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Make network communication more reliable

# IES6310 Series

## DIN-Rail or Wall Mounting
## 6/10-port Full Gigabit Layer 2 Managed Industrial PoE/non-PoE Ethernet Switch

- Support 2 2.5G Ethernet SFP ports, 4/8 Gigabit copper ports (PoE or non-PoE)
- The maximum power of single-port PoE is 30W
- PoE product supports dual power supply, 48VDC PoE or 24VDC PoE power input
- Support AC/DC power supply, DC dual power supply redundancy
- Support multiple network protocols and industrial standards, such as STP/RSTP, DHCP, VLAN, QoS, IGMP Snooping, LLDP
- Support -40~75℃ wide operating temperature range

# Introduction

IES6310 series are 6/10-port full Gigabit layer 2 managed industrial PoE/non-PoE Ethernet switches. PoE power supply conforms to the protocol standards of IEEE 802.3af/at. This series have 9 types of product, and provide Gigabit copper ports (optional PoE) and 2.5G SFP slots. They support multiple power supply schemes including 220VAC, 12~48VDC, 24VDC POE and 48VDC POE, and adopt DIN-Rail mounting 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, DHCP, VLAN, QoS, IGMP Snooping, LLDP. It also possesses complete management functions, including Port Configuration, Access Control, Online Upgrading. Moreover, it supports CLI, WEB, Telnet, SNMP and other access modes. It can provide users with good experience via friendly design of network management system interface, simple and convenient operation.

The input DC power supply is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. DIP switch can restore factory defaults. When DC 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 AP coverage, railway transportation, smart city, safe city, new energy, smart grid, intelligent manufacturing and other industrial fields.

# Features and Benefits

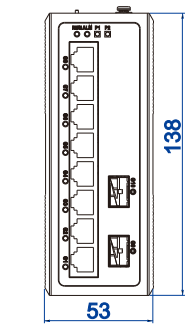
- SNMPv1/v2c/v3 is used for network management of various levels
- RMON can be used for efficient and flexible network monitoring
- QoS supports real-time traffic classification and priority setting
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- DHCP server and DHCP client could be used for allocating IP address of different strategies
- DHCP Snooping ensures the DHCP Client gains IP address from the legal DHCP Server
- The relay function of DHCP can realize the configuration of IP address, gateway and DNS across the network
- File management is convenient for rapid configuration and online upgrade of the device
- Hierarchical configuration of user permission can configure the permission level of user

- SSH and HTTPS configuration can improve the security of device management to ensure the access security of data
- Support AAA service and provide security assurance for multiple services
- IPMC file configuration can deploy access control on the IP multicast flow
- MVR configuration supports multicast communication forwarding on the multicast VLAN
- EPS configuration can realize network status monitoring
- EVC configuration can realize the connection between two points during Ethernet service
- MEP can ensure the range and boundary of maintenance domain
- ERPS can realize link backup and improve the reliability of network
- Relay alarm is convenient for troubleshooting of construction site
- Storm suppression can restrain broadcast, unknown multicast and unknown unicast
- VLAN can simplify the network planning
- Private VLAN can realize the port isolation in the same VLAN and save the VLAN resource
- Voice VLAN can improve the transmission priority of voice traffic for users and ensures the quality of call
- GVRP configuration can be used for registering and logout of VLAN property
- Port trunking and LACP can increase network bandwidth and the reliability of network connection to achieve optimal bandwidth utilization
- IGMP-snooping can be used for filtering multicast traffic to save the network bandwidth
- MLD Snooping can be used for managing and controlling the multicast of IPv6 group
- Link OAM can monitor the healthy status of network and quickly confirm the position of link failure or fault condition
- VCL can realize the MAC address-based, protocol-based and IP subnet-based VLAN division

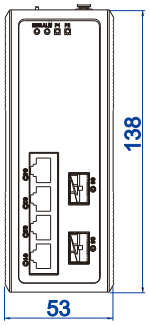
# Dimension

Unit:mm

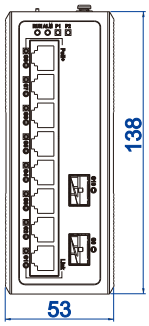
- DC power supply product



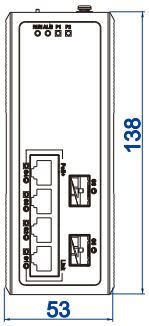

IES6310-8GT2HS-2P48



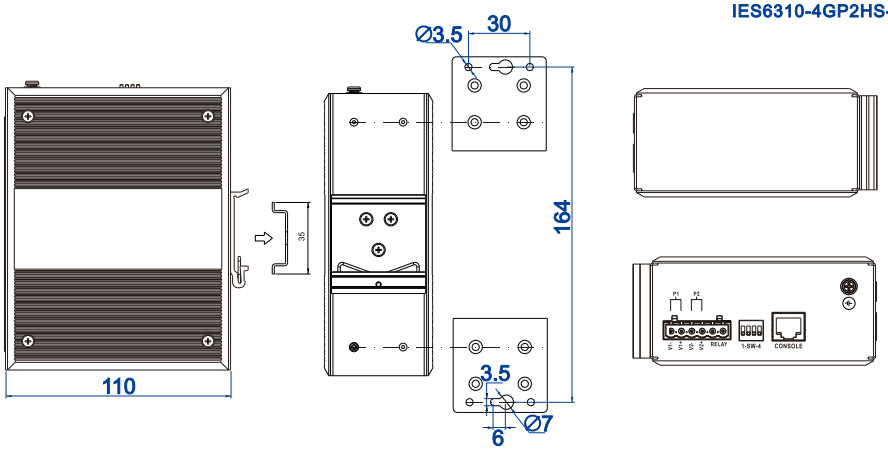

IES6310-4GT2HS-2P48



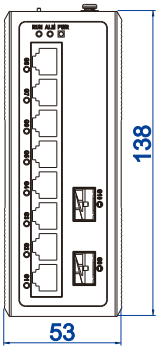

IES6310-8GP2HS-2P24-120W
IES6310-8GP2HS-2P48-240W



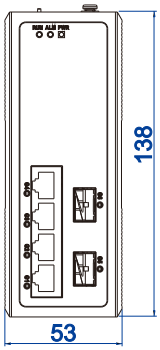

IES6310-4GP2HS-2P24-60W
IES6310-4GP2HS-2P24-120W
IES6310-4GP2HS-2P48-120W




- AC power supply product




IES6310-8GT2HS-P220

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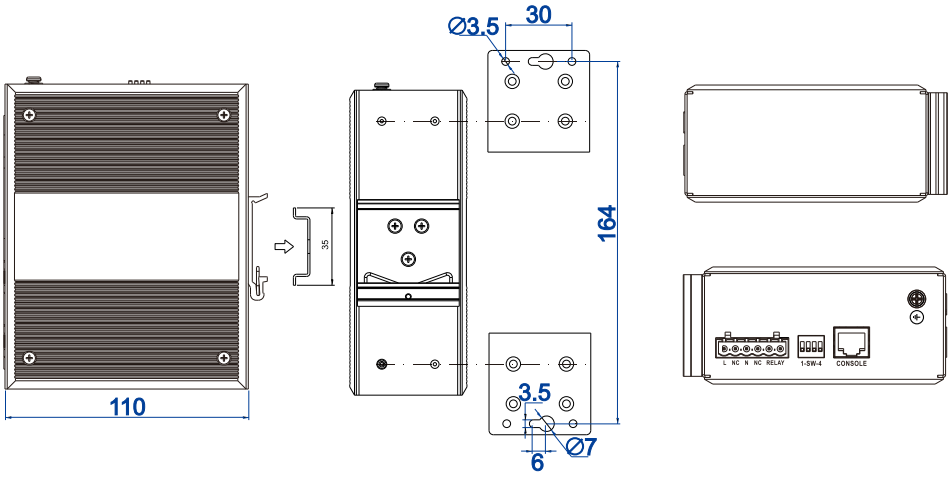


# Specification

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|---|---|
| Standard & Protocol | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3ab for 1000Base-T<br>IEEE 802.3z for 1000Base-X<br>IEEE 802.3x for Flow Control<br>IEEE 802.1D for Spanning Tree Protocol<br>IEEE 802.1w for Rapid Spanning Tree Protocol<br>ITU-T G.8032 for ERPS<br>IEEE 802.1Q for VLAN<br>IEEE 802.1p for CoS<br>IEEE 802.1AB for LLDP<br>IEEE 802.3ad for LACP<br>IEEE 802.3af for PoE<br>IEEE 802.3at for PoE+ |
| Management | SNMP v1/v2c/v3 Centralized Management of Equipment, RMON, Port Mirroring, QoS, LLDP, DHCP Server, DHCP Snooping, DHCP |

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| | Relay, User Password, Login Method, Link OAM, Loop Protection, File Management, Log Management, ETHERNET SERVICES, Port Statistics |
| Security | Classification of User Permissions, Verification Method Configuration, SSH Configuration, HTTPS Configuration, Access Control, SNMP, RMON, NAS, ARP, IP Source Guard, ARP Inspection, AAA, Radius Server Authentication, TACACS+ Server Authentication, ACL, Port Alarm, DC Power Supply Alarm |
| Switch Function | 802.1Q Vlan, Private VLAN, Voice VLAN, VCL, Static/Dynamic Port Aggregation, LACP, sFlow, UPnP |
| Unicast / Multicast | GVRP, IGMP-Snooping, IPMC, MVR, MLD Snooping |
| Redundancy Protocol | STP/RSTP, ERPS |
| Troubleshooting | Ping, Veri PHY |
| Time Management | NTP, Time Zone Configuration |
| PoE | The maximum power of POE port: 30W<br>PoE power supply pin: V+, V+, V-, V- correspond to Pin 1, 2, 3, 6 |
| Interface | Gigabit copper port: 10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning<br>SFP slot: 2.5G SFP, LC<br>Console port: CLI command line management port (RS-232), RJ45<br>Alarm port: 6-pin 5.08mm pitch terminal blocks(relay occupies 2 pins), support 1 relay alarm output, the current load capability is 1A@30VDC or 0.3A@125VAC |
| LED Indicator | Running Indicator, Alarm Indicator, Port Indicator, Power Supply Indicator, PoE Indicator |
| Switch Property | Transmission mode: store and forward<br>MAC address: 8K<br>Packet buffer size: 4Mbit<br>Backplane bandwidth: 26G<br>Switch time delay: <10μs |
| Power Requirement | This series of products provide 4 power supply modes. The PoE product has two optional power supply schemes:<br>Scheme 1 |

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| | • Power supply range: 24VDC PoE<br>• Connection mode: 6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins)<br>• Power supply quantity: dual power supply redundant backup<br>• Connection protection: anti-reverse connection<br>• Over-current protection: 12A<br><br>Scheme 2<br>• Power supply input: 48VDC PoE<br>• Connection mode: 6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins)<br>• Power supply quantity: dual power supply redundant backup<br>• Connection protection: anti-reverse connection<br>• Over-current protection: 5A<br><br>Non-PoE product has two optional power supply schemes:<br>Scheme 3<br>• Power supply range: 12~48VDC<br>• Connection mode: 6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins)<br>• Power supply quantity: dual power supply redundant backup<br>• Connection protection: non-polarity<br>• Over-current protection: 3A<br><br>Scheme 4<br>• Power supply input: 220VAC<br>• Connection mode: 6-pin 5.08mm pitch terminal blocks (power supply occupies 2 pins)<br>• Over-current protection: 5A |
| Power Consumption | IES6310-8GP2HS-2P24-120W<br>• No-load consumption: ≤4W@50VDC<br>• Full-load consumption: 137.2W@50VDC |
| Environmental Limit | Operating temperature range: -40~75℃<br>Storage temperature range: -40~85℃<br>Relative humidity: 5% ~ 95% (no condensation) |
| Physical Characteristic | Housing: IP40 protection, metal<br>Installation: DIN-Rail or wall mounting<br>Weight: ≤740g<br>Dimension (W x H x D): 53mm×138mm×110mm |
| Industrial Standard | IEC 61000-4-2 (ESD), Level 3 |

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| | IEC 61000-4-4 (EFT), Level 3<br>IEC 61000-4-5 (Surge), Level 3<br>Shock: IEC 60068-2-27<br>Free fall: IEC 60068-2-32<br>Vibration: IEC 60068-2-6 |
| Certification | CE, FCC, RoHS |
| Warranty | 5 years |

# Ordering Information

| Available Models | Gigabit Copper Port | Gigabit PoE Port | 2.5G SFP Slot | PoE Power | Power Supply |
|---|---|---|---|---|---|
| IES6310-4GP2HS-2P24-60W | — | 4 | 2 | 60W | Dual power supply 24VDC POE |
| IES6310-4GP2HS-2P24-120W | — | 4 | 2 | 120W | |
| IES6310-8GP2HS-2P24-120W | — | 8 | 2 | 120W | |
| IES6310-4GP2HS-2P48-120W | — | 4 | 2 | 120W | Dual power supply 48VDC POE |
| IES6310-8GP2HS-2P48-240W | — | 8 | 2 | 240W | |
| IES6310-8GT2HS-2P48 | 8 | — | 2 | — | Dual power supply 12~48VDC |
| IES6310-4GT2HS-2P48 | 4 | — | 2 | — | |
| IES6310-4GT2HS-P220 | 4 | — | 2 | — | 220VAC |
| IES6310-8GT2HS-P220 | 8 | — | 2 | — | |

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