3onedata
Reliable Connections



IES6210 Series

DIN-Rail or Wall Mounting

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

- Support 2 Gigabit Combo ports (SFP slot or RJ45), 8 100M copper ports (PoE optional)
- Adopt Ring patented technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure < 20ms
- The maximum power consumption of single-port PoE is 30W, the maximum PoE power consumption of 24VDC products is 120W, and the maximum PoE power consumption of 48VDC products is 240W
- Support 4 optional power inputs: 24VDC, 48VDC, 12/24/48VDC and 220VAC/DC
- Support -40~75℃ wide operating temperature range

Industrial Grade

RPS

Introduction

IES6210 series products are 10-port 100M/Gigabit layer 2 managed industrial Ethernet switches. This product provides 100M copper port (PoE optional) 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, 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, Network Diagnosis, Rapid Configuration, Online Upgrading and so on, and supports CLI, WEB, Telnet, SNMP and other access methods. Network management system could bring you great user experience through its friendly interface design and easy and convenient operation.

Support optional AC/DC power supply. The DC power input consists of two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. The design of DIP switch could implement device factory setting recovery. 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

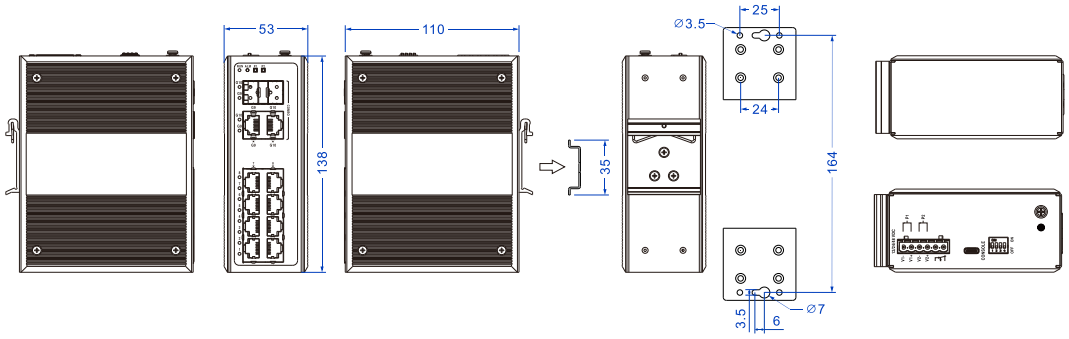
- SNMPv1/v2c is used for network management of various levels
- Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- QoS supports real-time traffic classification and priority setting
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- File management is convenient for rapid configuration and online upgrading 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 broadcast, unknown multicast and 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
- 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
- PoE could power device over Ethernet, thus decreasing the cable connection of powered devices
- 802.1X authentication could strength the flexibility and security of network
- Support port and power connection exception alarm, port rate, CPU and memory utilization rate threshold alarm

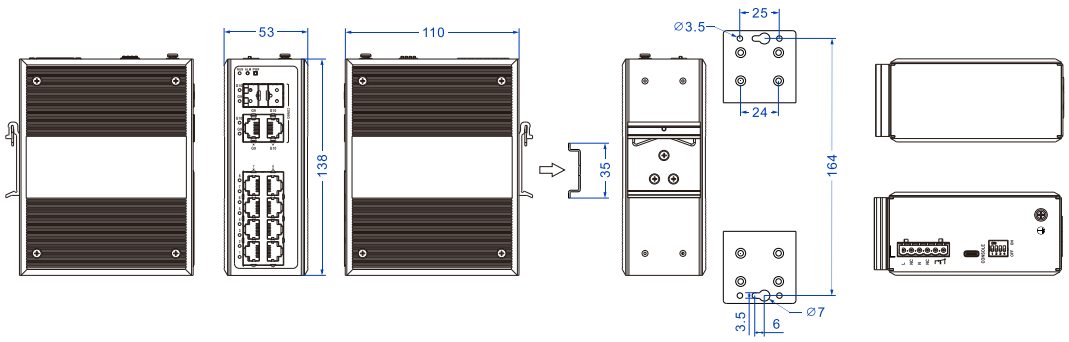
Dimension

Unit: mm

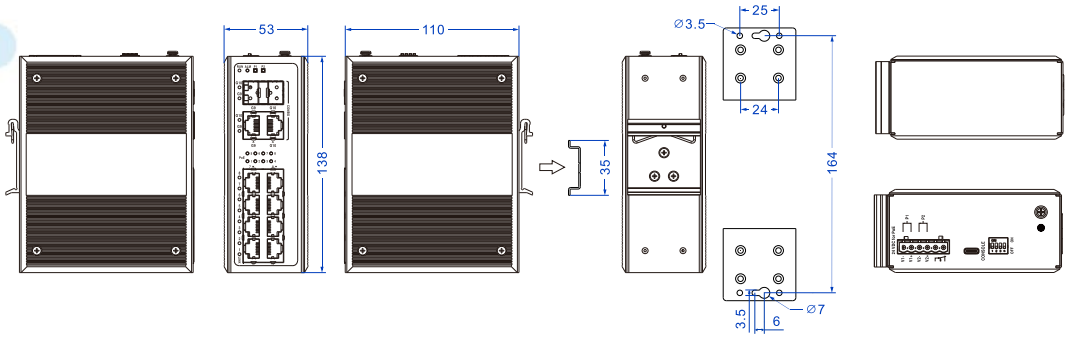
- IES6210-8T2GC-2P48



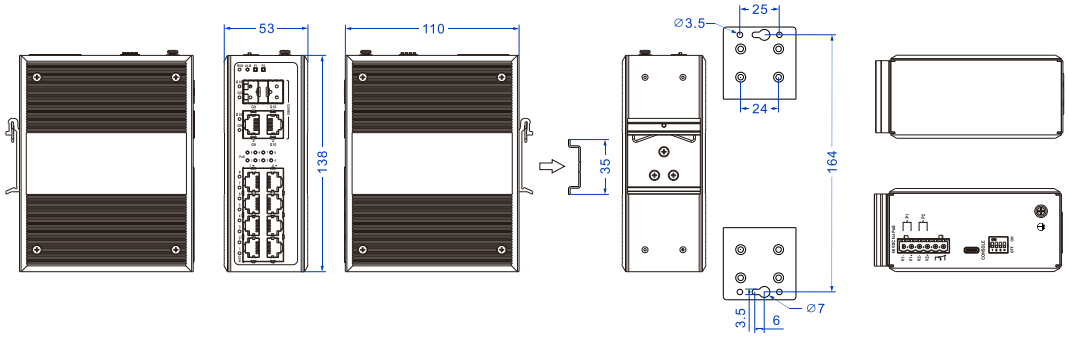
- IES6210-8T2GC-P220



- IES6210-8P2GC-2P24-120W



- IES6210-8P2GC-2P48-240W



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3z for 1000Base-X IEEE 802.3ab for 1000Base-T 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 802.3ad for LACP IEEE 802.3af for PoE IEEE 802.3at for PoE+ IEEE 802.1X for 802.1X Authentication
Management	SNMP v1/v2c Centralized Management of Equipment, Port Mirroring, PoE, QoS, LLDP, DHCP Client, File Management, Port Statistics
Security	Classification of User Permissions, Port Alarm, Power Alarm, Threshold Alarm, Storm Suppression
Switch Function	802.1Q VLAN, Static Port Aggregation, Bandwidth Management, Flow Control

Unicast / Multicast	Static Multicast, IGMP-Snooping
Redundancy Technology	SW-Ring, STP/RSTP
Time Management	SNTP
PoE	The maximum power of PoE single-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, Type-C Relay: 6-Pin 5.08mm pitch terminal blocks (relay occupies 2 pins), support 1 relay alarm output, current loading capacity is 1A@30VDC, 0.3A@125VAC or 6A@250VAC/30VDC
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: 4K Cache: 2Mbit Backplane bandwidth: 9.6Gbps Switch time delay: <10μs
Power Supply	IES6210-8T2GC-2P48: ● Power input: 12/24/48VDC (9~60VDC) ● Connection method: 6-pin 5.08mm pitch terminal blocks (including 4-pin power supply) ● Power supply quantity: dual power supply redundancy input ● Connection protection: 3A overcurrent protection, support anti-reverse connection IES6210-8T2GC-P220: ● Power input: 220VAC/DC (85~264VAC/DC) ● Connection method: 6-pin 5.08mm pitch terminal blocks (including 4-pin power supply) ● Number of power supply: single power supply input ● Connection protection: support non-polarity IES6210-8P2GC-2P24-120W: ● Power input: 24VDC

	• Connection method: 6-pin 5.08mm pitch terminal blocks (including 4-pin power supply) • Power supply quantity: dual power supply redundancy input • Connection protection: 3A overcurrent protection, support anti-reverse connection IES6210-8P2GC-2P48-240W: • Power input: 48VDC (44~57VDC) • Connection method: 6-pin 5.08mm pitch terminal blocks (including 4-pin power supply) • Power supply quantity: dual power supply redundancy input • Connection protection: 3A overcurrent protection, support anti-reverse connection
Power Consumption	IES6210-8T2GC-2P48: No-load at normal temperature 25℃: 2.52W@48VDC Full-load at normal temperature 25℃: 4.16W@48VDC No-load at high temperature 75℃: 2.87W@48VDC Full-load at high temperature 75℃: 4.50W@48VDC IES6210-8T2GC-P220: No-load at normal temperature 25℃: 2.30W@220VAC Full-load at normal temperature 25℃: 4.05W@220VAC No-load at high temperature 75℃: 2.53W@220VAC Full-load at high temperature 75℃: 4.30W@220VAC IES6210-8P2GC-2P24-120W: No-load at normal temperature 25℃: 3.24W@24VDC Full-load at normal temperature 25℃: 122.5W@24VDC (with PoE load) No-load at high temperature 75℃: 3.56W@24VDC Full-load at high temperature 75℃: 123.5W@24VDC (with PoE load) IES6210-8P2GC-2P48-240W: No-load at normal temperature 25℃: 3.4W@48VDC Full-load at normal temperature 25℃: 225.5W@48VDC (with PoE load) No-load at high temperature 75℃: 3.73W@48VDC Full-load at high temperature 75℃: 228.3W@48VDC (with PoE load)
Working Environment	Operating temperature: -40~75℃ Storage temperature: -40~85℃ Relative humidity: 5%~95% (no condensation)
Mechanical Structure	Housing: IP40 protection, metal Installation: DIN-Rail or wall mounting

	Dimension (W x H x D): 53mm×138mm×110mm Weight: ● IES6210-8T2GC-2P48: 0.651kg ● IES6210-8T2GC-P220: 0.690kg ● IES6210-8P2GC-2P24-120W: 0.694kg ● IES6210-8P2GC-2P48-240W: 0.667kg
Industrial Standard	IES6210-8T2GC-2P48: IEC 61000-4-2 (ESD, electrostatic discharge), Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 4 ● Power supply: ±4kV ● Ethernet port: ±2kV ● Relay: ±4kV IEC 61000-4-5 (Surge), Level 4 ● Power supply: common mode ±4kV, differential mode ±2kV ● Ethernet port: common mode ±4kV, differential mode ±2kV ● Relay: common mode ±4kV, differential mode ±2kV IES6210-8T2GC-P220, IES6210-8P2GC-2P24-120W, IES6210-8P2GC-2P48-240W: IEC 61000-4-2 (ESD, electrostatic discharge), Level 3 ● Air discharge: ±8kV ● Contact discharge: ±6kV IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3 ● Power supply: ±2kV ● Ethernet port: ±1kV ● Relay: ±2kV 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 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 Combo Port	100M Copper Port	100M POE Copper Port	Power Supply	PoE Power
IES6210-8T2GC-2P48	2	8	-	2 x 12/24/48 (9~60VDC)	-
IES6210-8T2GC-P220	2	8	-	1 x 220VAC/DC (85~264VAC/DC)	-
IES6210-8P2GC-2P24-120W	2	-	8	2 x 24VDC	120W
IES6210-8P2GC-2P48-240W	2	-	8	2 x 48VDC (44~57VDC)	240W

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