

# TS-IMF4G24-P

4 Fiber to 24UTP

10/100/1000Mbps Managed Industrial POE Fiber Switch



## Key Features

- ✚ Support power on POE IP cameras through the wireless access point (AP) of 5 categories of Ethernet cable.
- ✚ IEEE 802.3af power on to 1 ~ 24 RJ45 ports
- ✚ 24 x 10/100/1000Mbps Auto-sensing TX RJ45 ports ( Port 23 and 24 are COMBO ports)
- ✚ 4 x 1000Mbps SFP fiber ports( Port FX3 and FX4 are COMBO ports)
- ✚ Support cable diagnosis and can locate the fault point
- ✚ Support IEEE802.3az EEE (Energy Efficient Ethernet) Management, optimize power consumption
- ✚ Support STP, RSTP, MSTP, ITU-T G.8032 Ethernet Protection Ring(EPR)
- ✚ Support Qos, transport classification Qos, Cos, bandwidth control (input/output direction), storm suppression ,differentiated services
- ✚ Support IEEE802.1q VLAN,VLAN port ,based Mac VLAN,IP subnet VLAN, Protocol VLAN,VLAN convert, MVR
- ✚ Support dynamic IEEE802.3ad LACP link aggregation, static link aggregation
- ✚ Support IGMP/MLD snooping V1/V2/V3, IGMP filtrating/ modulating, IGMP searching
- ✚ Support IGMP agent report, MLD snooping
- ✚ Safety: based on port and Mac IEEE802.1X, RADIUS, ACL, TACACS+,HTTP/HTTPS, SSL/SSH v2
- ✚ Support Cisco® like CLI, Web management, SNMP v1/v2c/v3, Telnet
- ✚ Support software upgrade via TFTP and HTTP, firmware redundancy prevents upgrade failing
- ✚ Support DHCP client/Relay/Snooping/Snooping option 82/Relay option 82
- ✚ Support RMON, MIB II, mirror image, event log, DNS, NTP/SNTP, IEEE802.1ab LLDP
- ✚ Support IPV6 Telnet server /ICMP v6, SNMP, HTTP, SSH/SSL, NTP/SNTP,TFTP, QoS, ACL.

## Introduction

TS-IMF4G24-P series is the 10/100/1000 Mbps industrial POE fiber switch, comply with IEEE802.3af, power on POE IP cameras through the Ethernet cable, operating temperature -40 °C to + 85°C, support wide voltage dual power input, meet IP30 protection degree and EMC industrial grade requirements, support many managed functions, include RSTP IGMP, VLAN, Qos, IPV6, Loop protection, ERPS and so on. pass through dangerous environmental certification and comply with FCC and CE standards. The reliable industrial grade design could ensure continuous and stable operation of the automation system.

## Specification

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name           | 10/100/1000Mbps managed Industrial POE Fiber Switch (4F+24TP)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Model No.              | TS-IMF4G24-P                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Port                   | 4 x 1000Mbps SFP ports (Port FX3 and FX4 are COMBO port)<br>24x10/100/1000M UTP RJ45( Port 23 and 24 are COMBO ports)                                                                                                                                                                                                                                                                                                                                                 |
| Standard               | IEEE 802.3, IEEE802.3U, IEEE802.3ab, IEEE802.3z, IEEE802.1d STP, IEEE802.1w RSTP, IEEE802.1s MSTP, ITU-T G.8023 EPR/Y.1344, IEEE802.1Q, IEEE802.1X, IEEE802.3ad, IEEE802.3x, IEEE802.3af, IEEE802.3at, IEEE802.1ad, IEEE802.1p, IEEE802.1ab, IEEE802.3az                                                                                                                                                                                                              |
| VLAN ID                | 4096                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Jumbo Frame            | 9.6KB                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MAC Address Table Size | 8K                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Poe Standard           | IEEE802.3af, total MAX power is 340W                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Switching features     | Transmission mode : storage and forward<br>System bandwidth : 48Gbps (non-traffic jam)                                                                                                                                                                                                                                                                                                                                                                                |
| Network media          | 10BASE-T: CAT3, CAT4, CAT5 un-shielded twisted pair(≤100m)<br>100/1000BASE-TX: CAT5 or above shielded twisted pair(≤100m)<br>SFP port, transmission distance: 20Km, 40Km, 60Km, 80Km, 100Km                                                                                                                                                                                                                                                                           |
| LEDs                   | Power, network, fiber                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Power supply           | Input voltage : DC48V<br>Non-polar power input : support                                                                                                                                                                                                                                                                                                                                                                                                              |
| Environment            | Working temperature : -40°~ 85°C<br>Working humidity : 5%~95%, non-condensing                                                                                                                                                                                                                                                                                                                                                                                         |
| Industry Standards     | EMI : FCC Part 15 Subpart B Class A, EN 55022 Class A, EN61000-6-4- Emission for industrial environment<br>EMS : EN61000-6-2-Immunity for industrial environment, EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 3, EN 61000-4-5 (Surge) Level 3, EN 61000-4-6 (CS) Level 3, EN 61000-4-8<br>Traffic Control : NEMA-TS2, Vibration : IEC 60068-2-6<br>Freefall : IEC 60068-2-32, Shock : IEC 60068-2-27<br>Rail Traffic : EN 50121-4 |
| Mechanical information | Safety class : IP30<br>Dimension : 483x 275 x 44.5mm                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Warranty               | Replacement within 1year; 5 years repairing                                                                                                                                                                                                                                                                                                                                                                                                                           |

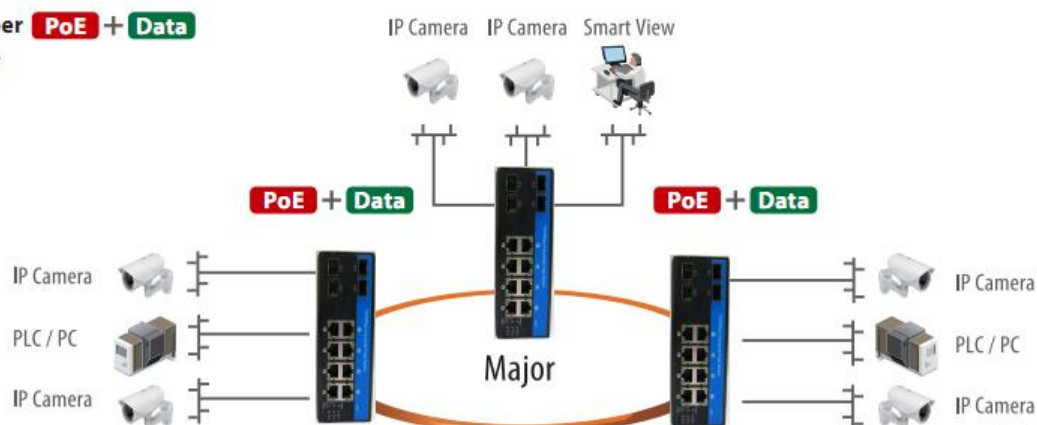
### Dimension



### Application

## Application & ERPS (Ethernet Ring Protection Switching) topology

### Single-Ring Topology



### Multi-Ring Topology

