

### Key Features

- Support power on POE IP cameras through the wireless access point (AP) of 5 categories of Ethernet cable.
- IEEE 802.3af/at power on to 1 ~ 4 RJ45 ports
- 4 x 10/100/1000Mbps Auto-sensing RJ45 ports
- 2 x 1000Mbps SFP fiber port
- 6KV Ethernet surge protection, adapt to a harsh outdoor environment
- Support Auto MDI/MDIX
- Flow control mode: full duplex with IEEE 802.3x standard,
- half-duplex with Back pressure standard
- IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX compliant
- A store-and-forward switching mechanism
- Operating environment temperature: -40 ° ~75 ° c
- Support cable diagnosis and can locate the fault point
- Support IEEE802.3az EEE (Energy Efficient Ethernet) Management, optimize power consumption
- Support RSTP ring protocol
- Support SNMPv1, v2Web management, support user login password protection and other device configuration methods
- Support 9k Jumbo frame, MAC restriction
- Support VLAN: support port VLAN and 802.1Q Tag
- Support QoS priority, DSCP remapping, Priority and Queue Mapping, Port Priority, Q queue weight
- Support IGMP port bandwidth control, broadcast storm suppression
- Support Port Aggregation, Port Mirroring, Port isolation, Bandwidth control
- Support MIB library opening to meet the requirements of operation and maintenance
- Support WEB, CLI and SNMP management methods
- Reset: Support restart and restore default configuration



### Introduction

TS-IMF2F4-P series is the 10/100/1000 Mbps industrial fiber switch, operating temperature -40 °C to +75 °C, support wide voltage dual power input and powered by other POE devices, support web management, meet IP4 protection degree and EMC industrial grade requirements, DIN rail installation, 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 Fiber Switch (2F+4TP)
Model No.	TS-IMF2F4-P
Port	2 x 1000Mbps SFP port (support both 100M and 1000M SFP modules) SM: 1310nm/1550nm,20Km ;1490nm/1550nm, 40~120Km; MM: 1310nm, 2Km; 4x 10/100/1000M UTP RJ45 (Support MDI/MDIX auto-sensing)
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x Flow Control, IEEE 802.1Q VLAN Tagging, IEEE 802.1p CoS, IEEE 802.1X Authentication, IEEE 802.3ad Link Aggregation Protocol: IGMPv1/v2, SNMPv1/v2 DHCP Client TFTP, HTTP, HTTPS, SNMP Inform, DDM, Ping/tracert detection, MIB library: MIB-II, Ethernet-Like MIB, IEEE802.3af, IEEE802.3at
Managed	<ul style="list-style-type: none"> <li>☆ Jumbo frame processing: 9k</li> <li>☆ Report buffer: 64K</li> <li>☆ Broadcast storm suppression: support broadcast, multicast, unknown unicast suppression</li> <li>☆ Flow control: Adopt IEEE802.3x negotiation flow control, CAR function, speed limit step size is 1Kb</li> <li>☆ RSTP ring protocol</li> <li>☆ Multicast protocol: IGMP Snooping</li> <li>☆ Port management: support port isolation and port aggregation</li> <li>☆ DHCP management: support DHCP Snooping, option 82</li> <li>☆ QoS mechanism: 802.1p; support port default priority marking, each port has at least 4 queues with different priorities</li> <li>☆ Security: login access authentication, login password modification, MAC address filtering, support dynamic or static MAC address learning / support ARP learning function off and on, ARP message speed limit / support IP+MAC+ port manual and automatic scanning binding Set IEEE 802.1x (Port based, MAC based), can transparently transmit 802.1x data packets/port loop detection</li> </ul>
Switching Features	Exchange capacity: 12Gbps                      Packet forwarding rate: 14.8Mpps MAC address table: 2K                              Swap delay: <5 μ s Transmission method: store and forward
Power supply	Input voltage: DC 48-52V; Support POEaf/at(15.4W/30W) Reverse connection: support Overload protection: support Redundant protection: support
Environment	Working Temp: -40°~ 75°C ; Storage Temp: -40°~ 85°C; Working humidity: 5%~95%, non-condensing
Industry Standards	EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A EMS: 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 Traffic Control: NEMA-TS2              Vibration: IEC 60068-2-6 Freefall: IEC 60068-2-32              Shock: IEC 60068-2-27              Rail Traffic: EN 50121-4
Mechanical information	Shell: Corrugated metal shell; Safety class: IP40 Dimension: 158 x 114.8x 60mm Mounting method: Din-rail mounting
Warranty	Replacement within 1year; 5 years repairing

## Application

