3onedata

Make network communication more reliable

IES5028 Series

1U Rack Mounting

28-port 100M/Gigabit Layer 2 Managed Industrial Ethernet Switch

- Support 4 Gigabit fiber ports (SFP slots), 24 100M fiber and copper ports optional
- Adopt SW-Ring patent technology, support single ring, coupling ring, chain ring, Dual-homing ring network function, automatic recovery time of network failure < 20ms
- Full Gigabit bandwidth can enable high performance and speed transmission of large amounts of video, voice, and data
- Power supply input: 100~240VAC/DC
- Support -40~75℃ wide operating temperature range

Industrial Grade

Introduction

IES5028 series are 28-port 100M/Gigabit layer 2 managed industrial Ethernet switches. This series include 8 types of products and provide 100M copper port, 100M fiber port and Gigabit SFP slot. 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.

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.

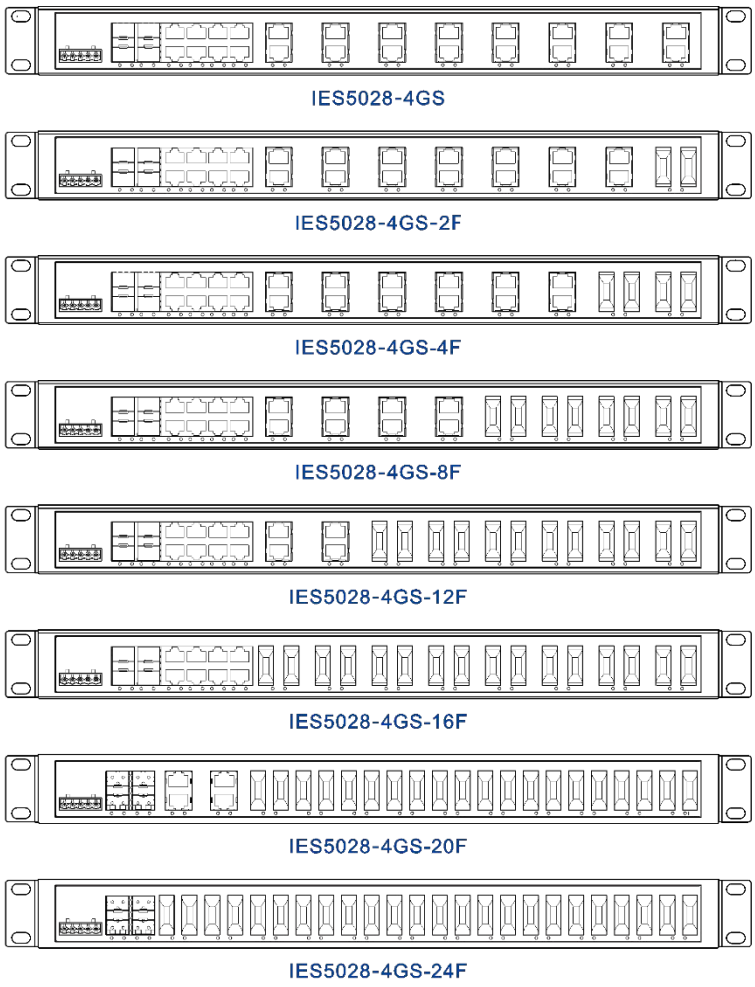
Features and Benefits

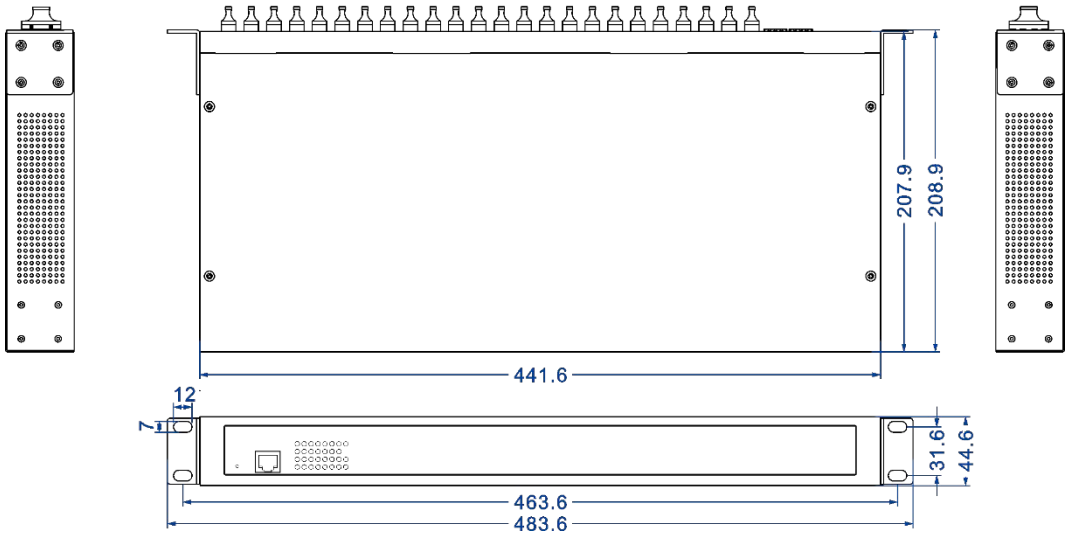
- SNMPv1/v2c is used for network management of various levels
- RMON can be used for efficient and flexible network monitoring
- Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- QoS supports real-time traffic classification and priority setting.
- DHCP server and client can be used for distributing IP address
- File management is convenient for the device rapid configuration and online upgrading
- Bandwidth management can reasonably distribute network bandwidth, preventing unpredictable network status
- Port statistics can be used for port real-time traffic statistics
- User password can conduct user hierarchical management to improve the device management security
- Mac port lock can enhance 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 is used for simplifying network planning
- Port trunking can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- IGMP Snooping, GMRP and static multicast can be used for filtering multicast traffic to save the network bandwidth
- SW-Ring and STP/RSTP can achieve network redundancy, preventing network storm

Dimension

Unit:mm





Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow Control IEEE 802.1D 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	SNMP v1/v2c Centralized Management of Equipment, RMON, Port Mirroring, QoS, DHCP Server, DHCP Client, File Management, Port Statistics
Security	Classification of User Permissions, Port Alarm, E-mail 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, SC/ST/FC optional SFP slot: 1000Base-SFP 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 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: 3Mbit Backplane bandwidth: 12.8G Switch time delay: < 10μs
Power Requirement	100~240VAC/DC support 8A overcurrent protection

	Model	No-load (@220VAC)	Full-load (@220VAC)
Power Consumption	IES5028-4GS	7.4W	13.1W
	IES5028-4GS-2F	8.7W	14.4W
	IES5028-4GS-4F	10W	15.7W
	IES5028-4GS-8F	12.6W	18.3W
	IES5028-4GS-12F	15.2W	20.9W
	IES5028-4GS-16F	17.8W	23.5W
	IES5028-4GS-20F	19.4W	24.1W
	IES5028-4GS-24F	22W	26.2W

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 1U rack mounting Dimension (W x H x D): 441.6mm×207.9mm×44.6mm
Industrial Standard	IEC 61000-4-2 (ESD) , Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV IEC 61000-4-4 (EFT), Level 4 ● Power supply: ±2kV ● Ethernet interface: ±2kV ● Relay: ±4kV IEC 61000-4-5 (Surge), Level 4 ● Power supply: common mode ±4kV, differential mode ±2kV ● Ethernet interface: ±4kV ● Relay: common mode ±4kV, differential mode ±2kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS, UL61010
Warranty	5 years

Ordering Information

Available Models	Gigabit SFP Slot	100M Fiber Port	100M Copper Port	Power Supply Range
IES5028-4GS	4	—	24	100~240VAC/DC
IES5028-4GS-2F	4	2	22	
IES5028-4GS-4F	4	4	20	
IES5028-4GS-8F	4	8	16	
IES5028-4GS-12F	4	12	12	
IES5028-4GS-16F	4	16	8	
IES5028-4GS-20F	4	20	4	
IES5028-4GS-24F	4	24	—	

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China
TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485
E-mail: ics@3onedata.com
Website: www.3onedata.com

Please scan our QR code for more details

*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.