



GE Interlogix Fiber Options

S709V16



16-Channel Multimode Digital Video System



Product Specification

Features

- ✓ 16 video channels on a single fiber
- ✓ Digital multiplexing technology
- ✓ Color or monochrome
- ✓ Uses Coarse Wavelength Division Multiplexer (CWDM) technology
- ✓ Optical Automatic Gain Control
- ✓ Supports NTSC, PAL, and SECAM video formats
- ✓ SMARTS™ diagnostics, including on-screen monitor displays
- ✓ Forever Warranty™

Description

Fiber Options' S709V16 Video Multiplexer system represents a technological break-through in the simultaneous transmission of multiple full-frame, real-time video signals (color or monochrome) over one multimode fiber.

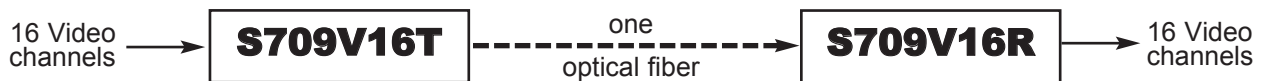
The sixteen-channel S709V16 system accepts analog baseband input signals and converts them to digital format for transmission, assuring high-quality video outputs at the receiver. The unit uses CWDM technology for maximum distance capability over a single multimode fiber.

A built-in video test pattern generator on the transmitter aids in system setup. Additional on-screen diagnostics indicate insufficient optical power or an inactive video channel for each output.

Basic Model Description

S709V16-L 1-Fiber link, 1310/1330/1350/1370 nm

SYSTEM DIAGRAM



VIDEO

Number of Channels:	16	Video Bandwidth:	6 MHz
Standards Supported:	NTSC, PAL, SECAM	Video Resolution:	>480 TV lines
Video Input/Output Signal:	1.0 V p-p composite	Differential Phase:	0.7°
Input/Output Impedance:	75 Ω	Differential Gain:	2%
Signal-to-Noise Ratio:	>55 dB		

SERIES S709V16

ELECTRICAL

Input Voltage:	13.5 VDC, regulated
Current Requirement:	2.6 A
Rack Module	
Power Factor:	21
Power Consumption:	36 W
Protection:	Solid-state short circuit protection (no fuse required)
Card Replacement:	Cards are hot swappable

OPTICAL

Optical Mode:	Multimode
Wavelength:	1310/1330/1350/1370 nm
Optical Budget*:	13 dB standard
Operating Distance**:	3.2 mi (5.2 km)
Emitter Type:	Laser
Fiber Type:	62.5 μ m
Gain Control:	Optical automatic (OAGC)
Transmitter	
Launch Power:	-15 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

MECHANICAL

Width:	5 slots, 5.0 in. (127 mm)
Weight:	3.23 lb (1.47 kg)
Construction:	Aluminum
Finish:	Black semigloss paint

SMARTSM INDICATORS

Level/LossSM, Video In/Out, Laser

CONTROLS

Alarm Disable, Test Pattern Select

AGENCY COMPLIANCE AND MTBF

Emissions:	FCC Part 15, ICES-003, AS/NZS 3548, EN55022
Immunity:	EN50130-4, EN61000-3-2, -3
Safety:	UL1950, CAN/CSA 22.2, NO.950-95
Laser Safety:	21CFR1040, EN 60825
MTBF:	>100,000 hours

*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.

FCC PART 15
COMPLIANT



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