

IES7112G Series

8-port 10/100/1000Base-T(X) + 4-port 1000Base-SFP (optional)

Full Gigabit Managed Industrial Ethernet Switch

Features

- Supports IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1W/D, IEEE802.1s, IEEE802.3ad, IEEE802.1X
- Supports 8 10/100/1000Base-T(X) RJ45 Ethernet ports and 4 1000Base-SFP fiber ports (optional)
- SW-Ring ring network patent technology (Fault recovery time<20ms)
- Supports STP/RSTP/MSTP to enhance network stability
- Supports static multicast, IGMP Snooping and GMRP
- Supports Port based VLAN and IEEE 802.1Q VLAN
- Supports opposite, absolutely, IEEE802.1P, DSCP priority
- Supports SNMP v1/v2C/v3
- Supports LLDP and DHCP function
- Supports port mirror and port trunking
- Supports bandwidth management and storm suppression
- Supports network security management, access control
- Supports 802.1X authentication
- Supports remote network monitoring
- Supports password management and static address locking
- Supports the Web, Telnet management functions, easy to manage
- Supports redundancy DC power supply(12~48VDC)
- Supports 1 channel relay alarm output
- Industrial grade 4 design, -40-75℃ working temperature
- IP40 protection grade, DIN-Rail mounting



Introduction

The IES7112G series switches are high-performance, cost-effective, industrial-grade managed Ethernet switches designed for the power industry. These switches support 8 10/100/1000Base-T(X) Ethernet ports and 4 1000Base-SFP slots (optional). All RJ45 Ethernet ports of switches support automatic flow control, full/half duplex mode and MDI / MDI-X adaptation. The switch adopts the SW-Ring ring network technology (network failure recovery time less than 20ms) independently developed by 3onedata. Users can easily set up redundant ring network to increase network reliability. The switches also support multiple network management functions such as 802.1Q VLAN, QoS, port aggregation, port mirroring, LLDP, LACP, spanning tree, and so on. Products with fanless, low power design, work performance more stable. Products meet the FCC, CE standards, -40 ~ 75 °C operating temperature range to adapt to the harsh working environment, all components are selected industrial grade, to achieve a high reliability, for the power industry users Ethernet device connection Provide a reliable, economical solution.

Specification

Technology

Standard: Support IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1W/D, IEEE802.1s, IEEE802.3ad, IEEE802.1X

Protocol: ARP, ICMP, TCP, DHCP, DNS, HTTP, Telnet, SW-Ring, RSTP, MSTP, LLDP, SSH, LACP, ACL, IGMP, GMRP, SNMP

Flow control: IEEE802.3x flow control, back press flow control

Function

Switch function: SW-Ring, QOS, 802.1QVLAN, RSTP, MSTP, LLDP, LACP, ACL, ROMN, GMRP, IGMP Snooping, SNMP, Port trunking, static multicast filter, port mirroring, bandwidth management, broadcast storm control, port flow statistics, upgrade online, up

and download configuration file, user name access system

SW-Ring: Support Single, Couple, Chain, Dual homing

Exchange attribute

100M forward speed: 148810pps

1000M forward speed: 1488100pps

Transmit mode: store and forward

System exchange bandwidth: 24G

MAC address table: 8K

Memory: 4Mbit

Interface

Gigabit RJ45 port: 10/100 /1000Base-T(X) auto speed control, Half/full duplex and MDI/MDI-X auto detect

Gigabit SFP port: 1000Base-X, SFP slots

Console port: RS-232 (RJ45 connector)

Alarm port: 2-pin 7.62mm spacing terminal block
1 channel relay alarm output

Transfer distance

Twisted cable: 100M (standard CAT5/CAT5e cable)

Multi-mode: 1310nm, 2Km

Single-mode: 1310nm, 20/40Km

1550nm, 60/80/100/120Km

LED indicator

Run indicator: RUN

Interface indicator: Link (G1~G8/G12)

Power supply indicator: P1, P2

Alarm indicator: ALARM

Power supply

Input Voltage: 12~48VDC

Type of input: 4-pin 7.62mm spacing terminal block

DC support reverse connection

DC support redundant power supply

Consumption

➤ IES7112G-4GS

No-load consumption: 4.85W@24VDC

Full-load consumption: 10.32W@24VDC

➤ IES7112G-8GT

No-load consumption: 4.35W@24VDC

Full-load consumption: 9.56W@24VDC

Working environment

Working temperature: -40 ~ 75°C

Storage temperature: -40 ~ 85°C

Relative Humidity: 5%~95 % (no condensation)

Mechanical Structure

Shell: IP40 protect grade, metal shell

Installation: DIN-Rail mounts

Weight: 960g

Size (W×H×D): 70mm×160mm×130mm

Industry Standard

EMI: FCC Part 15, CISPR (EN55022) class A

EMS: IEC 61000-4-2 (ESD), Level 4

IEC 61000-4-4 (EFT), Level 4

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

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Certification

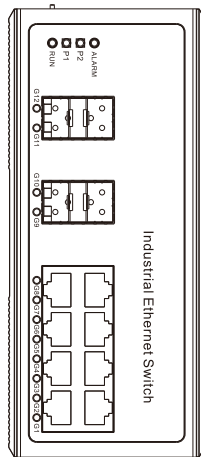
CE, FCC, RoHS, UL508 (Pending)

Warranty: 5 years

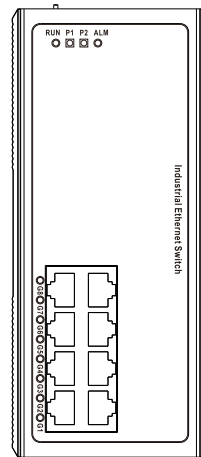
Ordering Information

Available Models	Port Interface		Power Supply
Standard Models	1000Base-X	10/100/1000Base-T(X)	12~48VDC
IES7112G-8GT	0	8	
IES7112G-4GS	4	8	

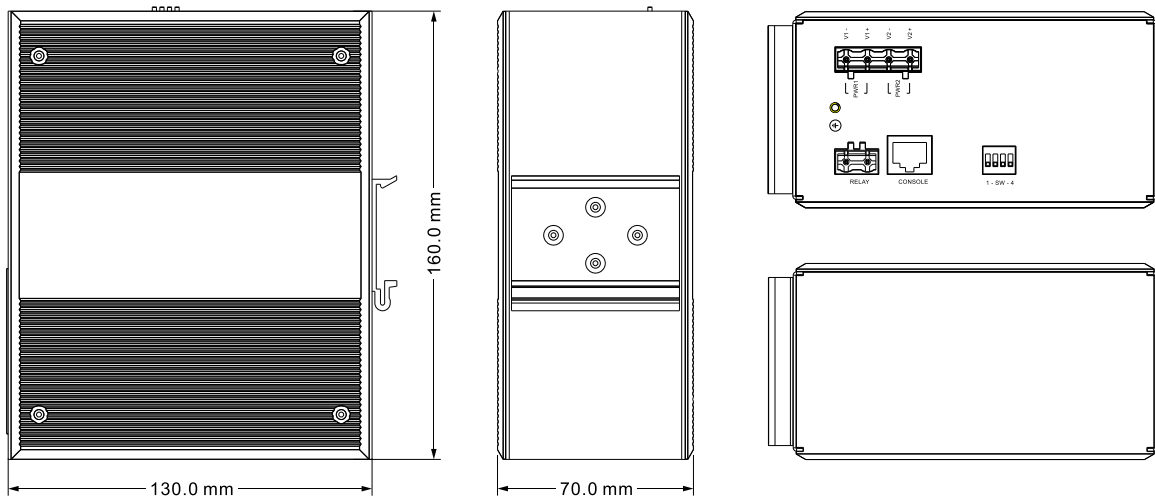
Dimension (Unit: mm)



IES7112G-4GS



IES7112G-8GT



Packing List

1. Industrial Ethernet Switch (plus terminal block) x 1
2. User manual x 1
3. Documentation and software CD x 1
4. Certificate of quality x 1
5. Warranty card x 1
6. DIN-Rail mounting kit x 1