

16 and 20 Port Managed Industrial Ethernet Switch, IESM S 3016, 3012-4F, 3016-4S, 3012-4F-4S



IESM S 30XX series are Managed Industrial Ethernet switches. It supports up to 16 10/100 Copper ports, 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.

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
- Supports A-ring (Single ring and Cross ring)
- Support Port mirroring, convenient for online debug
- Supports Port transmission rate limiting Broadcast/Multicast/uncertain Unicast storm control
- Supports Power, port, A Ring, Abnormal temperature Relay Alarm function

Specification

Standards & Protocols

Standards : IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W, IEEE802.1x, IEEE802.3x

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

RJ-45 ports : Upto 16 of 10/100Base-T(X), Auto MDI/MDI-X

Fiber port : Upto 4 of 100Base-FX (SC/FC/ST) and Upto 4 Giga SFP Ports

Transmission Distance

Cat. 5e : 100m

Fiber

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

Multi-mode : 1310nm 2Km

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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 : 11.2G

Power Requirement

Voltage input : Option 1 : Dual 12 to 48VDC (10.8~52.8VDC) OR
: Option 2 : Dual 110 to 220V AC / DC (Range 88 to 264V)

Power Consumption

Full load : <15W. 625mA@24V

Mechanical Characteristics

IP rating : IP40
Weight : 200g
Installation : DIN-Rail

Dimension

Size : 70 mm * 150mm * 120mm (W*H*D)

Environment

Operating temperature : -40°C to 75°C
Storage temperature : -40°C to 75°C
Relative humidity : 0 to 95% (non-condensing)

Industrial Standards tested for

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

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Ordering Model Code : IESM S 301*-*F-XX00-YY-4SG-Z

Model	10/100 Base T Ports	100 Base FX Ports	1000 Base FX SFP Ports
IESM S 3016-Z	16		
IESM S 3012-4F-XX00-YY-Z	12	4	
IESM S 3016-4SG-Z	16		4
IESM S 3012-4F-XX00-YY-4SG-Z	12	4	4

XX : Fiber type
 MM for Multimode, SM for Singlemode. Singlemode is by default

00 : Fiber distance. 20Km by default for Singlemode

YY : Fiber Connector
 SC for SC Connector, ST for ST Connector

Z : Input Supply :
 DC for 12/24/48 DC, Dual Input
 AC for 110 to 220V AC / DC Dual Input

Note : SFP to be ordered separately
: SFP is 1000M fixed

Dimension

