



IES7110-2GC

DIN-Rail Mounting

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

- Support 2 gigabit Combo(SFP slots or RJ45), 8 100M copper ports
- Adopt SW-Ring patent technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure < 20ms
- Support dual power supply, input voltage: 12~48VDC
- Support -40~75°C wide operating temperature range



Industrial Grade



RPS



Introduction

IES7110-2GC is 10-port 100M/gigabit layer 2 managed industrial Ethernet switch. This product provides 100M copper ports, gigabit Combo ports (SFP slots or RJ45), and adopt DIN-Rail 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, 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. 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 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 instantly restore factory defaults. 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 grid, railway transportation, smart city, safe city, new energy, aerospace, intelligent manufacturing, military project and other industrial fields.

Features and Benefits

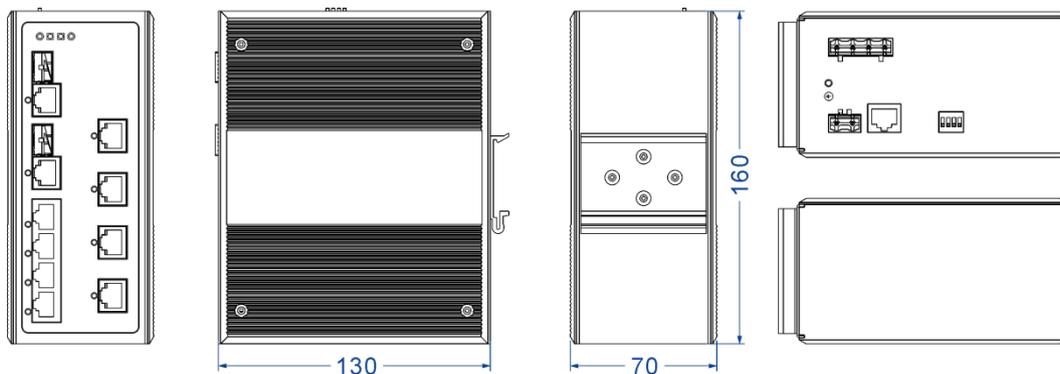
- ⦿ SNMPv1/v2c is used for network management of various levels
- ⦿ Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- ⦿ QoS supports real-time traffic classification and priority setting
- ⦿ File management is convenient for rapid configuration and online 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 administrative security
- ⦿ 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
- ⦿ Port trunking can increase network bandwidth and the reliability of network connection to achieve optimal bandwidth utilization
- ⦿ Bandwidth management and flow control 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

Dimension

Unit:mm



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
Management	SNMP v1/v2c Centralized Management of Equipment, Port Mirroring, QoS, DHCP Client, File Management, Port Statistics
Security	Classification of User Permissions, Port Alarm and Power Supply Alarm
Switch Function	802.1Q Vlan, Static Port Aggregation, Bandwidth Management, Flow Control
Unicast / Multicast	Static Multicast , IGMP-Snooping
Redundancy Protocol	SW-Ring, STP/RSTP

Time Management	Sntp
Interface	<p>100M copper port: 10/100Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Autotuning</p> <p>Combo port: 10/100/1000Base-T(X) or 1000Base-FX</p> <p>Console port: CLI command line management port (RS-232), RJ45</p> <p>Alarm port: 2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output</p>
LED Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator
Switch Property	<p>Transmission mode: store and forward</p> <p>MAC address: 8K</p> <p>Packet buffer size: 1Mbit</p> <p>Backplane bandwidth: 7.6G</p> <p>Switch time delay: <10μs</p>
Power Requirement	<p>12~48VDC, 4-pin 7.62mm pitch terminal blocks</p> <p>dual power supply redundancy, non-polarity, reverse connection protection</p>
Power Consumption	<p>No-load: 7.4W@48VDC</p> <p>Full-load: 12.1W@48VDC</p>
Environmental Limit	<p>Operating temperature range: -40~75$^{\circ}$C</p> <p>Storage temperature range: -40~85$^{\circ}$C</p> <p>Relative humidity: 5% ~ 95% (no condensation)</p>
Physical Characteristic	<p>Housing: IP40 protection, metal</p> <p>Installation: DIN-Rail mounting</p> <p>Dimension (W x H x D): 70mm\times160mm\times130mm</p> <p>Weight: 950g</p>
Industrial Standard	<p>IEC 61000-4-2 (ESD), Level 3</p> <ul style="list-style-type: none"> ● Air discharge: \pm8kV ● Contact discharge: \pm6kV <p>EN61000-4-4 (EFT), Level 3</p> <ul style="list-style-type: none"> ● Power supply: \pm2kV ● Ethernet port: \pm500V ● Relay: \pm2kV <p>IEC 61000-4-5 (Surge), Level 3</p>

	<ul style="list-style-type: none">• Power supply: common mode $\pm 2\text{kV}$, differential mode $\pm 1\text{kV}$• Ethernet port: $\pm 2\text{kV}$• Relay: common mode $\pm 2\text{kV}$, differential mode $\pm 1\text{kV}$ <p>Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6</p>
Certification	CE, FCC, RoHS
Warranty	5 years



Ordering Information

Available Models	Gigabit Combo(SFP Slot or RJ45)	100M Copper port	Power Supply Range
IES7110-2GC	2	8	12~48VDC dual power supply



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