

FUMS-F Series Unmanaged Ethernet Switches

4- OR 8-PORT, 10/100 MBPS, WITH AND WITHOUT FSFP MODULES

Product Features

- 10/100 Mbps Ethernet
 - 10Base-T/100Base-TX Electrical Port
 - 100Base-FX Optical Port
- Electrical Port Supports Autonegotiation for 10 Mbps or 100 Mbps, Full-Duplex or Half-Duplex Data
- Optical Port Supports 100 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-F Series** Ethernet 4- and 8-port unmanaged switches are designed to transmit and receive 10/100 Mbps data over optical fiber through user-selectable small form-factor pluggable (FSFP) options; or 10 Mbps or 100 Mbps data over Cat5e or Cat6 electrical cable. The electrical interface autonegotiates between 10 Mbps or 100 Mbps Ethernet rates without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate.

These units integrate four or eight independent 10/100 Mbps channels in a single package. The FUMS-FFX4TX4, FUMS-FFX2TX2, FUMS-FTX4, and FUMS-FFX8 require interchangeable FSFP modules (ordered separately) for specific fiber type, distance, and connectors.

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-F 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-F Series** ideal for transportation, airport, and college campus applications.



by Schneider Electric

International Standards
Organization Registered Firm;
ISO 9001 Quality System



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TECHNICAL SPECIFICATIONS

MODELS*

FUMS-FFX8	Ethernet unmanaged switch, requires FSFP modules [†] , 100 Mbps, 8 FX optical ports
FUMS-FFX4TX4	Ethernet unmanaged switch, requires FSFP modules [†] , 10/100 Mbps, 4 TX electrical and 4 FX optical ports
FUMS-FTX8	Ethernet unmanaged switch, 10/100 Mbps, 8 TX electrical ports
FUMS-FFX4	Ethernet unmanaged switch, 100 Mbps, 4 FX optical ports
FUMS-FFX2TX2	Ethernet unmanaged switch, requires FSFP modules [†] , 10/100 Mbps, 2 TX electrical and 2 FX optical ports
FUMS-FTX4	Ethernet unmanaged switch, requires FSFP modules [†] , 10/100 Mbps, 4 TX electrical ports

ELECTRICAL

Power Input	9 to 24 VDC
Power Consumption	
FUMS-FFX4, FUMS-FFX2TX2, FUMS-FTX4	12 W
FUMS-FFX8, FUMS-FFX4TX4, FUMS-FTX8	17 W
Cable	Cat5e or Cat6
MTBF	>100,000 hours
LED Indicators	Optical link, data; Electrical link, data; Power

DATA

Data Interface	Ethernet
Data Rate	10/100 Mbps, IEEE 802.3 compliant
Operating Mode	Electrical port, full-duplex or half-duplex Optical port, full-duplex

OPTICAL

Data Rate	100 Mbps
Wavelength	FSFP dependent [†]
Number of Fibers	FSFP dependent [†]

MECHANICAL

Connectors	
Optical	FSFP dependent [†]
Power	Terminal block
Electrical	RJ-45
Number of Rack Slots	
FUMS-FFX4, FUMS-FFX2TX2, FUMS-FTX4	1
FUMS-FFX8, FUMS-FFX4TX4, FUMS-FTX8	2

GENERAL

Dimensions	
FUMS-FFX4, FUMS-FFX2TX2, FUMS-FTX4	15.5 × 13.5 × 2.8 cm (6.1" D × 5.3" W × 1.1" H)
FUMS-FFX8, FUMS-FFX4TX4, FUMS-FTX8	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

*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.

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