



GE Interlogix Fiber Options

B725A



B7725A

Two-Way Audio



Product Specification

Features

- ✓ Two-way audio over one fiber
- ✓ 24-bit A/D audio processing
- ✓ Signal-to-Noise Ratio >70 dB
- ✓ 20 to 15 kHz frequency response
- ✓ Balanced or unbalanced audio
- ✓ Standard 13 dB optical budget
- ✓ SMARTS™ Diagnostics
- ✓ Forever Warranty™

Description

The B725A/B7725A high performance fiber transmission system supports one two-way high quality audio channel. The all-digital processing platform features 24-bit dual channel audio processing and a 33 kHz audio sampling rate.

The optical transmission system can operate at 850/1300 nm over multimode fiber or at 1310/1550 nm over single-mode fiber.

SMARTS™ (Status Monitoring And Reliability Test System) diagnostic technology provides built-in system performance analysis that includes LED displays that provide for complete monitoring of input and output audio levels and transmitter and receiver operation.

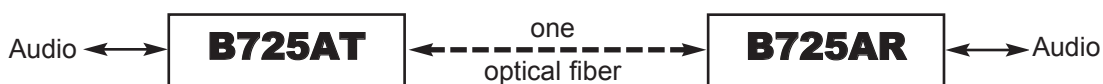
Basic Multimode Model

B725A- 1-Fiber link, 850/1300 nm

Basic Single-Mode Models

B7725A 1-Fiber link, 1310/1550 nm

SYSTEM DIAGRAM



SERIES B725A AND B7725A

AUDIO

Number of Channels: 1, duplex
Input Signal Level: 6 dBu balanced (max.),
0 dBu unbalanced
Input Impedance: 30 k Ω (balanced or
unbalanced)
Frequency Response: 20 Hz to 15 kHz
Sampling Rate: 33 kHz
Output Signal Level: 6 dBu balanced,
0 dBu unbalanced
Output Impedance: <30 Ω unbalanced
<60 Ω balanced
Signal-to-Noise Ratio: 70 dB
THD: <0.01%

ELECTRICAL

Input Voltage:
Standalone Modules: 13.5 VDC, regulated or
24 VAC
Rack Modules: 13.5 VDC, regulated
Current Requirement: 250 mA
Rack Module
Power Factor*: 2
Power Consumption: 3.5 W
Protection: Solid-state short-circuit
protection (no fuse required)
Card Replacement: Cards are hot swappable
Power Supply: 613P

OPTICAL

Optical Mode:
B725A: Multimode
B7725A: Single Mode
Wavelength:
B725A: 850/1300 nm
B7725A: 1310/1550 nm
Optical Budget:
B725A: 13 dB*
B7725A: 13 dB
Operating Distance**:
B725A: 2.2 mi (3.5 km)
B7725A: 13.7 mi (22 km)

*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.

Emitter Type: Laser
Fiber Type: 50 μ m, 62.5 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

Standalone Modules

Dimensions: Length: 5.0 in (127 mm)
Width: 4.8 in (122 mm)
Height: 1.5 in (38 mm)
Weight: 1.2 lb (0.54 kg)
Construction: Plastic
Finish: Black semigloss paint
Mounting Method: 2 No. 6 (3 or 3.5 mm)
screws

Rack Modules

Module Width: 1 slot, 1.0 in. (25.4 mm)
Weight: 0.6 lb (0.27 kg)
Construction: Aluminum
Finish: Black semigloss paint

INDICATORS

Level/Loss™, Audio Input, Audio Output

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
Laser Safety: 21CFR1040, EN60825-1, -2
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.