

FUMS-G Series Unmanaged Ethernet Switches

4- OR 8-PORT, 10/100/1000 MBPS, REQUIRING FSFP MODULE

Product Features

- 10/100/1000 Mbps Ethernet
- Electrical Port Supports Autonegotiation for 10/100/1000 Mbps, Full-Duplex or Half-Duplex Data
- Optical Port Supports 1000 Mbps Full-Duplex Data
- Automatic Medium Dependent Interface/Medium Dependent Interface Crossover (MDI/MDI-X) Operation
- Designed to Meet NEMA TS 1/TS 2 and Caltrans Traffic Signal Control Equipment Environmental Standards
- Uses Interchangeable Small Form-Factor Pluggable (FSFP) Modules for Specific Fiber Type, Distance, and Connector (Must Be Ordered Separately)
- Voltage Transient Protection on All Power and Signal Input/Output Lines Provides Protection from Power Surges and Other Voltage Transient Events
- LED Status Indicators for Monitoring All Critical and Normal Operating Parameters
- Hot-Swappable Rack Modules
- Stand-Alone or Rack-Mountable Modular Design
- Compliant with IEEE 802.3 Standards



The **FUMS-G Series** Ethernet 4- and 8-port unmanaged switches are designed to transmit and receive 10/100/1000BASE-T(X) or 1000FX data through user-selectable small form-factor pluggable (FSFP) transceivers (ordered separately). The plug-and-play design of these FSFP modules ensures ease of installation requiring no electrical or optical adjustments.

Modular in design, these models may be either wall- or rack-mounted. LED indicators display operating status and critical operating parameters. These models are designed to operate in extreme environments. External power is required for the **FUMS-G Series** units. The units can be powered with the recommended FEXTPS fiber external power supply.

The optical transmission of Ethernet-compatible IP camera surveillance video makes the **FUMS-G Series** ideal for transportation, airport, and college campus applications.



TECHNICAL SPECIFICATIONS

MODELS*

FUMS-GFX4	Ethernet unmanaged switch, requires FSFP modules [†] , 1000 Mbps, 4 data ports
FUMS-GFX8	Ethernet unmanaged switch, requires FSFP modules [†] , 1000 Mbps, 8 data ports

ELECTRICAL

Power Input	9 to 24 VDC
Power Consumption	
FUMS-GFX4	12 W
FUMS-GFX8	17 W
MTBF	>100,000 hours
LED Indicators	Optical link, data; Electrical link, data; Power

DATA

Data Interface	Ethernet
Data Rate	10/100/1000 Mbps, IEEE 802.3 compliant Electrical port, full-duplex or half-duplex Optical port, full-duplex
Operating Mode	FSFP dependent [†]

OPTICAL

Data Rate	1000 Mbps
Wavelength	FSFP dependent [†]
Number of Fibers	FSFP dependent [†]

MECHANICAL

Connectors	
Optical	FSFP dependent [†]
Power	Terminal block
Data	FSFP dependent [†]
Number of Rack Slots	
FUMS-GFX4	1
FUMS-GFX8	2

*These switches do not support Internet Group Management Protocol (IGMP) and should not be used as a core switch.

[†]Requires selection of interchangeable FSFP modules (must be ordered separately) for specific fiber type, distance, and connector. Refer to FSFP Series Transceivers specification sheet for model number and description of FSFP modules. Multimode fiber must meet or exceed fiber standard ITU-T G.651. Single-mode fiber must meet or exceed fiber standard ITU-T G.652.

GENERAL

Dimensions	
FUMS-GFX4	15.5 × 13.5 × 2.8 cm (6.1" D × 5.3" W × 1.1" H)
FUMS-GFX8	15.5 × 13.5 × 5.6 cm (6.1" D × 5.3" W × 2.2" H)
Operating Temperature	-40° to 75°C (-40° to 167°F)
Storage Temperature	-40° to 85°C (-40° to 185°F)
Relative Humidity	0 to 95%, noncondensing
Weight	
Unit	<0.45 kg (1.00 lb)
Shipping	0.90 kg (2.00 lb)

CERTIFICATIONS/RATINGS

- CE, Class E
- FCC, Part 15
- UL Listed
- C-Tick
- IEEE 802.3
- Designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards

RECOMMENDED ACCESSORIES

EURACK	Rack-mount chassis for up to 14 fiber optic modules, internal power supply, European power cord
USRACK	Rack-mount chassis for up to 14 fiber optic modules, internal power supply, North American power cord
FEXTPS	Fiber external power supply with multiple plug adaptors (North American, Australian, United Kingdom, and European); 100 to 240 VAC, 50 to 60 Hz input, 9 VDC output

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