

GE Interlogix Fiber Options

9902VMPD-9910VMPD







Video Multiplexer With Two-Way Multi-protocol Data

Product Specification

Features

- ✓ 2 to 10 Channels of video
- ✓ Two-way multi-protocol data
- **✓** SMARTS™ Diagnostics
- Optical budget: 10 20 dB
- ✓ Digital multiplexing technology
- Extended temperature range
- ✓ Optical automatic gain control
- NTSC and PAL video formats
- ✓ Forever Warranty™

Description

Fiber Options' 9900VMPD Video With Multi-protocol Data Multiplexers represent a technological breakthrough in the simultaneous transmission of multiple full-frame, real-time video signals (color or monochrome) over one or two single-mode optical fibers combined with two-way transmission of multiprotocol data.

The 9900VMPD series multiplexers feature a 6.5 MHz per channel bandwidth, optical automatic gain control (OAGC), and **SMARTS**TM (Status Monitoring And Reliability Test System) diagnostics.

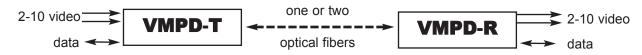
Supported data formats include RS-232 3- and 5-wire, RS-422, RS-485 2- and 4-wire, TTL, Manchester, Biphase, and SensorNetTM.

Basic Models

9902VMPD1-9910VMPD1 9902VMPD2-9910VMPD2 9902VMPD2L-9910VMPD2L

1-Fiber link, 1310/1550 nm 2-Fiber links, 1310 nm 2-Fiber links, 1550 nm.

SYSTEM DIAGRAM



VIDEO

Number of Channels: 2, 4, 6, 8, or 10 Video Bandwidth: Standards Supported: NTSC, PAL Video Resolution: Video Input/Output Signal: 1.0 V p-p composite, Differential Phase:

1.0 V p-p composite, Differential Phase: <2.5° min. 200 mV sync Differential Gain: <3%

Input/Output Impedance: 75 Ω

Signal-to-Noise Ratio: >57 dB at max. atten.

6.5 MHz/channel

520 TV lines

SERIES 9900VMPD

DATA

Number of Channels: 1. bidirectional

I/O Data Formats: RS-232, 5-wire and 3-wire (w/ & w/out handshake);

TTL; RS-422; Manchester; Biphase; Sensornet™; RS-485, 2-wire and 4-wire, with 200 mV, 1 and 2 V

offsets

Baud Rate:

RS-232, Manchester,

Biphase: 250 kbps

RS-422, RS-485,

TTL: 512 kbps <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.

ELECTRICAL

99XXVMPD units are supplied with a 613P separate

power supply:

Input Voltage: 100 - 240 VAC, 60/50 Hz Output Voltage: 13.5 VDC, regulated

Power Consumption: 50 W

Protection: Solid-state short circuit

protection (no fuse required)

OPTICAL

1310/1550 nm Wavelength: Optical Mode: Single Mode Data Rate: 1.5 Gbps

Optical Budget:

1-Fiber Units: 10 dB 2-Fiber 1310 Units: 13 dB 2-Fiber 1550 Units: 20 dB

Operating Distance*:

1-Fiber Units: 15 mi (25 km) 2-Fiber 1310 Units: 20 mi (32 km) 2-Fiber 1550 Units: 41 mi (66 km)

Emitter Type: Laser Fiber Type: 8.3 µm

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

Dimensions: Width: 19.0 in (483 mm)

> Depth: 11.7 in. (297 mm) Height: 1.72 in (44 mm)

Transmitter: 5.47 lb (2.49 kg) Weight:

Receiver: 5.16 lb (2.35 kg)

Construction: Aluminum

Finish: Black semigloss paint Mounting Method: May be rack mounted, wall

mounted, or desktop

mounted.

SMARTSTM INDICATORS

Level/Loss™, Link Ready, Data In, Data Out, Enable,

Video 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

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

MTBF: >100.000 hours

*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.

FCC PART 15 COMPLIANT (E CUL)US







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