



## IES5024 Series

1U Rack Mounting

24-port 100M Layer 2 Managed Industrial Ethernet Switch

- Support maximum 24 optional fiber and copper Ethernet ports
- Adopt SW-Ring patent technology, support single ring, coupling ring, chain ring, Dual-homing ring network function, automatic recovery time of network failure < 20ms
- Support power supply input: 100~240VAC
- Support -40~75°C wide operating temperature range



Industrial Grade

## Introduction

IES5024 series are 24-port 100M layer 2 managed industrial Ethernet switches. This series include eight types of products and provide full 100M copper ports, full 100M fiber ports, 100M fiber/copper ports. It adopts rack mounting to meet the requirements of different application scenes.

Network management system supports various network protocols and industrial standards, such as STP/RSTP, 802.1Q VLAN, QoS, IGMP Static Multicast, Port Trunking, Port Mirroring, etc. It also possesses complete management functions, including Port Configuration, Port Statistics, Access Control, Network Diagnosis, Rapid Configuration, Online Upgrading and so on, and supports CLI, WEB, Telnet, SNMP and other access methods. It can provide users with good experience with friendly design of network management system interface, simple and convenient operation.

This series of products conform to FCC, CE standard and are designed in accordance with industrial grade 4 standard. RST button can instantly restore factory defaults. When power supply or port occurs link failure, ALARM indicator will be bright and send out alarm, meanwhile, alarm device connected to the relay will send out alarm for rapid scene troubleshooting. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart grid, rail transit, smart city, safety city, new energy, aerospace, intelligent manufacturing, military project and other industrial fields.

## Features and Benefits

- ⊙ SNMPv1/v2c is used for network management of various levels.
- ⊙ RMON can be used for efficient and flexible network monitoring
- ⊙ Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging.
- ⊙ QoS supports real-time traffic classification and priority setting.
- ⊙ DHCP server and client can be used for distributing IP address
- ⊙ File management is convenient for device rapid configuration and online upgrading
- ⊙ Port statistics can be used for the port real-time traffic statistics
- ⊙ Support Console/Telnet/WEB management
- ⊙ User password can conduct user hierarchical management to improve the device management security
- ⊙ Mac port lock can enhance the network flexibility and security
- ⊙ E-mail alarm is convenient for immediate fault discovery during remote management
- ⊙ Relay alarm is convenient for troubleshooting of construction site
- ⊙ Storm suppression can restrain the broadcast, unknown multicast and unknown

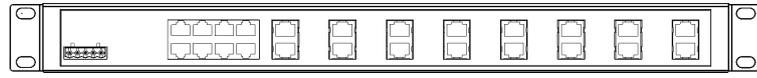
unicast

- ⦿ VLAN can be used for simplifying network planning
- ⦿ Port trunking can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- ⦿ Bandwidth management and flow control can reasonably distribute network bandwidth, preventing unpredictable network status
- ⦿ IGMP snooping, GMRP and static multicast are used for filtering multicast traffic to save network bandwidth
- ⦿ SW-Ring and STP/RSTP can achieve network redundancy, preventing network storm

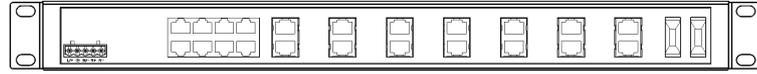


# Dimension

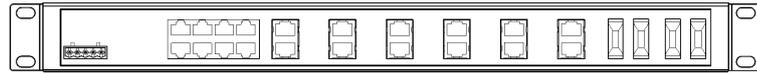
Unit:mm



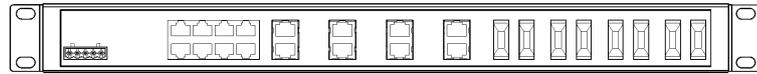
IES5024



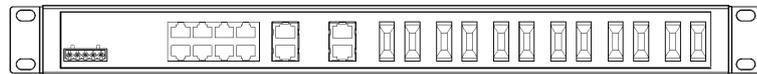
IES5024-2F



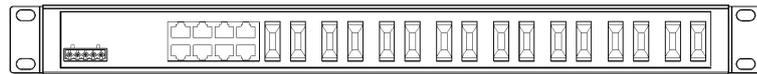
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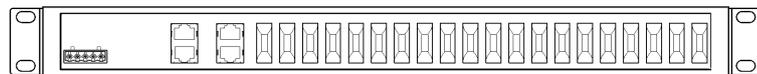
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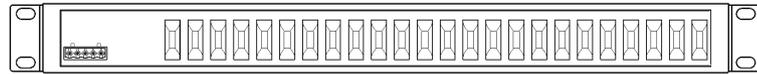
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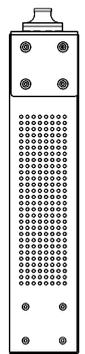
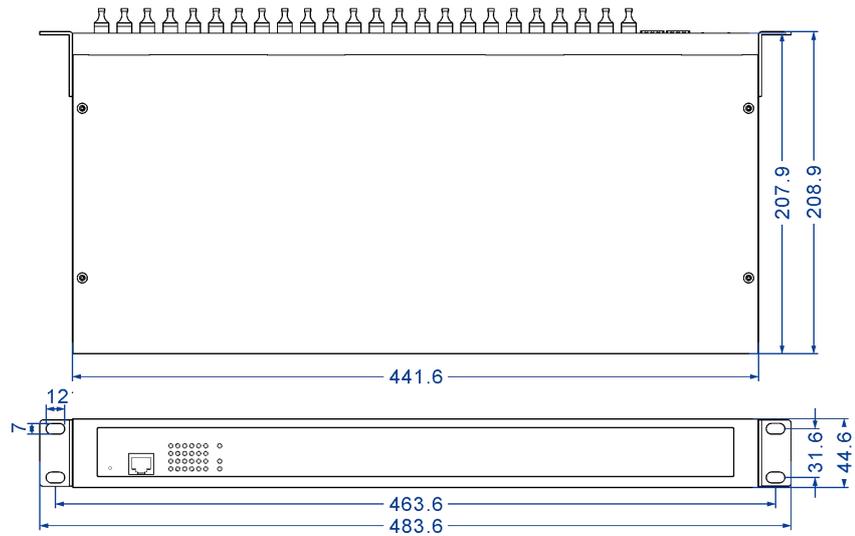
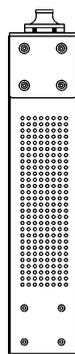
IES5024-16F



IES5024-20F



IES5024-24F



# Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for Flow Control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1Q for VLAN IEEE 802.1p for Class of Service		
Management	Console/Telnet/WEB Management, SNMP v1/v2c Centralized Management of Equipment, RMON, Port Mirroring, QoS, DHCP Server, DHCP Client, File Management, Port Statistics		
Security	Classification of User Permissions, Mac Port Lock, E-mail Alarm, Relay Alarm		
Switch Function	802.1Q Vlan, Static Port Aggregation, Bandwidth Management, Flow Control		
Unicast / Multicast	Static Multicast, GMRP, IGMP-Snooping		
Redundancy Protocol	SW-Ring, STP/RSTP		
Time Management	SNTP		
Interface	Copper port: 10Base-T/100Base-TX, RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotuning Fiber port: 100Base-FX Console port: CLI command line management port (RS-232), RJ45 Alarm port: 2-pin 5.08mm pitch terminal blocks, support 1 relay alarm output, current carrying capacity 2A@250VDC		
LED Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator		
Switch Property	Transmission mode: store and forward MAC address: 8K Packet buffer size: 3M Backplane bandwidth: 12.8G Switch time delay: < 10		
Power Requirement	100~240VAC/DC		
Power Consumption	<b>Model</b>	<b>No-load (@220VAC)</b>	<b>Full-load (@220VAC)</b>
	IES5024	7.4W	10.1W
	IES5024-2F	8.7W	11.4W
	IES5024-4F	10W	12.7W

IES5024-8F	12.6W	15.3W
IES5024-12F	15.2W	17.9W
IES5024-16F	17.8W	20.5W
IES5024-20F	19.4W	20.4W
IES5024-24F	22W	23W

<b>Environmental Limit</b>	<p>Operating temperature range: -40~75°C</p> <p>Storage temperature range: -40~85°C</p> <p>Relative humidity: 5% ~ 95% ( no condensation )</p>
<b>Physical Characteristic</b>	<p>Housing: IP30 protection, metal</p> <p>Installation: 19 inches rack mounting</p> <p>Dimension (W x H x D): 441.6mm×44.6mm×207.9mm</p>
<b>Industrial Standard</b>	<p>IEC61000-4-2 (ESD), Level 4</p> <ul style="list-style-type: none"> <li>● Air discharge: ±15kV</li> <li>● Contact discharge: ±8kV</li> </ul> <p>IEC61000-4-4 (EFT), Level 4</p> <ul style="list-style-type: none"> <li>● Power supply: ±4kV</li> <li>● Ethernet interface: ±2kV</li> <li>● Relay: ±4kV</li> </ul> <p>IEC61000-4-5 (Surge), Level 4</p> <ul style="list-style-type: none"> <li>● Power supply: common mode ±4kV, differential mode ±2kV</li> <li>● Ethernet interface: ±4kV</li> </ul> <p>Shock: IEC 60068-2-27</p> <p>Free fall: IEC 60068-2-32</p> <p>Vibration: IEC 60068-2-6</p>
<b>Certification</b>	CE, FCC, RoHS
<b>Warranty</b>	5 years



## Ordering Information

Available Models	100M Fiber Port	100M Copper Port	Power Supply Range
IES5024	—	24	100~240VAC/DC
IES5024-2F	2	22	
IES5024-4F	4	20	
IES5024-8F	8	16	
IES5024-12F	12	12	
IES5024-16F	16	8	
IES5024-20F	20	4	
IES5024-24F	24	—	



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