

# IT-ES7120-IM-4GS-4F 12 Ports 10/100M Ethernet + 4 Ports 100Base-FX(SC/ST/FC) +

## 4 Ports 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 GMRP, IGMP snooping and static Multicast.
- Support Port based VLAN and IEEE 802.1Q VLAN.
- Support flow control, Broadcast storm suppression.
- Support SNMP and IEEE802.1X authentication.
- 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.



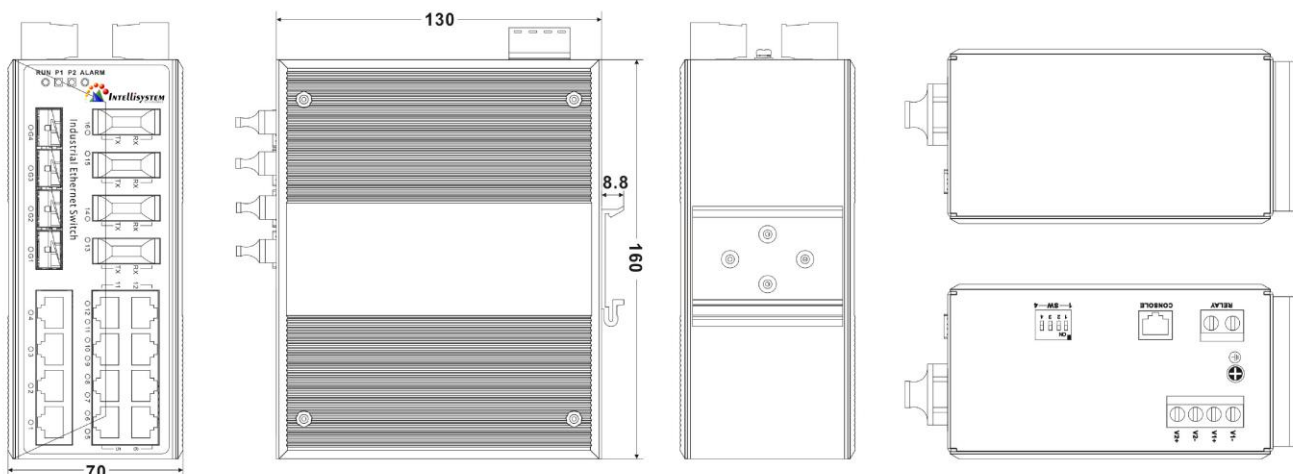
### Introduction

IT-ES7120-IM-4GS-4F is an industrial grade, managed and redundancy Ethernet switch. It provided 12 Ethernet ports, 4 Fiber 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.

### Dimensions

#### Unit (mm)



## Specifications

### 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

### Functions

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 attributes

100M forward speed: 148810pps  
1000M forward speed: 1488100pps  
Transmit mode: store and forward  
System exchange bandwidth: 12.8G  
MAC address table: 8K  
Memory: 4M

### Interfaces

Electric port: 10Base-T/100Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect  
100M optic fiber port: 100Base-FX, SC/ST/FC connector, support single mode (20/40/60/80Km optional), multi mode (2Km), wavelength: 1310nm, 1550nm  
1000M fiber port: 1000Base-FX (SFP port)  
Console port: debug serial port carry out CLI command  
Alarm port: 2 bit 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 indicators

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  
Support DC dual power supply redundancy  
Overload current protect: 4.0A

### Consumption

No-load consumption: 9.05W @24VDC  
Full-load consumption: 14.35W @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 mount  
Size (W×H×D): 70mm×160mm×130mm

### Industry Standards

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 2  
EN61000-4-6 (CS), Level 3  
EN61000-4-8, Level 4  
Shock: IEC 60068-2-27  
Free fall: IEC 60068-2-32  
Vibration: IEC 60068-2-6

### Certifications

CE, FCC, RoHS, UL508 (Pending)

**Warranty:** 5 years

## Ordering Informations

**IT-ES7120-IM-4GS-4F (M):** 12 ports 10/100Base-T(X) + 4 ports 100Base-FX Multi-mode SC/ST/FC + 4 ports gigabit (SFP slot), 12~48VDC  
**IT-ES7120-IM-4GS-4F (S):** 12 ports 10/100Base-T(X) + 4 ports 100Base-FX Single-mode SC/ST/FC +4 ports gigabit (SFP slot), 12~48VDC  
**IT-ES7120-IM-4GS-4F (SS):** 12 ports 10/100Base-T(X) + 4 ports 100Base-FX single-mode, single fiber SC/ST/FC + 4 ports gigabit (SFP slot), 12~48VDC

## Packing List

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1. Ethernet switch IT-ES7120-IM-4GS-4F (plus terminal block) ×1
2. User manual ×1
3. CD ×1
4. Certificate of quality ×1
5. Warranty card ×1