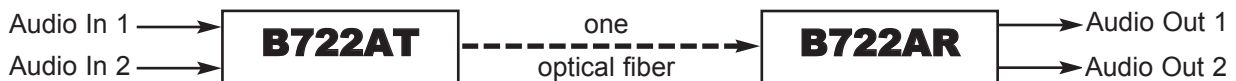
B722A-L 1-Fiber link, 1300 nm

Basic Single-Mode Models

B7722A 1-Fiber link, 1310 nm

B7722A-L 1-Fiber link, 1550 nm

SYSTEM DIAGRAM



SERIES B722A AND B7722A

AUDIO

Number of Channels:	2, simplex
Input Signal Level:	-10 dBm to +8 dBm or 0 dBm to +18 dBm
Input Impedance:	600 Ω (balanced or unbalanced) 30 k Ω (balanced or unbalanced)
Frequency Response:	20 Hz to 20 kHz
Sampling Rate:	48 kHz
Output Signal Level:	18 dBu max. or 8 dBu max.
Output Impedance:	<30 Ω unbalanced <60 Ω balanced
Signal-to-Noise Ratio:	90 dB
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
Protection:	Solid-state short-circuit protection (no fuse required)
Card Replacement:	Cards are hot swappable

OPTICAL

Optical Mode:	
B722A-L:	Multimode
B7722A:	Single Mode
B7722A-L:	Single Mode
Wavelength:	
B722A-L:	1300 nm
B7722A:	1310 nm
B7722A-L:	1550 nm
Optical Budget:	
B722A-L:	13 dB*
B7722A:	18 dB
B7722A-L:	18 dB

*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.

Operating Distance**:

B722A-L:	3.7 mi (6 km)
B7722A:	28 mi (45 km)
B7722A-L:	37 mi (60 km)
Emitter Type:	Laser
Fiber Type:	
Multimode:	50 μ m, 62.5 μ m
Single Mode:	8.3 μ m
Modulation Type:	Digital
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

INDICATORS

Level/Loss™, Audio Level, Mode Status

AGENCY COMPLIANCE AND MTBF

Emissions:	FCC Part 15, ICES-003, 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

FCC PART 15
COMPLIANT



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