

# IT-ES716-IM-2GS

**4-ports 10/100M Ethernet + 2-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, SNMP and Telnet configuration.
- Store and forward switching process type.
- Support port Trunk and port mirror.
- Support configuration file up and download.
- Support IGMP snooping and static Multicast.
- Support Port based VLAN and IEEE 802.1Q VLAN.
- Support flow control, Broadcast storm suppression.
- 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.



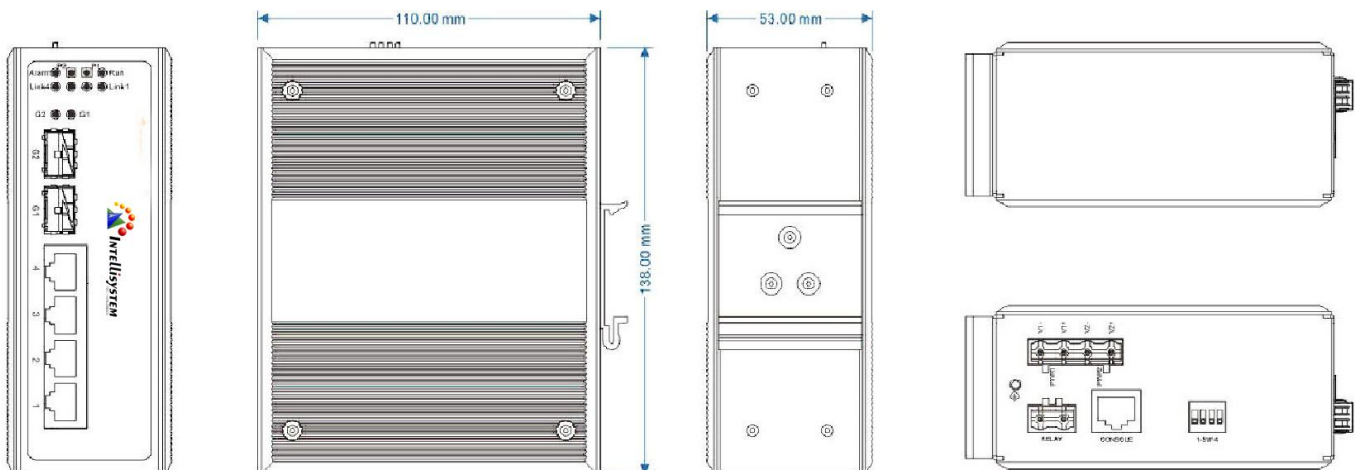
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## Introduction

IT-ES716-IM-2GS (12/48VDC) is an industrial grade, managed and redundancy Ethernet switch. It provided 4 Ethernet ports and 2 Gigabit (SFP) 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: 5.6G  
MAC address table: 8K  
Memory: 1M

### Interfaces

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 bit terminal block  
1 channel relay alarm output  
Load ability: 1A@24VDC

### 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 (1~4/G1~G2)  
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: 2.2W@24VDC  
Full-load consumption: 5.5W@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): 53mm×138mm×110mm

### 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  
EN61000-4-6 (CS), Level 3  
EN61000-4-8, Level 5  
Shock: IEC 60068-2-27  
Free fall: IEC 60068-2-32  
Vibration: IEC 60068-2-6

### Certifications

CE, FCC, RoHS, UL508 (Pending)

**Warranty:** 5 years

## Packing List

1. Ethernet switch IT-ES716-IM-2GS (plus terminal block) ×1
2. User manual ×1
3. CD ×1
4. Certificate of quality ×1
5. Warranty card ×1