3onedata
Reliable Connections



IES5328 Series

19-inch 1U Rack Mounting

28-Port Gigabit Managed Industrial Ethernet Switch

- Support 4 Gigabit fiber ports (SFP slots), 8 Gigabit Combo ports (SFP slots or RJ45) and 16 Gigabit copper ports
- Adopt Ring patented technology, support single ring, coupling ring, chain, Dual-homing function
- Support ERPS and loop detection, which can eliminate loop effectively and prevent broadcast storm caused by data loop
- Support optional dual AC/DC power supply, input voltage: 110/220VAC(85~264VAC/DC) or 24/48VDC(18~72VDC)
- Support -40~75℃ wide operating temperature range

Industrial Grade Fanless Desig RPS

Introduction

IES5328 series are 28-port Gigabit managed industrial Ethernet switches. This series provides Gigabit SFP slots, Gigabit copper ports and Gigabit fiber and copper multiplexing port. It adopts 1U rack mounting, which can meet the requirements of various industrial networks.

Network management system supports a variety of network protocols and industry standards, such as ARP, ERPS, STP/ RSTP/MSTP, QoS function, LLDP, port trunking, port mirror, etc. It has perfect management functions, supporting port configuration, port statistics, network diagnosis, online upgrade, loop detection, etc. CLI, WEB, Telnet, SSH, SNMP and other access methods can be supported. Network management system could bring you great user experience through its friendly interface design and easy and convenient operation.

This product supports optional dual AC/DC power supply. The input power supply is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. When power supply or port has link failure, ALM 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

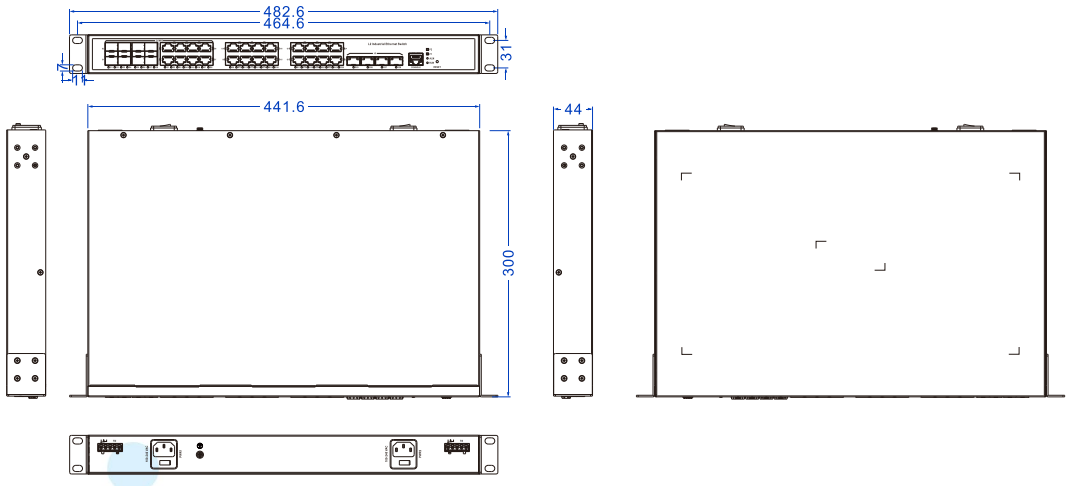
- SNMPv1/v2c/v3 is used for network management of various levels
- Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- QoS supports real-time traffic classification and priority setting
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- DHCP server can be used for distributing IP address with different strategies
- DHCP Snooping can ensure DHCP client gets IP address from legal DHCP server
- DHCP relay function can realize IP address, gateway, DNS configuration cross network segment
- File management is convenient for the device rapid configuration and online upgrading
- Log management records the information of booting, operation and connection
- Bandwidth management can reasonably distribute network bandwidth, preventing unpredictable network status
- Port statistics can be used for the port real time traffic statistics
- ARP could be used for MAC address resolution

- User password can conduct user hierarchical management to improve the device management security
- ACL can enhance network flexibility and security
- Relay alarm is convenient for troubleshooting of construction site
- Storm suppression can restrain broadcast, unknown multicast and unicast
- TELNET configuration and SSH configuration guarantee secure access to data
- 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 to filter multicast data to save network bandwidth
- Bandwidth management and flow control can reasonably distribute network bandwidth, preventing unpredictable network status
- Port isolation could achieve port isolation in the same VLAN and save VLAN resources
- Ring and STP/RSTP/MSTP can achieve network redundancy, preventing network storm
- Conduct network diagnosis and troubleshooting via Ping, Traceroute, SFP digital diagnosis
- With high reliability and stability, ERPS could avoid broadcast storm caused by data loopback
- Loop detection could efficiently eliminate the influence caused by port loopback by detecting the existence of loopback

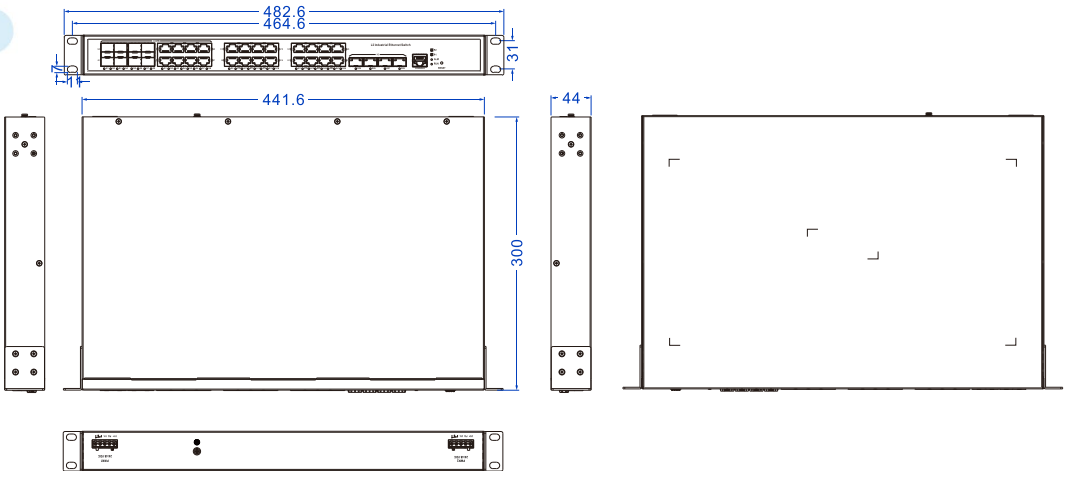
Dimension

Unit: mm

- IES5328-16GT4GS8GC-2HV



- IES5328-16GT4GS8GC-2LV



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T 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 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN IEEE 802.1p for CoS IEEE 802.1AB for LLDP
Management	SNMP v1/v2c/v3 Centralized Management Devices, Port Mirroring, QoS, LLDP, DHCP Server, File Management, Log Management, Port Statistics, ARP
Security	User permission rating, ACL, port alarm, power alarm, storm suppression, Telnet configuration, SSH configuration, link flapping protection, DHCP snooping, loop detection
Switch Function	802.1Q VLAN, Port Trunking, Bandwidth Management, Flow Control, Port Isolation
Unicast / Multicast	Static Multicast, GMRP, IGMP-Snooping
Redundancy Technology	Ring, STP/RSTP/MSTP, ERPS
Troubleshooting	Ping, Traceroute, Port Loopback, SFP Digital Diagnosis

Time Management	NTP
Interface	Gigabit copper port: 10/100/1000Base-T(X) self-adaptive RJ45, automatic flow control, support full/half duplex mode Gigabit SFP: 100/1000Base-X, SFP slots Combo port: 10/100/1000Base-T(X) RJ45 or 100/1000Base-X SFP slot Console port: CLI command line management port (RS-232), RJ45 Alarm port: 2 5-pin 5.08mm pitch terminal blocks (relay occupies 2 pins), support 2 relay alarm outputs, current loading capacity is 5A@30VDC or 10A@125VAC
Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator
Switch Property	Transmission mode: store and forward MAC address: 16K Buffer: 12Mbit Backplane bandwidth: 128Gbps
Power Supply	IES5328-16GT4GS8GC-2HV ● Input voltage: 110/220VAC (85~264VAC/DC) ● Redundant power supply: support dual power supply redundancy ● Overcurrent protection: 5A ● Access terminal: single-phase socket with rocker switch IES5328-16GT4GS8GC-2LV ● Input voltage: 24/48VDC (18~72VDC) ● Redundant power supply: support dual power supply redundancy ● Overcurrent protection: 3A ● Connection protection: anti-reverse connection ● Access terminal: 5-pin 5.08mm pitch terminal blocks (power supply occupies 2 pins)
Power Consumption	IES5328-16GT4GS8GC-2HV: No-load at normal temperature: 9.2W@220VAC Full-load at normal temperature: 23.84W@220VAC No-load at high temperature: 11.31W@220VAC Full-load at high temperature: 25.82W@220VAC IES5328-16GT4GS8GC-2LV: No-load at normal temperature: 9.28W@48VDC Full-load at normal temperature: 23.54W@48VDC No-load at high temperature: 11.21W@48VDC Full-load at high temperature: 25.58W@48VDC

Working Environment	Operating temperature: -40~75℃ Storage temperature: -40~85℃ Relative humidity: 5%~95% (no condensation)
Mechanical Structure	Housing: IP30 protection, metal Installation: 19-inch 1U rack mounting Weight: ● IES5328-16GT4GS8GC-2HV: 3933g ● IES5328-16GT4GS8GC-2LV: 3747g Dimension (W x H x D): 441.6mm×44mm×300mm
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV IEC 61000-4-4 (EFT, electrical fast transient), Level 4 ● Power supply port: ±4kV ● Ethernet copper port: ±2kV IEC 61000-4-5 (Surge), Level 4 ● Power supply port: differential mode±2kV, common mode±4kV ● Ethernet copper port (shielding line): common mode±4kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-31 Vibration: IEC 60068-2-6
Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Model	Gigabit Copper Port	Gigabit SFP	Gigabit COMBO	Power Supply
IES5328-16GT4GS8GC-2HV	16	4	8	110/220VAC (85~264VAC/DC) Redundant power supply
IES5328-16GT4GS8GC-2LV	16	4	8	24/48VDC (18~72VDC) Redundant power supply

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