

# IES7120-4GS

16-port 10/100M Ethernet+4-port Gigabit (SFP slot)

**Managed Industrial Ethernet Switch**

## Features

- Support IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE 802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W
- SW-Ring ring network patent technology (Fault recovery time<20ms)
- Support RSTP, way exchange time<50ms
- Support WEB configuration
- Store and Forward switching process type
- Support configuration file up and download
- Support static and dynamic IGMP
- Support Port based VLAN and IEEE 802.1Q VLAN
- Support flow control, Broadcast storm suppression
- Support 8K MAC address
- Support 12.8Gbps backboard bandwidth
- Support redundancy power supply(12~48VDC)
- Support 1 channel relay alarm output
- Operating temperature range from -40 to 75°C
- DIN rail mounted
- Metal shell, IP40 protection class



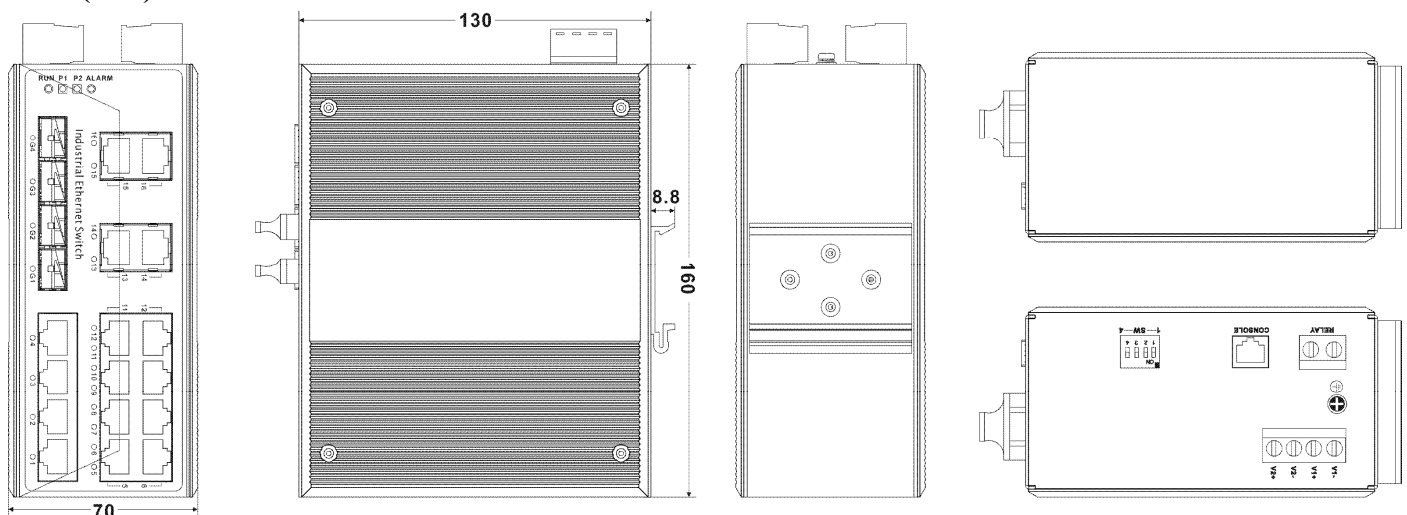
## Introduction

IES7120-4GS-P (12/48VDC) is an industrial grade, managed and redundancy Ethernet switch. It provided 16 Ethernet ports and 4 Gigabit (SFP slot) ports. SW-Ring™ is an arithmetic designed as a rapid redundancy network. It provided recover technology for fault of rapid redundant network, the recovery time<20ms. Product accorded

to CE, FCC standard and Industry grade 4 design requirement, support 2 redundant power input and 1 channel relay alarm output, and -40~75°C working temperature, can meet all kinds of Industrial environment requirement. It can use in power, water conservancy, transportation area etc.

## Dimension

Unit (mm)





## Specification

### Technology

Standard: Support IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W

Protocol: ARP、ICMP、TCP、DHCP、HTTP、Telnet、SW-Ring、RSTP、SNMP

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

### Function

Switch function: SW-Ring, QOS, 802.1QVLAN, RSTP, 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

100M maximum filter speed: 148810pps

1000M maximum filter speed: 1488100pps

Transmit mode: store and forward

System exchange bandwidth: 12.8G

MAC address table: 8K

Memory: 4M

### Interface

Electric port: 10Base-T/100Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect

1000M fiber port: 1000Base-FX (SFP port)

Console port: debug serial port carry out CLI command

Alarm port: 2 bits 7.62mm terminal block  
1 channel relay alarm output

### Transfer distance:

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

Multi-mode: 1310nm, 2/5Km

Single-mode: 1310nm, 20/40/60Km  
1550nm, 80/100/120Km

### LED indicator:

Run indicator: Run

Interface indicator: Link (1~16/G1~G4)

Power supply indicator: P1, P2

Alarm indicator: Alarm

### Power supply

Input Voltage: 24VDC (12~48VDC)

Input method: 4 bits 7.62mm terminal block

Overload current protect: 4.0A (DC)

Support DC dual power supply redundancy

### Consumption

No-load consumption: 6.48W@24VDC

Full-load consumption: 11.93W@24VDC

### Working environment:

Working temperature: -40~75℃

Storage temperature: -40~85℃

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

### Mechanical Structure:

Shell: IP40 protect grade, metal shell

Installation: DIN rail and wall mount

Size (W×H×D): 160mm×70mm×130mm

### Industry Standard:

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

EMS: EN61000-4-2 (ESD) , Level 4

EN61000-4-3 (RS) , Level 3

EN61000-4-4 (EFT) , Level 4

EN61000-4-5 (Surge) , Level 4

EN61000-4-6 (CS) , Level 3

EN61000-4-8, Level 5

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

## Packing List

1. Ethernet switch IES7120-4GS (plus terminal block)×1



2. User manual x 1
3. CD x 1
4. Certificate of quality x 1
5. Warranty card x 1