

10 and 12 Port Managed Industrial Ethernet Switch, IESM S 308-2F, 4F, 4FG, 4S

Features



- Supports multiple combination for RJ-45 ports and fiber ports (ST/FC/SC/SFP slot)
- Supports IGMP Snooping and GMRP filter multicast packet
- Supports port-based VLAN, IEEE 802.1Q VLAN and GVRP
- Supports QoS (IEEE 802.1p/1Q) and TOS/DiffServ
- Supports STP/RSTP, SNMPv1/v2/v3
- Adopts RMON to improve network monitor forecast ability
- Support A-ring (single ring and cross ring)
- Support port mirroring, convenient for online debug
- Supports port transmission rate limitation, broadcast / multicast / uncertain unicast storm control
- Supports Power and Port failure Relay Alarm function

Overview

IESM S 308X series are managed industrial Ethernet switches. It supports up to 8 of 10/100 Copper ports, upto 4 of 100FX fiber ports & upto 4 of 1000FX SFP ports. It supports 1 console port, provides CLI management; and it supports industrial field Ethernet layer 2 protocol. This series supports port mirroring, VLAN, IGMP, QoS, STP, RSTP, and other management functions such as Console, Telnet, Web, SNMP, and relay alarm output. It provides safe and reliable solution for industrial automation, intelligent transportation, video monitoring, and other industrial application networking access.

Specification

Standards & Protocols

- Standards : IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3ab, IEEE802.3z, IEEE802.1Q, IEEE802.1p, IEEE802.1s, IEEE802.1D, IEEE802.1W
- Protocol : ICMP, TCP, HTTP, Telnet, A-Ring, STP/RSTP, SNMP, LLDP, IGMP-Snooping, GMRP
- Flow control : IEEE802.3x flow control, back pressure flow control

Ports

- Fiber port : Upto 4 of 100Base-FX (SC/FC/ST) and Upto 4 Giga SFP Ports
- RJ-45 ports : 8 of 10/100Base-T(X), Auto MDI/MDI-X

Transmission Distance

- Cat. 5e : 100m

Fiber

- Single-mode : 1310nm 20/40/60Km
1550nm 20/40/60/80/100/120Km
- Multi-mode : 1310nm 2Km

- A Ring Recovery time** : Less than 500 msec with 100 switches

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Switching Performance

Forwarding rate:
100M ports : 148,810pps
1000M ports : 1,488,095pps
Transmission mode : Store-and-Forward
MAC address buffer : 8K
Switching bandwidth : 9.6G
Switch Latency : < 10 μ sec
DRAM : 512 MB
Flash Memory : 128 MB

Power Requirement

Dual Power Inputs
Option 1: 12/24/48VDC (10.8~52.8VDC)
Option 2: 110/220VAC (88~264VAC), 50-60Hz or 110V/220VDC (88~264VDC)

Power Consumption

Full load : <15W

Relay capacity : 1A @ 24VDC

Mechanical Characteristics

IP rating : IP40
Weight : 1170g
Installation : DIN-Rail
Size : 150 mm*70mm*120mm (H*W*D)

Environment

Operating temperature : -40°C~85°C
Storage temperature : -40°C~85°C
Relative humidity : 0~95% (non-condensing)

Industrial Standards tested for

EMI :
FCC Part 15 , CISPR (EN55022) class A
EMS:
IEC(EN)61000-4-2(ESD)
IEC(EN)61000-4-3(RS)
IEC(EN)61000-4-4(EFT)
IEC(EN)61000-4-5(Surge)
IEC(EN)61000-4-6(CS)
IEC 60068-2-27(Shock)
IEC 60068-2-32(Freefall)

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Ordering Model Code : IESM S 308-*F-XX00-YY-Z

Model	10/100 Base T Ports	100 Base FX Ports	1000Base FX Ports	1000 Base FX SFP Ports
IESM S 308-2F- XX00-YY-Z	8	2		
IESM S 308-4F-XX00-YY-Z	8	4		
IESM S 308-4FG-XX00-YY-Z	8		4	
IESM S 308-4S-Z	8			4

- XX : Fiber type**
MM for Multimode, SM for Singlemode. Singlemode is by default
- 00 : Fiber distance. 20Km by default**
- YY : Fiber Connector**
SC for SC Connector, ST for ST Connector
- Z : Input Supply**
: DC for 12/24/48V DC is by default
: AC for 110/220V AC/DC

Dimension

