



IES7110 Series

DIN-Rail or Wall Mounting

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

- Support 2/3 Gigabit fiber ports (SFP slot) and 7/8 optional 100M fiber/copper ports
- Adopt SW-Ring patented technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure < 20ms
- Gigabit bandwidth can realize transmitting large amounts of video, voice and data with high performance and high speed
- Support dual power supply, input voltage: 12~48VDC
- Support -40~75°C wide operating temperature range



Introduction

IES7110 series are 10-port 100M/Gigabit layer 2 managed industrial Ethernet switches. This series provide 4 products and support a variety of interfaces including 100M copper ports, 100M fiber ports and Gigabit SFP slots. They adopt DIN-Rail mounting or wall mounting to meet the requirements of different application scenes.

Network management system supports various network protocols and industrial standards, such as STP/RSTP, ERPS, 802.1Q VLAN, QoS Function, LLDP, IGMP Static Multicast, Port Trunking, Port Mirroring, 802.1X. 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.

The input power supply 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 could implement device factory setting recovery. 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.

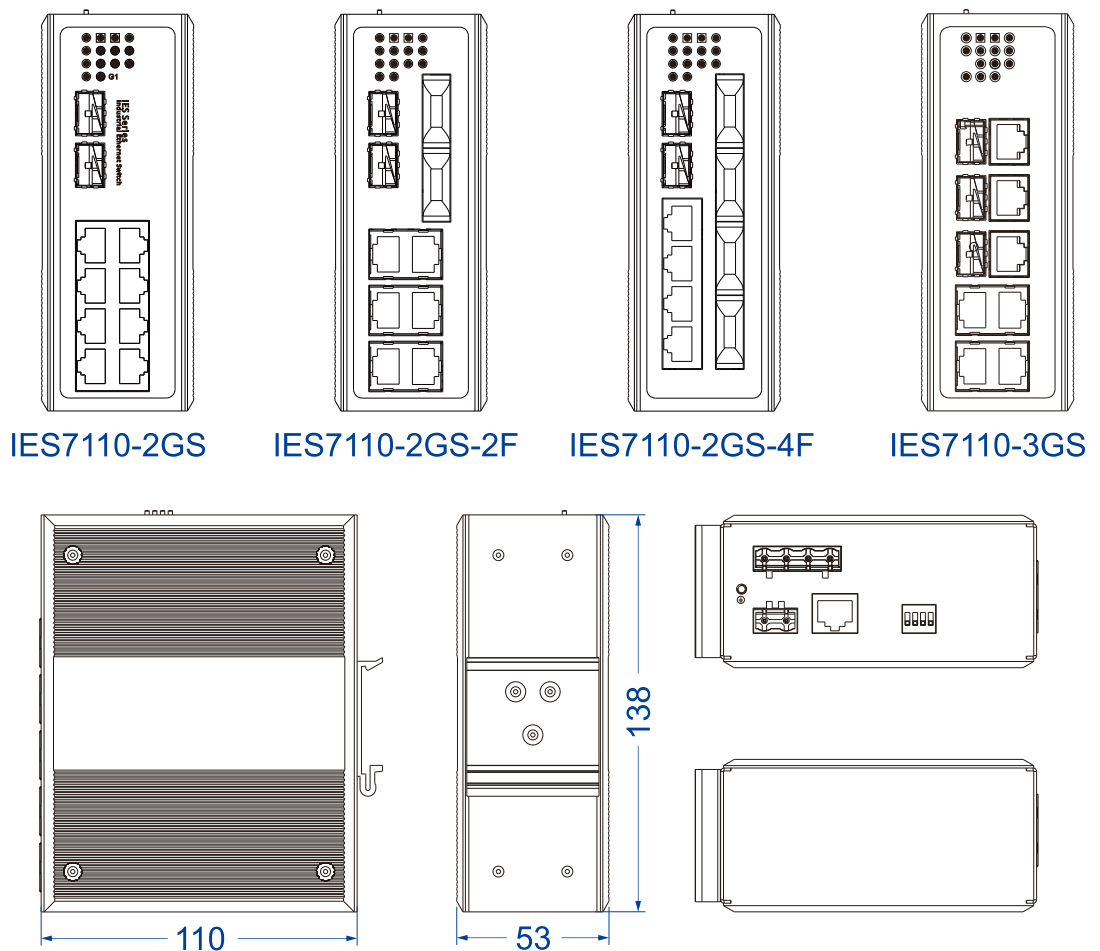
Features and Benefits

- ⦿ SNMPv1/v2c 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
- ⦿ 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
- ⦿ IGMP Snooping and static multicast can be used for filtering multicast traffic to save the network bandwidth
- ⦿ SW-Ring, ERPS and STP/RSTP can achieve network redundancy, preventing network storm
- ⦿ 802.1X authentication could strengthen 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

Dimension

Unit: mm



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX 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 802.1AB for LLDP IEEE 802.1X for 802.1X Authentication ITU-T G.8032 for ERPS
Management	SNMP v1/v2c Centralized Management of Equipment, Port Mirroring, QoS, LLDP, DHCP Client, 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	SW-Ring, ERPS, STP/RSTP
Interface	100M copper port: 10/100Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/ MDI-X Autotuning 100M fiber port: 100Base-FX, optional SC/ST/FC SFP slot: 1000Base-X SFP Console port: CLI command line management port(RS-232), RJ45 Alarm port: 2-pin 7.62mm pitch terminal block, support 1 relay alarm output
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	12~48VDC, 4-pin 7.62mm pitch terminal blocks

Support dual power supply redundancy and non-polarity

Power Consumption	Available Models	No-load(@24VDC)	Full-load(@24VDC)
	IES7110-2GS	2.23W	5.49W
	IES7110-2GS-2F	5.08W	7.94W
	IES7110-2GS-4F	6.14W	9.05W
	IES7110-3GS	2.62W	7.18W

Working Environment

Operating temperature: -40~75°C

Storage temperature: -40~85°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: ≤ 790g

Industrial Standard

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 (exclude IES7110-3GS)

- Power supply: common mode ±4kV, differential mode ±2kV
- Ethernet port: ±2kV
- Relay: common mode ±4kV, differential mode ±2kV

IEC 61000-4-5 (Surge), Level 3 (IES7110-3GS)

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

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	Gigabit SFP Slot	Gigabit Copper Port	100M Copper Port	100M Fiber Port	Power Supply
IES7110-2GS	2	—	8	—	12~48VDC dual power supply
IES7110-2GS-2F	2	—	6	2	
IES7110-2GS-4F	2	—	4	4	
IES7110-3GS	3	—	7	—	



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