

GE Interlogix Fiber Options













Two-Way Audio, Multi-protocol Data and Contact Closure

One-Way Video with

Product Specification

Features

- One-way video and two-way audio/data transmission over one or two fibers
- **У** 9-bit A/D video processing
- ✓ 24-bit A/D audio processing
- Multi-protocol data: RS-232, RS-422, RS-485, Manchester, Biphase, TTL, and SensorNet
- ✓ Unique data translation function
- ✓ Local or remote user-configurable data format
- ✓ Relay/contact closure 2 duplex channels
- ✓ SMARTS™ Diagnostics, including on-screen monitor dispays
- Built-in video and audio test pattern generators
- ✓ Forever Warranty™

Description

The S764DAV/S7764DAV fiber link provides one-way video transmission combined with two-way 2-channel audio, 2-channel multi-protocol data, and 2-channel contact closures.

Digital processing of the video signal along with a video signal-to-noise ratio of >65 dB assures clean, noise-free video at the receiver.

Digital processing of the audio signal along with an audio signal-to-noise ratio of >90 dB allows the audio output to drive balanced or unbalanced loads and maintain constant audio levels.

The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output.

Fiber Options' unique **SMARTS™** diagnostic technology provides an extensive set of built-in diagnostic tools including a video test pattern generator that allows failures to be diagnosed from the monitor, and LED displays for monitoring video, data, audio, contact, and optical signals.

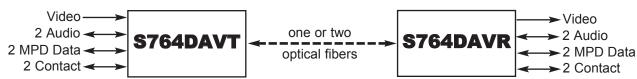
Basic Multimode Models

S764DAV-1 1-Fiber link, 850/1300 nm **S764DAV-2L** 2-Fiber link, 1300 nm

Basic Single-Mode Models

S7764DAV-1 1-Fiber link, 1310/1550 nm **S7764DAV-2** 2-Fiber link, 1310 nm **S7764DAV-2L** 2-Fiber link, 1550 nm

SYSTEM DIAGRAM



SERIES S764DAV AND S7764DAV

VIDEO

Number of Channels:

Standards Supported: All major formats Video Input/Output Signal: 1.0 V p-p composite

Input/Output Impedance: 75Ω

>65 dB Signal-to-Noise Ratio: Video Bandwidth: 8 MHz Video Resolution: 640 TV lines

0.7° Differential Phase: Differential Gain: <1%

DATA

Number of Channels: 2, bi-directional, format

independant

I/O Data Formats: RS-232 (3-wire and 5-wire),

TTL, RS-422, Manchester, Biphase, Sensornet™, RS-485 (2-wire and 4-wire) with 200 mV, 1 V and 2 V offsets and forward/reverse

relay/contact closure

Baud Rate:

RS-232: 250 kbps Manchester, Biphase: 250 kbps RS-422, RS-485, TTL: 512 kbps

Relay/Contact Closures: 2 duplex channels Relay/Contact Rating: 1 A @ 30 VDC

<10⁻⁹ Bit Error Rate:

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

AUDIO

Channels: 2, bi-directional

Input Signal: 17.4 V p-p, +18 dBu max.

Input Impedance: $600~\Omega$ or $100~\text{k}\Omega$

Output Signal Level: 17.4 V p-p, +18 dBu max. 30 Ω single-ended or Output Impedance:

 $60~\Omega$ balanced

20 Hz to 20 kHz Bandwidth:

Sampling Rate: 52 kHz Signal-to-Noise Ratio: > 90 dB

Total Harmonic

Distortion: <0.006%

ELECTRICAL

Input Voltage: 13.5 VDC, regulated

Current Requirement: 500 mA

Rack Module

Power Factor: Power Consumption: 6.75 W

*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.

Solid-state short circuit Protection:

protection (no fuse required)

Card Replacement: Cards are hot swappable

613P Power Supply:

OPTICAL

Optical Mode:

S764DAV: Multimode S7764DAV: Single Mode

Optical Budget:

S764DAV: 13 dB* S7764DAV: 18 dB

Wavelength:

S764DAV-1: 850/1300 nm S764DAV-2L: 1300 nm S7764DAV-1: 1310/1550 nm 1310/1330 nm S7764DAV-2: S7764DAV-2L: 1550 nm

Operating Distance**:

S764DAV-1: 2.5 mi (4.0 km) S764DAV-2L: 11 mi (18 km) S7764DAV-1: 28 mi (45 km) S7764DAV-2: 28 mi (45 km) S7764DAV-2L: 37 mi (60 km)

Emitter Type: Laser

Fiber Type: Multimode: 62.5 um Single Mode: 8.3 µm

Optical automatic (OAGC)

Gain Control:

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

Module Width: 2 slots, 2.0 in. (51 mm)

Weight: 0.7 lb (0.32 kg) Construction: Aluminum

Finish: Black semigloss paint

SMARTS™ INDICATORS

Level/Loss™. Video. Audio Input/Output. Data Input/Output. Contact Input/Output, Enable Configuration, Laser

AGENCY COMPLIANCE AND MTBF

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

3548, EN55022

Immunity: EN50130-4

Safety: UL1950, CAN/CSA 22.2, NO.950-95

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

MTBF: >100,000 hours

FCC PART 15 COMPLIANT (E C(UL)US







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