3onedata
Reliable Connections

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 optional single/dual AC/DC power supply input: 100~240VAC/DC, 24VDC or 48VDC
- Support -40~75℃ wide operating temperature range

Industrial Grade

Introduction

IES5024 series are 24-port 100M layer 2 managed industrial Ethernet switches. This series include multi types of products and provide full 100M copper ports, 100M fiber/copper ports, supports single/dual power supply, AC/DC power supply. 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, intelligent manufacturing 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

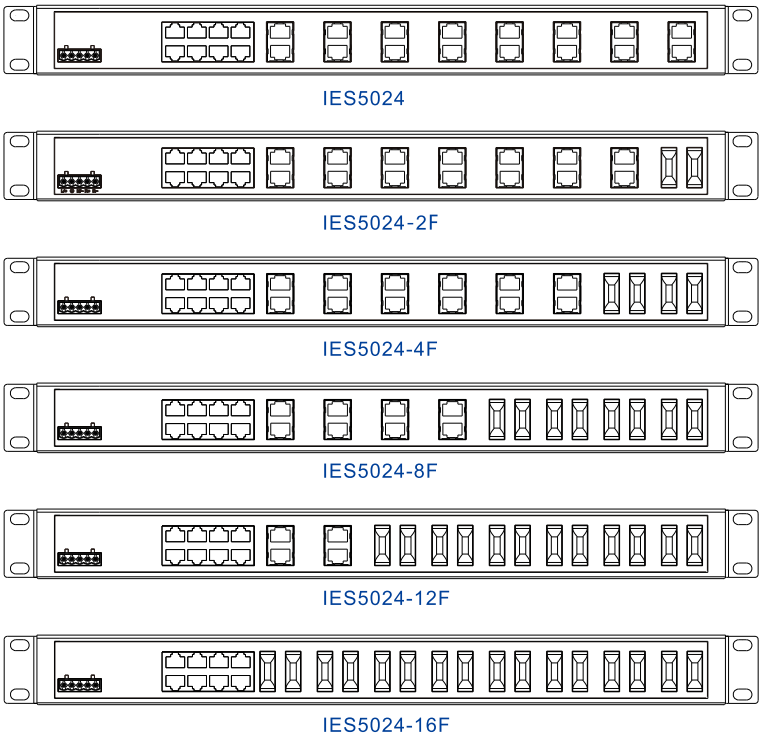
unicast

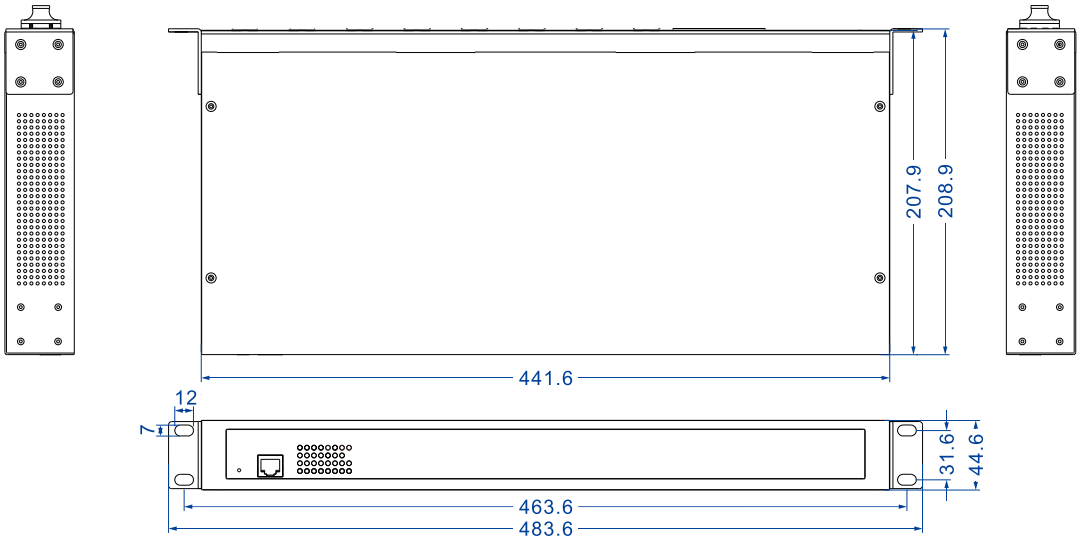
- VLAN can be used for simplifying network planning
- Port trunking can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- Bandwidth management and flow control can reasonably distribute network bandwidth, preventing unpredictable network 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

Note: the following single power supply panels can be selected as dual power supply.





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: 10/100Base-T(X) RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning 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 is 5A@30VDC or 10A@125VAC
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: < 10μs
Power Requirement	Supports single/dual power supply, DC/AC power supply: 1. AC: 100~240VAC/DC 2. DC: 24VDC (12-36VDC), nonpolarity 3. DC: 48VDC (36-48VDC), nonpolarity
Power Consumption	

Model	No-load (@220VAC)	Full-load (@220VAC)
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

Environmental Limit	Operating temperature range: -40~75℃ Storage temperature range: -40~85℃ Relative humidity: 5%～95%（no condensation）
Physical Characteristic	Housing: IP30 protection, metal Installation: 19 inches rack mounting Dimension (W x H x D): 441.6mm×44.6mm×207.9mm
Industrial Standard	IEC61000-4-2 (ESD), Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV IEC61000-4-4 (EFT), Level 4 ● Power supply: ±4kV ● Ethernet interface: ±2kV ● Relay: ±4kV IEC61000-4-5 (Surge), Level 4 ● Power supply: common mode ±4kV, differential mode ±2kV ● Ethernet interface: ±4kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	100M Fiber Port	100M Copper Port	Power Supply (AC/DC)
IES5024	—	24	100~240VAC/DC 24VDC (12~36VDC) 48VDC (36~48VDC)
IES5024-2F	2	22	
IES5024-4F	4	20	
IES5024-8F	8	16	
IES5024-12F	12	12	
IES5024-16F	16	8	

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