



## IES6210 Series

DIN-Rail or Wall Mounting

6/10-port 100M/Gigabit Layer 2 Managed Industrial PoE Ethernet Switch

- Support 2 Gigabit Combo ports(SFP slot or RJ45) and 4/8 100M copper ports (optional PoE)
- The maximum power of single PoE port is 30W
- Adopt SW-Ring patent technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure < 20ms
- Support optional AC/DC power supply, DC dual power supply redundancy
- Support -40~75°C wide operating temperature range



Industrial Grade



RPS



## Introduction

IES6210 series are 6/10-port 100M/Gigabit layer 2 managed industrial Ethernet switches. This series provide 100M copper port (optional PoE) and Gigabit Combo port (SFP slot or RJ45), and the PoE power supply conforms to the protocol standard of IEEE802.3af/at. They also adopt DIN-Rail or wall mounting, which can meet the requirements of different scenes.

Network management system supports various network protocols and industrial standards, such as STP/RSTP, 802.1Q VLAN, GVRP, ToS, QoS, LLDP, PoE Configuration, IGMP Static Multicast, Port Trunking, Port Mirroring, etc. It also possesses complete management functions, including Port Configuration, Port Statistics, Access Control, Modbus TCP Monitoring, 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 support optional AC/DC power supply. And the DC power supply input is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. The design of DIP switch can implement restoring factory settings. 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, aerospace, intelligent manufacturing, military project and other industrial fields.

## Features and Benefits

- ⦿ SNMPv1/v2c 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
- ⦿ File management is convenient for rapid configuration and online upgrade of the device
- ⦿ Port statistics can be used for the port real time traffic statistics
- ⦿ User password can conduct user hierarchical management to improve the device management security
- ⦿ Relay alarm is convenient for troubleshooting of construction site
- ⦿ Storm suppression can restrain the broadcast, unknown multicast and unknown

unicast

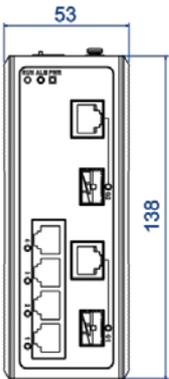
- ⦿ VLAN is used for simplifying network planning
- ⦿ Port Trunking and LACP can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- ⦿ Bandwidth management can reasonably distribute network bandwidth, preventing unpredictable network status
- ⦿ IGMP Snooping 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
- ⦿ Optical fiber diagnosis and troubleshooting can be conducted via SFP DDM
- ⦿ PoE could power device over Ethernet, thus decreasing the cable connection of powered devices
- ⦿ Support Modbus TCP protocol, which could monitor device information in real time
- ⦿ Loop protection could send TRAP alarm to prevent ring network storm
- ⦿ Support Syslog on the web management page

## Dimension

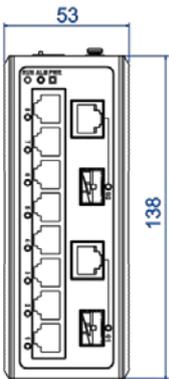
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Unit:mm

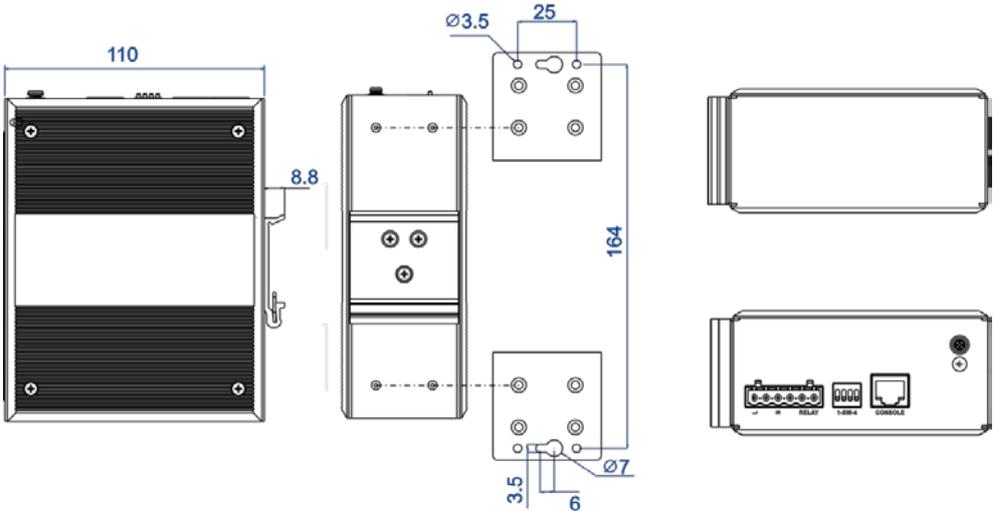
- AC power supply



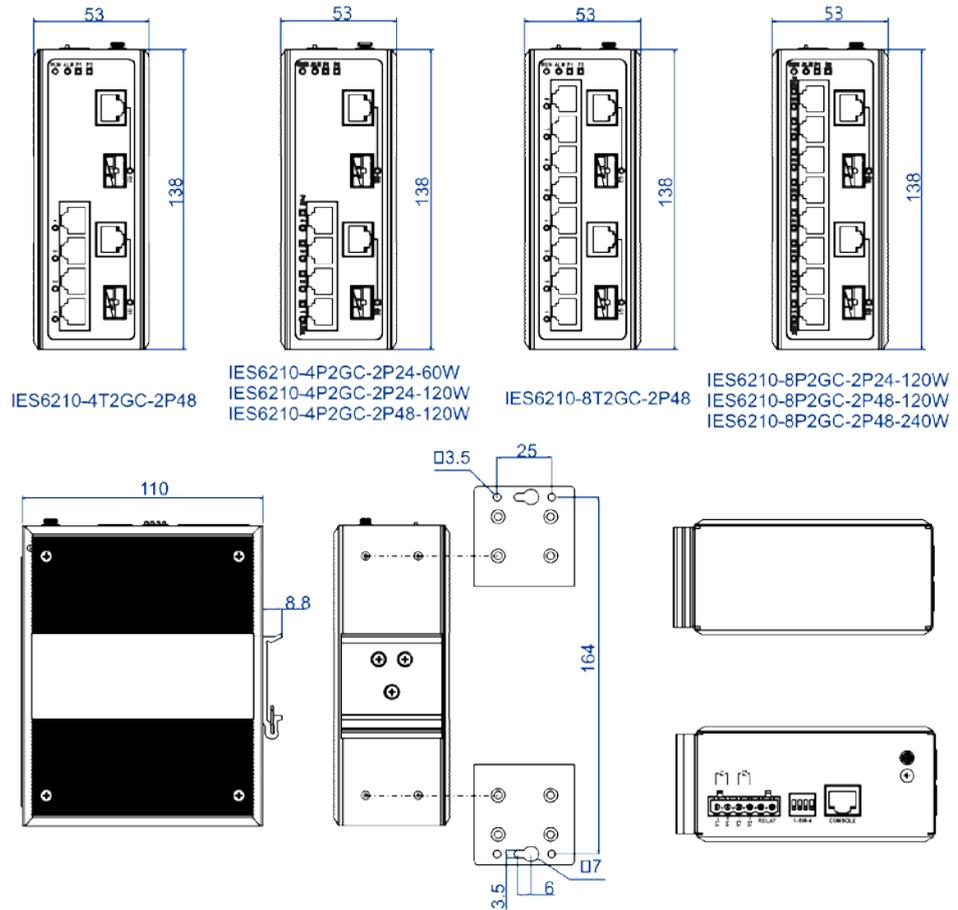
IES6210-4T2GC-P220



IES6210-8T2GC-P220



- DC power supply



## 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 802.1Q for VLAN  
 IEEE 802.1p for CoS  
 IEEE 802.1X for Authentication  
 IEEE 802.3ad for LACP  
 IEEE 802.3af for PoE  
 IEEE 802.3at for PoE+  
 GB/T 19582 for Modbus TCP

### Management

SNMP v1/v2c Centralized Management of Equipment, Modbus TCP  
 Monitoring, Port Mirroring, QoS, LLDP, DHCP Client, File  
 Management, Port Statistics

Security	Classification of User Permissions, Port Alarm, Power Supply Alarm, Storm Suppression, SFP DDM
Switch Function	802.1Q Vlan, Static Port Aggregation, Bandwidth Management, Flow Control
Unicast / Multicast	Static Multicast, IGMP-Snooping
Redundancy Protocol	SW-Ring, STP/RSTP, BPDU guard, MRP(Profinet)
Time Management	NTP/SNTP
PoE	The maximum power of single PoE port: 30W The power supply pin of PoE: V+, V-, V+, V- correspond to Pin 1, 2, 3, 6
Interface	100M copper port: 10/100Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotuning Combo port: 10/100/1000Base-T(X) or 1000Base-X Console port: CLI command line management port (RS-232), RJ45 Alarm port: 6-pin 5.08mm pitch terminal blocks, including 2-pin alarm terminal blocks, support 1 relay alarm output, current carrying capacity is 1A@30VDC or 0.3A@125VAC
LED Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator, PoE Indicator (only for PoE products)
Switch Property	Transmission mode: store and forward MAC address: 8K Packet buffer size: 1Mbit Backplane bandwidth: 7.6G Switch time delay: <10 $\mu$ s
Power Requirement	Optional 24VDC, 48VDC or 220VAC, 6 pins 5.08mm pitch terminal blocks, including 4 pins power supply terminal blocks DC dual power supply redundancy, anti-reverse connection
Power Consumption	<ul style="list-style-type: none"> <li>No-load: <math>\leq 4.9W @ 48VDC</math></li> <li>Full-load: <math>\leq 122.8W @ 48VDC</math></li> </ul>
Environmental Limit	Operating temperature range: -40~75 $^{\circ}C$ Storage temperature range: -40~85 $^{\circ}C$ Relative humidity: 5% ~ 95%(no condensation)
Physical Characteristic	Housing: IP40 protection, metal

	Installation: DIN-Rail or wall mounting Dimension (W x H x D): 53mm×138mm×110mm Weight: ≤0.62kg
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EMC: EN55032/24  
 EMI: FCC Class A  
 EMS:  
 IEC 61000-4-2 (ESD), Level 3

- Air discharge: ±8kV
- Contact discharge: ±6kV

IEC 61000-4-3(RS), Level 3  
 IEC 61000-4-4 (EFT), Level 3

- Power supply: ±2kV
- Ethernet port: ±1kV
- Relay: ±2kV

Industrial Standard

IEC 61000-4-5 (Surge), Level 3

- Power supply: common mode±2kV, differential mode±1kV
- Ethernet port: common mode±2kV, differential mode±1kV
- Relay: common mode±2kV, differential mode±1kV

IEC 61000-4-6(CS), Level 3  
 IEC 61000-4-8  
 IEC 61000-4-11  
 Rail traffic: EN50121-4  
 Shock: IEC 60068-2-27  
 Free fall: IEC 60068-2-32  
 Vibration: IEC 60068-2-6

Certification	CE, FCC, RoHS
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MTBF Time 574,235 hrs

Warranty 5 years



## Ordering Information

Model	Gigabit Combo	100M Copper Port	100M POE Copper Port	Power Supply	PoE Power
IES6210-8T2GC-2P48	2	8	-	12~48VDC dual power supply	-
IES6210-8T2GC-P220	2	8	-	85~264VAC single power supply	-
IES6210-4T2GC-2P48	2	4	-	12~48VDC dual power supply	-
IES6210-4T2GC-P220	2	4	-	85~264VAC single power supply	-
IES6210-8P2GC-2P24-120W	2	-	8	24VDC dual power supply	120W
IES6210-8P2GC-2P48-120W	2	-	8	48VDC dual power supply	120W
IES6210-8P2GC-2P48-240W	2	-	8	48VDC dual power supply	240W
IES6210-4P2GC-2P24-60W	2	-	4	24VDC dual power supply	60W
IES6210-4P2GC-2P24-120W	2	-	4	24VDC dual power supply	120W
IES6210-4P2GC-2P48-120W	2	-	4	48VDC dual power supply	120W



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