



GE Interlogix Fiber Options

346A



Two-Way Audio (Two-Wire)



Product Specification

Features

- ✓ Two-way audio over one or two fibers
- ✓ Optical AGC circuitry
- ✓ Operates up to 8.9 mi (14 km)
- ✓ SMARTS™ Diagnostics
- ✓ Forever Warranty™

Description

Fiber Options' Series 346A Interface System provides superior and reliable transmission of analog signals in the most demanding applications. A standard series 346A system consists of two transceivers for single-fiber operation at 850/1300 nm. A dual-fiber version for 850 nm or 1300 nm may also be specified.

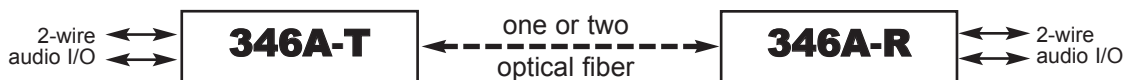
Incorporating optical AGC circuitry, the system does not require field adjustments either during or after installation. Distortion is kept very low throughout the system, enabling the quality requirements of intercom, paging, and music systems to be met.

SMARTS™ (Status Monitoring And Reliability Test System) diagnostic technology provides built-in system performance analysis.

Basic Model Descriptions

- 346A1** 1-Fiber link, 850/1300 nm
- 346A2** 2-Fiber link, 850 nm
- 346A2L** 2-Fiber link, 1300 nm

SYSTEM DIAGRAM



AUDIO

Channels: 1 bidirectional
 Input Signal: Standard phone line
 Input Impedance: 600 Ω balanced
 Output Signal Level: Standard phone line

Output Impedance: 600 Ω balanced
 Bandwidth: 200 Hz to 2.7 kHz
 Signal-to-Noise Ratio: > 50 dB @ max opt. atten.

SERIES 346A

ELECTRICAL

Input Voltage:
Standalone Modules: 12 - 16 VAC or
13.5 VDC, regulated
Rack Modules: 13.5 VDC, regulated
Current Requirement: 150 mA
Rack Module
Power Factor: 2
Power Consumption: 2 W @ 14 V
Protection: Solid-state short-circuit protection (no fuse required)
Card Replacement: Cards are hot swappable
Power Supply: 610P (AC)
613P (DC)

OPTICAL

Wavelength: 346A1: 850/1300 nm
346A2: 850 nm
346A2L: 1300 nm
Optical Mode: Multimode
Optical Budget*: 10 dB
Operating Distance**:
346A1: 2.5 mi (4.0 km)
346A2: 2.5 mi (4.0 km)
346A2L: 8.9 mi (14 km)
Emitter Type: LED
Fiber Type: 62.5 μ m
Gain Control: Optical automatic (OAGC)
Launch Power: -18 dBm
Receiver Sensitivity: -28 dBm

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

*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.

MECHANICAL

1-Fiber Standalone Modules

Dimensions: Length: 4.0 in (102 mm)
Width: 4.55 in (116 mm)
Height: 1.95 in (50 mm)
Weight: 0.54 lb (0.24 kg)
Construction: Aluminum
Finish: Black semigloss paint
Mounting Method: 4 No. 6 (3 mm) screws

1-Fiber Rack Modules

Module Width: 2 slots, 2.0 in (51 mm)
Weight: 0.69 lb (0.31 kg)
Finish: Black semigloss paint

Two-Fiber Standalone Modules

Dimensions: Length: 4.0 in (102 mm)
Width: 4.55 in (116 mm)
Height: 1.22 in (31 mm)
Weight: 0.42 lb (0.19 kg)

Construction: Aluminum
Finish: Black semigloss paint
Mounting Method: 4 No. 6 or 3-mm screws

Two-Fiber Rack Modules

Module Width: 1 slot, 1.0 in (25.4 mm)
Weight: 0.55 lb (0.25 kg)
Construction: Aluminum
Finish: Black semigloss paint

SMARTS™ INDICATORS

Level/Loss™

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.