

16-port 10 / 100 / 1000BASE-TX+4G SFP Managed Industrial Switch, Model IESMG 3016-4S Y



IESMG 3016-4S Y is an hardened 20-port Industrial Ethernet Switch, provides non-blocking wire-speed performance in harsh industrial environment. It also provides 16-port 10 / 100 / 1000BASE-TX RJ45 + 4G SFP delivered in rugged, strong case. It is suitable for such applications in climatically demanding environments with wide temperature range from -40°C to 80°C. The IESMG 3016-4S Y provides the flexibility to all kinds of 10 / 100 / 1000Mbps Ethernet Media on RJ-45 port and performs highly stable Fiber performance.

The IESMG 3016-4S Y is packaged in a compact IP40 case with DIN rail. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 12V DC to 52V DC power supply inputs for high availability applications requiring dual or back up power inputs.

Interface

- ✓ 16-port 10 / 100 / 1000 Base-Tx RJ-45 with Auto negotiation and Auto-MDI / MDI-X function
- ✓ 4-port Gigabit SFP uplink

Industrial conformance

- ✓ 12V to 52V DC, Redundant power input
- ✓ -40°C to 80°C operating temperature
- ✓ IP40 aluminium housing
- ✓ Supports 6KV DC Ethernet ESD protection
- ✓ Supports 6KV DC EFT protection for Power line
- ✓ Free Fall, Shock and Vibration Stability
- ✓ DIN-rail and wall-mountable hardware design

Specifications

TX Port	16 *10/100/1000 RJ-45 ports, Auto-MDI / MDI-X
FX Port	4G SFP Slot
Performance Specification	Bandwidth : 56Gbps Packet Buffer Memory : 12Mbit Packet Forwarding Rate : 42Mpps MAC Address Table : 8K
Maximum Frame Size	10240 bytes packet size
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Enclosure	IP40 Aluminum housing
LED Indicator	Power : Red Fiber : Link 2(Green) Ethernet : Yellow
Power Input	12 to 52V DC Redundant power
Power Consumption	< 10W
Surge protection	± 4KV
Network Protocols	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u, 100Base-TX / FX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x,

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Network cables	10BASE-T : Cat3,4,5 UTP(≤100 meter) 100BASE-TX : Cat5 or later UTP(≤100meter) 1000BASE-TX : Cat6 or later UTP(≤100 meter)
Industry Standard Tested for	FCC CFR47 Part 15,EN55022 / CISPR22, Class A IEC61000-4-2 (ESD) : ±8kV (contact), ±12kV (air) IEC61000-4-3 (RS) : 10V/m (80 to 1000MHz) IEC61000-4-4 (EFT) : Power Port: ±4kV, Data Port: ±2kV IEC61000-4-5 (Surge) : Power Port: ±2kV/DM, ±4kV/CM, Data Port : ±2kV IEC61000-4-6 (CS) : 3V (10kHz-150kHz), 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)
MTBF	>300,000 hours
Dimensions (W x D x H)	166×137×68.5mm
Installation	DIN rail
Weight	1.18KG
Working Environment	Working temperature : -40 to 80°C Storage temperature : -40 to 80°C Relative Humidity : 5% to 95 %(no condensation)

Software

Port Features	IEEE 802.3x Flow control Interface counters Storm Control
Link Aggregation	Static Aggregation Dynamic Aggregation, LACP Supports up to 8 Aggregation groups, each group up to 8 ports Support Source MAC, Destination MAC, Source Destination MAC, Source IP, Destination IP, Source Destination IP routing strategy
MAC Table Management	Support
Forwarding mode	Support IVL forwarding mode
Static MAC Address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
Mirror	Port-based Mirror
Spanning Tree	IEEE802.1d STP IEEE802.1w RSTP IEEE802.1s MSTP
ERPS (G.8032)	Single Ring, Sub-Ring, Multi-Ring Load balance Recovery Time < 50ms
GVRP	Supported
QINQ	VLAN-based Q in Q
LLDP	LLDP LLDP-MED
Loop Protection	Supported

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VLAN	4094 VLAN
	Port-based VLAN
	GVRP
Protocol VLAN	MAC-based VLAN
	IP Subnet-based VLAN
Voice VLAN	Static entry
	LLDP-MED
Port Isolate	Support
IGMP	Snooping IGMP V1 Snooping
	IGMP V2 Snooping
	IGMP V3 Snooping
	Source Port Check
	IGMP Fast Leave
	IGMP Filter
MLD Snooping	MLD V1 Snooping
	MLD V2 Snooping
	Source Port Check
	MLD Fast Leave
	MLD Filter

Security

ACL	ACL (IP Standard ACL), IPv4 / IPv6
	MAC extend ACL
	IP extend ACL
	L2, L3, L4 fields match
	Log, Redirection, Mirroring, Speed limit
QoS	QoS Class, Remarking
	SP, WRR queue scheduling
	Ingress port-based rate-limit
	Ingress priority-based rate-limit
	Egress port-based rate-limit
	Egress queue-based rate-limit
	Policy-based QoS
	Storm Control
Dot1x	8 queues per port
	Port Access Control
	User Access Control
	MAC-address Access Control
AAA	Support 802.1x
	Support RADIUS
	Supports authentication, authorization, and accounting through RADIUS server

Management

User management	Password protection
SNMP	SNMP V1 / V2c / V3

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RMON	Statistics Group
	History Group
	Alarm Group
	Events Group
Web management	HTTP V1.1, HTTPS
Firmware Upgrade	Reversion Upgrade
IPv4 / IPv6	Support
CLI	Support
Syslog / Debug	Support
Diagnosis	Ping (IPv4), ping (IPv6)
	Trace route (IPv4)
	Trace route (IPv6)
NTP	NTP Client
DHCP	DHCPv4 Client, DHCPv6 Client
DHCP Snooping	DHCP snooping table
	Trust Port
IPv6 DHCP-Guard	Support
Telnet	Telnet Server
TFTP	TFTP Client
SSH	SSH Server

Ordering Information : IESMG 3016-4S Y

IESMG	L2 Managed, Giga, Industrial Ethernet Switch
3016	16-port 10 / 100 / 100BASE-TX
4S	4 * Giga SFP
Y	Fixed