IPS7112G-4GS-8GPOE

DIN-Rail Mounting

12-port Full Gigabit Managed Industrial Ethernet POE Switch

- Support 4 gigabit SFP slots and 8 gigabit PoE copper ports

- Power consumption of single-port PoE is up to 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 voltage: 48VDC

- Support -40~70℃ wide operating temperature range

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

Introduction

IPS7112G-4GS-8GPOE is 12-port full gigabit managed industrial Ethernet POE switch, its PoE power supply conforms to the protocol standards of IEEE 802.3af/at. This product provides gigabit POE copper ports and SFP slots, and adopts 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/MSTP, 802.1Q VLAN, QoS, IGMP Static Multicast, LLDP, Port Trunking, Port Mirroring, etc. It also possesses complete management functions, including Port Configuration, Port Statistics, Access Control, 802.1X Authentication, 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 reboot device and 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/v3 is used for network management of various levels
- ⊙ RMON can be used for efficient and flexible network monitoring
- ⊙ 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
- ⊙ DHCP server and DHCP client could be used for allocating IP address of different strategies
- ⊙ File management is convenient for rapid configuration and online upgrade of the device
- ⊙ Log management records boot information, operation information and connection information
- ⊙ Bandwidth management and flow control can reasonably distribute network bandwidth, preventing unpredictable network status
- ⊙ Port statistics can be used for the port real time traffic statistics

- ◉ Support Console/Telnet/WEB management
- ◉ User password can conduct user hierarchical management to improve the device administrative security
- ◉ Anti-attack control, ACL and 802.1X authentication could strength the flexibility and security of network
- ◉ Relay alarm is convenient for troubleshooting of construction site
- ◉ Storm suppression can restrain broadcast, unknown multicast and unknown unicast
- ◉ SSHD configuration could encrypt transmitted data, prevent DNS and IP spoofing
- ◉ TELNET configuration and HTTPS configuration could ensure the access security of data
- ◉ VLAN can simplify the network planning
- ◉ Port trunking and LACP can increase network bandwidth and the reliability of network connection to achieve optimal bandwidth utilization
- ◉ IGMP-snooping and static multicast can be used for filtering multicast traffic to save the network bandwidth
- ◉ Port isolation could achieve port isolation in the same VLAN and save Vlan resources
- ◉ SW-Ring and STP/RSTP can achieve network redundancy, preventing network storm
- ◉ Ping, Traceroute, Port Loopback could achieve network diagnosis and troubleshooting
- ◉ PoE could power device over Ethernet, thus decreasing the cable connection of powered devices

Dimension

Unit:mm
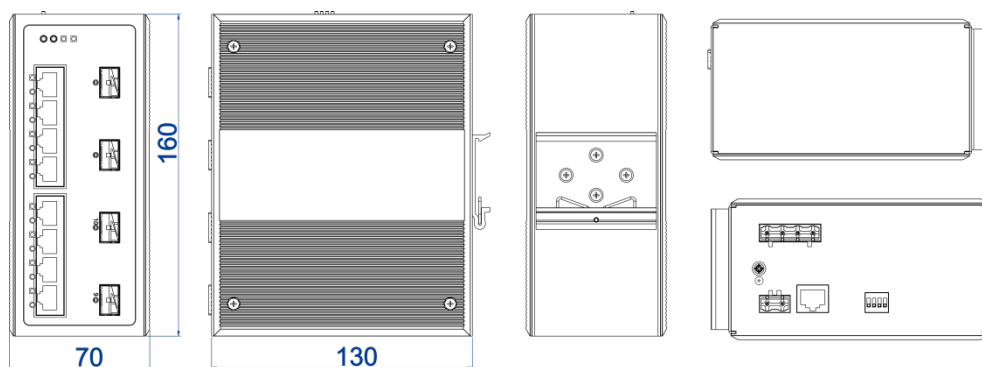
Specification

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 IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN IEEE 802.1p for CoS IEEE 802.1X for 802.1X Authentication IEEE 802.1AB for LLDP IEEE 802.3ad for LACP IEEE 802.3af/at for PoE+
Management	SNMP v1/v2c/v3 Centralized Management of Equipment, RMON, Port Mirroring, QoS, LLDP, DHCP Server, DHCP Client, File Management, Log Management, Port Statistics
Security	Classification of User Permissions, anti-attack control, ACL, 802.1X Authentication, Port Alarm, Power Supply Alarm, Storm Suppression, SSHD Configuration, Telnet Configuration, HTTPS Configuration
Switch Function	802.1Q Vlan, Static/Dynamic Port Aggregation, Bandwidth Management, Flow Control, Port Isolation
Unicast / Multicast	Static Multicast, GMRP, IGMP-Snooping
Redundancy Protocol	SW-Ring, STP/RSTP/MSTP
Troubleshooting	Ping, Traceroute, port loopback
Time Management	SNTP
POE	The maximum power of POE port is 30W PoE pin: V+, V+, V-, V- correspond to Pin 1, 2, 3, 6
Interface	Copper port: 10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning SFP slot: 1000Base-SFP Console port: CLI command line management port (RS-232), RJ45 Alarm port: 2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, the current load capability is 1A/24VDC; 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: 4Mbit

Backplane bandwidth: 24G

Switch time delay: <10μs

Power Requirement	48VDC, 4-pin 7.62mm pitch terminal blocks dual power supply redundancy, reverse polarity protection
Power Consumption	No-load: ≤7.30W@48VDC Full-load: ≤103.49W@48VDC
Environmental Limit	Operating temperature range: -40~70℃ Storage temperature range: -40~85℃ Relative humidity: 5% ~ 95% (no condensation)
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail mounting Weight: 1.07kg Dimension (W x H x D): 70mm×160mm×130mm
Industrial Standard	EN61000-4-2 (ESD) , Level 3 ● Air discharge: 8KV ● Contact discharge: 6KV EN61000-4-4 (EFT) , Level 3 ● Power supply 2kv ● Signal 1kv EN61000-4-5 (Surge) , Level 3 ● Power supply　differential mode 1kv　common mode 2kv ● Signal　differential mode 1kv　common mode 2kv 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 SFP Slot	Gigabit POE Copper Port	Power Supply
IPS7112G-4GS-8GPOE	4	8	48VDC dual power supply

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

*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.