IES6100 Series

DIN-Rail or Wall Mounting

8/9 Fiber/Copper Port Layer 2 Managed Industrial Ethernet WiFi Switch

- Support 2 2.4G WIFI antenna interfaces
- Support wireless AP and bridge work modes
- Support 2/3 100M fiber ports (1x9) and 6 100M copper ports
- Adopt patented Ring technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure < 20ms
- Support DC 12/24/48VDC (9~60VDC) dual power supply input
- Support AC 220VAC/DC (85～264VAC/DC) power input
- Support -40~75℃ wide operating temperature range

WiFi Industrial Grade RPS IP40

ROBUST INDUSTRIAL CONNECTION

Introduction

IES6100 series are 8/9-port fiber/copper layer 2 managed industrial Ethernet switches. This series provide 4 products and support 100M copper ports, fiber ports, WiFi antenna interfaces and other kinds of interfaces. They adopt wall or DIN-Rail mounting to meet the requirements of different application scenes.

Network management system supports various network protocols and industrial standards, such as STP/RSTP, MRP, 802.1Q VLAN, QoS Function, LLDP, IGMP Snooping Function, Port Trunking, Port Mirroring, 802.1X, Modbus TCP; Support wireless AP mode and bridge mode; It also possesses complete management functions, including SNMP, DHCP Server, 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.

This series of device supports port alarm. DC power products adopt two independent power supply circuits to ensure that the device can still run normally when one power supply fails;When power supply or port has 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 city, rail transit, smart city, safety city, new energy, intelligent manufacturing and other industrial fields.

Features and Benefits

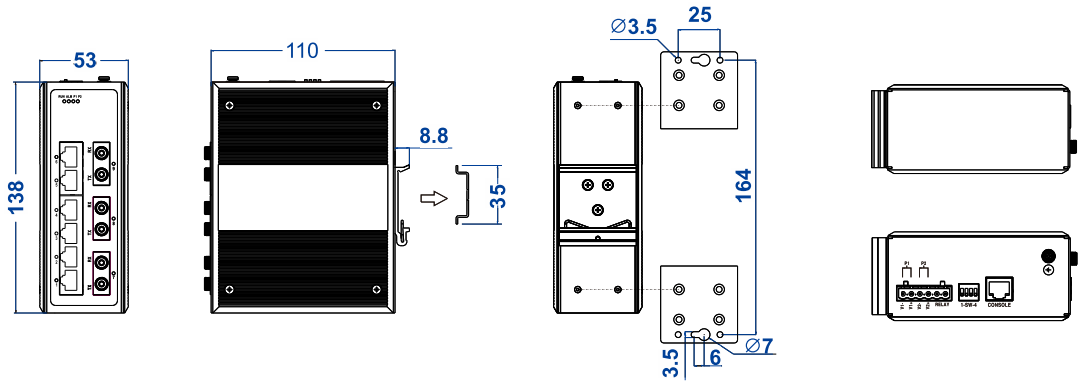
- SNMPv1/v2c/v3 is used for network management of various levels
- Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- QoS supports real-time traffic classification and priority setting
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- File management is convenient for rapid configuration and online upgrading of the device
- Bandwidth management can reasonably distribute network bandwidth, preventing unpredictable network status
- Port statistics can be used for the port real time traffic statistics
- 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
- IGMP Snooping and static multicast can be used for filtering multicast traffic to save the network bandwidth
- Ring, MRP and STP/RSTP can achieve network redundancy, preventing network storm
- 802.1X authentication could strength the flexibility and security of network
- Loop protection could efficiently eliminate the influence caused by port loopback by detecting the existence of port loopback
- Support port and power connection exception alarm, port rate, CPU and memory utilization rate threshold alarm
- Support Modbus TCP protocol, and the client can read the switch information, which is convenient for integrated monitoring and management
- Support wireless AP and bridge work modes, and can be networked wirelessly

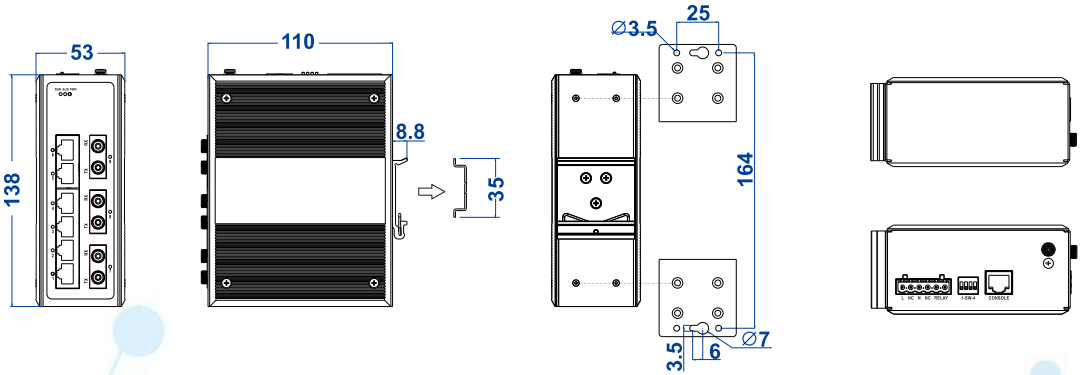
Dimension

Unit: mm

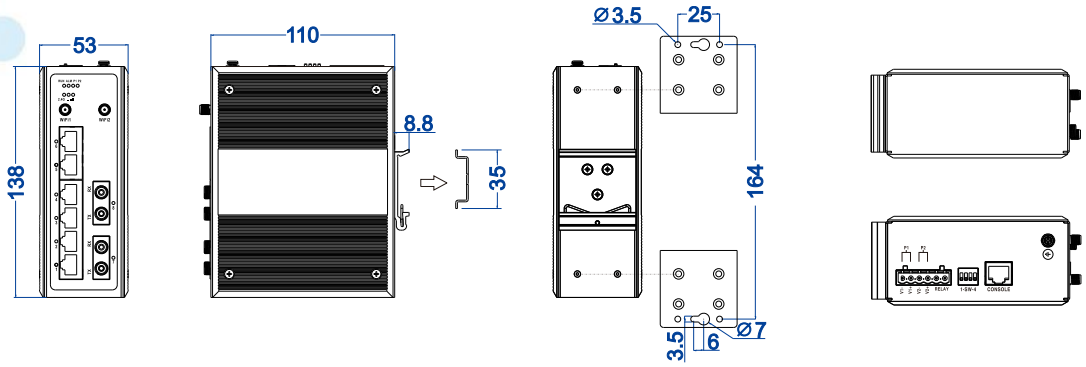
- IES6100-6T3F-2LV



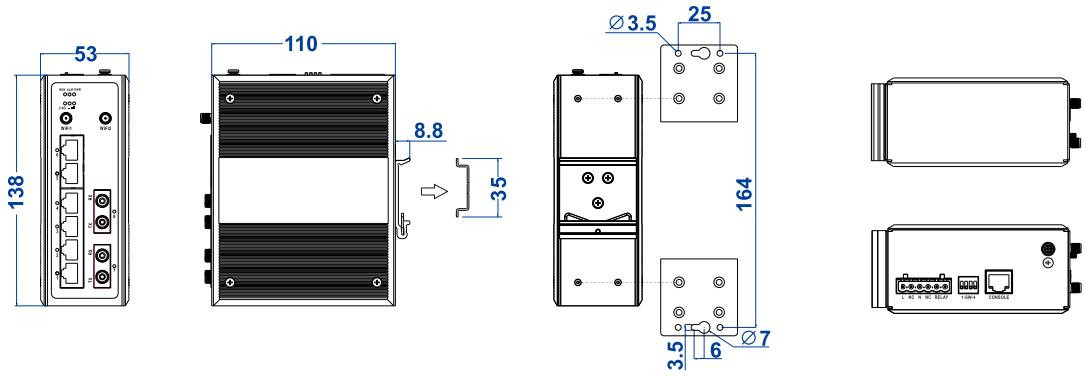
- IES6100-6T3F-HV



- IES6100-6T2F-W2-2LV



- IES6100-6T2F-W2-HV



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX 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 802.1AB for LLDP IEEE 802.1X for 802.1X Authentication
Management	SNMP v1/v2c/v3 Centralized Management of Equipment, Port Mirroring, QoS, LLDP, DHCP Server, File Management, Port Statistics
Security	Classification of User Permissions, Port Alarm, Power Alarm, IEEE802.1X, Threshold Alarm, Loop Protection
Switch Function	802.1Q VLAN, Static Port Aggregation, Bandwidth Management, Flow Control

Unicast / Multicast	Static Multicast, IGMP-Snooping
Redundancy Technology	Ring, STP/RSTP, MRP
Wireless	AP, bridge
Interface	100M copper port: 10/100Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/ MDI-X Autotunning 100M fiber port: 100Base-FX, 1×9 fiber port Console port: CLI command line management port(RS-232), RJ45 Alarm port: 6-pin 5.08mm pitch terminal blocks (2 pins for relay), support 1 relay alarm output Antenna interface: 2 WiFi antenna interfaces, RPSMA-K(Female)
Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator
Switch Property	Transmission mode: store and forward MAC address: 8K Buffer: 1Mbit Backplane bandwidth: 7.6G Switch time delay: <10μs
Power Supply	• DC power supply The rated voltage is 12/24/48VDC (9~60VDC), dual power supplies, and support 6-pin 5.08mm pitch terminal with built-in overcurrent protection, power supplies occupy 4 pins • DC power supply 220VAC/DC (85~264VAC/DC), support 6-pin 5.08mm pitch terminal with built-in overcurrent protection, power supplies occupy 4 pins
Power Consumption	IES6100-6T2F-W2-2LV Full-load: 8.3W@24VDC IES6100-6T2F-W2-2LV No-load: 7.2W@24VDC
Working Environment	Operating temperature: -40~75℃ Storage temperature:-40~85℃ 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: 750g

Industrial Standard	➢ DC products IEC 61000-4-2 (ESD, electronic static 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 copper port: ±4kV ➢ AC products IEC 61000-4-2 (ESD, electronic static discharge), Level 4 ● Air discharge: ± 15kV ● Contact discharge: ±8kV IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3 ● Power supply: ±2kV ● Ethernet port: ±2kV ● Relay: ±4kV IEC 61000-4-5 (Surge), Level 3 ● Power supply: common mode±2kV, differential mode±1kV ● Ethernet copper port: ±4kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	100M Copper Port	100M Fiber Port	Antenna Interface	Power Supply
IES6100-6T3F-2LV-N	6	3	—	12/24/48VDC (9~60VDC), dual power supply
IES6100-6T3F-HV-N	6	3	—	220VAC/DC (85~264VAC/DC)
IES6100-6T2F-W2-2LV-N	6	2	2	12/24/48VDC (9~60VDC), dual power supply
IES6100-6T2F-W2-HV-N	6	2	2	220VAC/DC (85~264VAC/DC)

Accessory Information

Type	P/N	Gain (dBi)	Quantity (pcs)	Remark
2.4G wireless	3005040056	5	2	Standard