



# **GE Interlogix** Fiber Options





# Multi-protocol Data System

# **Product Specification**

#### **Features**

- Multi-protocol data: RS-232, RS-422, RS-485
  Manchester, Biphase, TTL, SensorNet
- ✓ User-configurable data format
- ✓ Unique data translation function
- ✓ SMARTS™ Diagnostics
- Optical budget 18 dB
- ✓ Hot swappable
- ✓ Solid-state circuit protection
- ✓ Forever Warranty™

## **Basic Multimode Models**

**S711D-1** 1-Fiber link. 850/1300 nm **S711D-2** 2-Fiber link, 850 nm **S711D-2L** 2-Fiber link. 1300 nm

## **Description**

The S711D multimode link and S7711D single-mode link handle all major data formats in both directions, including SensorNet $^{\text{TM}}$ . It is not necessary to order or stock different models to support different data formats. If an installation changes data formats, simply reconfigure the S711D or S7711D.

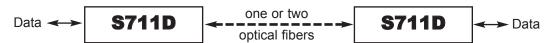
The use of state-of-the-art digital technology throughout the S711D and S7711D includes Fiber Options' unique **SMARTS™** Technology, providing more diagnostic functions than previously possible. In addition, the integrity of the data paths can be tested with a built-in data transmission test pattern generator. It is not necessary to hook up a data source to test the link.

The S711D and S7711D also feature the very valuable data translation function that allows input of one data format and output of a different format.

#### **Basic Single-Mode Models**

**S7711D-1** 1-Fiber link, 1310/1550 nm **S7711D-2** 2-Fiber link, 1310 nm 2-Fiber link, 1550 nm

#### SYSTEM DIAGRAM



### **DATA**

Number of Channels: 1

Data Formats: RS-232 3-wire, no handshake

RS-232 5-wire, w/handshake TTL, RS-422, Manchester, Biphase, Sensornet™,

Baud Rate:

RS-485 (2- wire and 4-wire) with 0.2, 1 & 2 V offsets RS-232 = 250 kbps Manchester = 250 kbps Biphase = 250 kbps RS-422 = 512 kbps

# SERIES S711D AND S7711D

**DATA**, Continued

Baud Rate: RS-485: 512 kbps TTL: 512 kbps Bit Error Rate: <10-9

Maximum Distance: The maximum distance from the CCTV control system components to the fiber units is

governed by the control system.

**ELECTRICAL** 

Input Voltage:

Standalone Modules: 13.5 VDC, regulated

12 - 16 VAC

13.5 VDC, regulated Rack Modules:

Current Requirement: 350 mA Power Consumption: 5 W

Rack Module

Power Factor:

Protection: Solid-state short circuit

protection (no fuse

required)

Card Replacement: Cards are hot swappable

Power Supply: 610P (AC)

613P (DC)

**OPTICAL** 

Optical Mode:

S711D-1: Multimode S711D-2: Multimode S711D-2L: Multimode S7711D-1: Single Mode S7711D-2: Single Mode Single Mode S7711D-2L:

Wavelength:

S711D-1: 850/1300 nm S711D-2: 850 nm S711D2-L: 1300 nm S7711D-1: 1310/1550 nm S7711D-2: 1310 nm S7711D-2L: 1550 nm

Optical Budget:

Multimode: 18 dB\* Single Mode: 18 dB

Emitter Type:

Multimode: LED or Laser

Single Mode: Laser

\*Optical Budget based on 62.5/125 um fiber, for 50/125 um 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\*\*:

S711D-1: 4.5 mi (7.2 km) S711D-2: 4.5 mi (7.2 km) S711D-2L: 15 mi (25 km) 28 mi (45 km) S7711D-1: S7711D-2: 28 mi (45 km) S7711D-2L: 37 mi (60 km)

Fiber Type:

62.5 µm Multimode: 8.3 µm Single Mode

Optical automatic (OAGC) Gain Control: Tx Launch Power: - 14 dBm minimum

- 32 dBm minimum Rx Sensitivity:

**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: 2.8 in (71 mm) Height: 1.5 in (38 mm)

Weight: 0.22 lb (0.1 kg)

Construction: Plastic

Mounting Method: 2 No. 6 (3 mm) screws

**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<sup>TM</sup> INDICATORS

Level/Loss™, Data Input, Data Output, Enable

Configuration

AGENCY COMPLIANCE AND MTBF

Emissions: FCC Part 15, ICES-003, AS/NZS

3548, EN55022

ENV50204. EN61000-4-2.3.4.5.6.11 Immunity: UL1950, CAN/CSA 22.2, NO.950-95 Safety:

Laser Safety: 21CFR1040, EN 60825-1, -2

MTBF: >100,000 hours







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