IPS7110 Series

DIN-Rail Mounting

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

- Support 2 gigabit Combo ports(SFP slot or RJ45) and 4/8 100M PoE copper ports

- The maximum power consumption of single PoE is 30W

- 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, input voltage: 48VDC

- Support -40~75℃ wide operating temperature range

CE   FC U.S.A   RoHS   SW-Ring   <20ms RECOVERY   Industrial Grade   RPS   PoE

Introduction

IPS7110 series are 10-port 100M/gigabit layer 2 managed industrial PoE Ethernet switches, and the PoE power supply is up to the protocol standard of IEEE 802.3af/at. This series have two products and provide 100M copper port, PoE copper port and gigabit Combo port (SFP slot or RJ45). They also 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, 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. It can provide users with good experience with 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. 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, 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 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 management security
- Relay alarm is convenient for troubleshooting of construction site
- Storm suppression can restrain the broadcast, unknown multicast and unknown unicast
- VLAN is used for simplifying network planning

- ⊙ Port Trunking and LACP 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
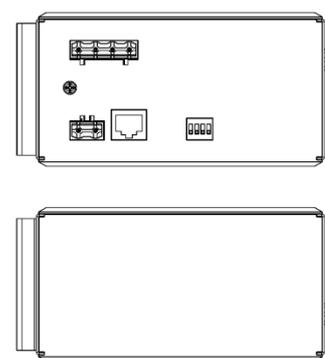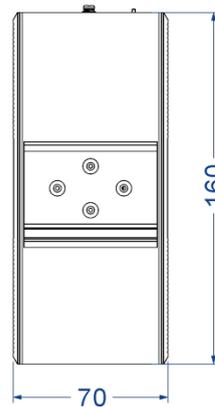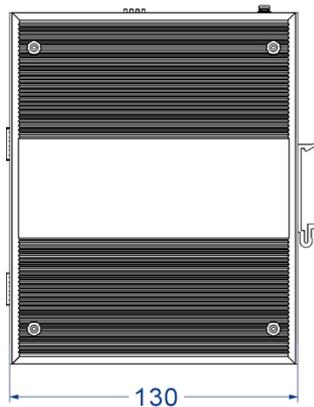
Dimension

Unit:mm
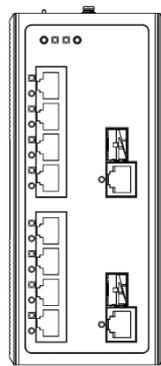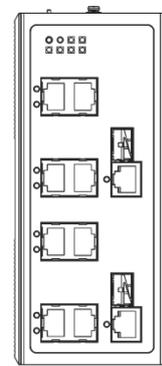
IPS7110-2GC-8POE   IPS7110-2GC-4T-4POE

Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX

	IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow Control IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol EEE 802.1Q for VLAN IEEE 802.1p for CoS IEEE 802.3ad for LACP IEEE 802.3af for PoE IEEE 802.3at for PoE+
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 Supply Alarm, Storm Suppression
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
PoE	The maximum power consumption of PoE 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 Autotunning Combo port: 10/100/1000Base-T(X) or 1000Base-FX Console port: CLI command line management port (RS-232), RJ45 Alarm port: 2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, current carrying capacity is 1A@24VDC or 0.5A@120VAC
LED Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator, PoE Indicator
Switch Property	Transmission mode: store and forward MAC address: 8K Packet buffer size: 1Mbit

	Backplane bandwidth: 7.6G Switch time delay: <10μs
Power Requirement	48VDC, 4-pin 7.62mm pitch terminal blocks Dual power supply redundancy, reverse polarity protection

Power Consumption	model	No-load (@48VDC)	Full-load (@48VDC)
	IPS7110-2GC-8POE	4.3W	123.6W
	IPS7110-2GC-4T-4POE	8.9W	114.4W

Environmental Limit	Operating temperature range: -40~75℃ Storage temperature range: -40~75℃ Relative humidity: 5%～95%(no condensation)
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail mounting Dimension (W x H x D): 70mm×160mm×130mm Weight: ≤1.07kg

Industrial Standard

IEC 61000-4-2 (ESD), Level 3
- Air discharge: ±8kV
- Contact discharge: ±6kV

EN61000-4-4 (EFT), Level 3
- Power supply:±2kV
- Ethernet port: ±2kV
- Relay: ±2kV

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

Certification	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	Gigabit Combo (SFP slot or RJ45)	100M Copper Port	100M POE Copper Port	Power Supply
IPS7110-2GC-8POE	2	–	8	48VDC dual power supply
IPS7110-2GC-4T-4POE	2	4	4	

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China

TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485

E-mail: ics@3onedata.com

Website: www.3onedata.com

◀ Please scan our QR code for more details

Honor・Quality・Service