

## IT-ES5000-IM-4GS-24T Series

24-Port Fast Ethernet + 4-Port Gigabit SFP slots

Managed Industrial Ethernet Switch

### Features

- Support IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1W/D, IEEE802.3ad, IEEE802.1AB
- Support 4-port Gigabit SFP slots
- Up to 24-port 100Base-FX or 10/100Base-T(X) Ethernet option
- Support 3 channel 4-port Fast Ethernet copper ports and optical fiber port optional module
- SW-Ring ring network patent technology (Fault recovery time<20ms )
- Support STP/RSTP to enhance network stability
- Support static multicast, IGMP Snooping and GMRP
- Support Port based VLAN and IEEE 802.1Q VLAN
- Support QoS absolutely and opposite priority
- Support bandwidth management and storm suppression
- Support WEB, SNMP, LLDP and Telnet configuration
- Support port mirror and port trunking
- Support configuration file up and download
- Support redundancy AC power supply(220VAC)
- Support 1 channel relay alarm output
- Industrial grade 4 design, -40-85°C work temperature
- IP40 protection grade, DIN-Rail mounting



### Introduction

IT-ES5000-IM-4GS-24T series are industrial grade, managed and redundancy Ethernet switch. The series support 3 channel 4-port Fast Ethernet (copper ports and optical fiber port optional) modules.

IT-ES5000-IM-4GS-24T-4GS-8T-16F supports 16-port 100 Base-FX, 4-port Gigabit SFP and 8-port 100 Base-TX. They provide some kinds of advanced network managed function, such as: SW-Ring redundancy ring network, STP/RSTP, VLAN, Trunking, SNMP, LLDP, SMTP, Quality of Service, Speed control, port mirroring, fault alarm and firmware upgrade online. SW-Ring can bring your Ethernet

to intelligent redundancy. Standard Industry design, can satisfy every requirement of the industrial scene. All components used industry grade, which makes product high reliability. They provide wide voltage power supply input.

The switches accord to CE, FCC standard and Industry grade 4 design requirement, support 2 channel AC power input and 1 channel relay alarm output, and -40 ~ 85 °C working temperature, can meet all kinds of industrial environment requirement and provide the solution to the economy.

### Specification

#### Technology

Standard: IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1W/D, IEEE802.3ad, IEEE802.1AB

Protocol: ARP, ICMP, TCP, DHCP, DNS, HTTP, Telnet, SW-Ring, RSTP, LLDP, LACP, IGMP, GMRP, SNMP, SMTP, SNTP

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

#### Function

Switch function: SW-Ring, QOS, 802.1QVLAN, RSTP, SMTP, LLDP, LACP, 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: 12.8Gbps  
 MAC address table: 8K  
 Memory: 3Mbit

**Interface**

Ethernet RJ45 port: 10Base-T/100Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect  
 100M Fiber port: 100Base-FX, SC/FC/ST connector optional  
 Gigabit SFP port: 1000Base-X, SFP slot  
 Console port: RS-232 (RJ45 connector)  
 Alarm port: 2-pin terminal block  
 1 channel relay alarm output  
 Current load capacity 1A@30VDC

**Transfer distance**

Twisted cable: 100M (standard CAT5e/CAT6 cable)  
 Multi-mode: 1310nm, 2Km  
 Single-mode: 1310nm, 20/40/60Km  
 1550nm, 80/100/120Km

**LED indicator**

Run indicator: RUN  
 Power supply indicator: PWR1, PWR2  
 Alarm indicator: ALM  
 Interface indicator: Link (1~24/G1~G4)

**Power supply**

Input Voltage: 220VAC (90~264 VAC)

48 VDC (36~72 VDC)

Type of input: 3 bits terminal block  
 AC support redundant power supply

**Consumption**

No-load consumption: 19.4W@220VAC  
 Full-load consumption: 21.9W@220VAC

**Working environment**

Working temperature: -40~85°C  
 Storage temperature: -40~85°C  
 Relative Humidity: 5%~95% (no condensation)

**Mechanical Structure**

Shell: IP40 protect grade, metal shell  
 Installation: 19" 1U rack mounting  
 Weight: 4.5kg  
 Size (LxWxH): 441.6mmx290mmx44.45mm

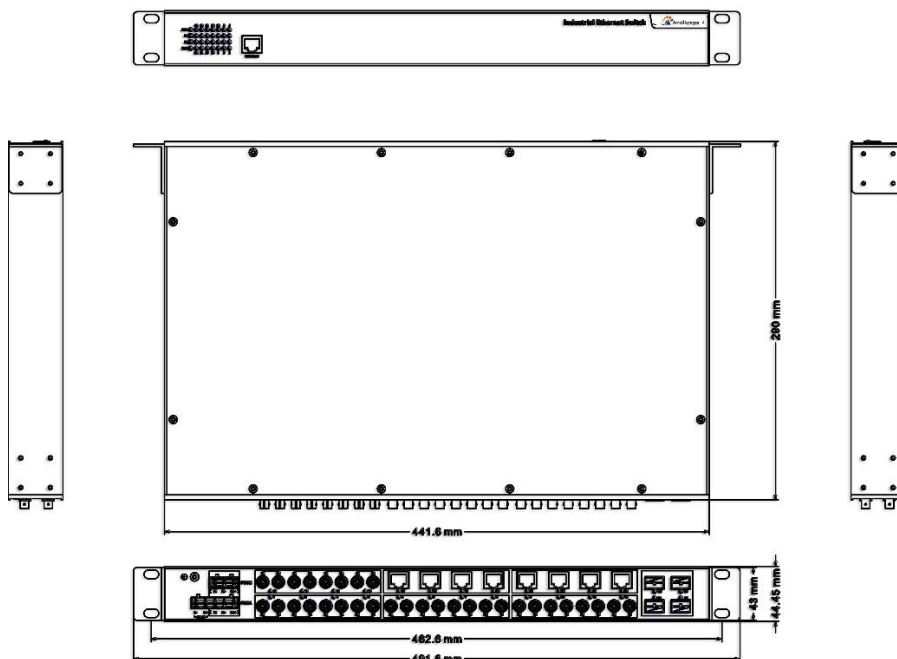
**Industry Standard**

EMI: FCC Part 15, CISPR (EN55022) class A  
 EMS: EN61000-4-2 (ESD), Level 4  
 EN61000-4-4 (EFT), Level 4  
 EN61000-4-5 (Surge), Level 4  
 EN61000-4-6 (CS), Level 3  
 EN61000-4-8, Level 5  
 EN61000-4-10, Level 3  
 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

**Dimension (Unit: mm)**


## Packing List

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

## Ordering Information

Available Models	Port Interface			Power Supply
Standard Models	1000Base-SFP	10/100Base-T(X)	100Base-FX	48VDC(36~72VDC) OR
IT-ES5000-IM-4GS-24T	4	8	16	220VAC(90~264 VAC)