

IPS-2SF60004M

6-port (Gigabit 2 Optical 4 Electric) Managed Industrial PoE Switch



Product Features

- ◆ Provide 4 * 10/100/1000Base PoE electrical ports and 2 * 1000Base-X optical ports
- ◆ WEB interface, dial switch rapid configuration
- ◆ IEEE802.3af(15.4W)/IEEE802.3at(30W)
- ◆ Full duplex or half duplex mode with automatic negotiation capability
- ◆ Capable of operating within a wide temperature range of -40 °C to 85 °C
- ◆ IP40 protection level, fanless design, natural cooling
- ◆ Aluminum alloy metal shell, DIN rail installation or wall mounting (optional)
- ◆ Dual power supply DC48-57V, 6-core 5.08mm spacing terminal block
- ◆ Anti static electricity (ESD) air $\pm 15\text{KV}$ contact $\pm 8\text{KV}$
- ◆ Network port lightning protection: common mode $\pm 4\text{kV}$, differential mode $\pm 2\text{kV}$

Product Overview

IPS-2SF60004M network management type Gigabit 2 optical 4 electrical industrial Ethernet PoE switch, supporting 4 10/100/1000Base-T PoE ports and 2 1000Base-X optical ports. The product complies with FCC, CE, and ROHS standards. This industrial Ethernet PoE switch has a working temperature range of -40 °C to 85 °C and can adapt to harsh outdoor cabinet environments. With rail installation characteristics, IP40 protection level, and LED indicator lights, it becomes a plug and play industrial grade device. In short, industrial Ethernet PoE switches provide reliable and efficient network solutions for various industrial environments with their excellent performance and design. With the rapid development of industrial scenarios such as intelligent manufacturing, smart mining, and smart transportation, the application of industrial Ethernet switches will become increasingly widespread, contributing significantly to the implementation of Industry 4.0.

Technical Parameter

RJ45 port	4 * 10/100/1000Base-T (automatic detection) Full/Half Duplex MDI/MDI-X (Adaptive) Transmission distance: ≤ 100 meters
Management Port	1 * console (supports command-line CLI)
Optical port characteristics	2*1000Base-X Multimode: 850nm (transmission distance 0-550M), 50 μ m/125 μ m&62.5 μ m/125 μ m Single mode: 1310nm (transmission distance 3-40KM), 1550nm (transmission distance 0-120KM), 9.5 μ m/125 μ m
network protocol	IEEE802.3 - CSMA/CD; IEEE802.3i - 10Base-T; IEEE802.3u - 100Base-TX/FX; IEEE802.3x - Flow Control; IEEE802.3z - 1000Base-X; IEEE802.3ab - 1000Base-T;
work environment	Working temperature: -40~85 °C (-40~185 ° F) Storage temperature: -40~85 °C (-40~185 ° F) Relative humidity: 5% to 95% (no condensation)
power interface	Input voltage: DC48-57V (PoE) Connection terminal: 6-core 5.08mm spacing wiring terminal Support dual power redundancy Support reverse protection
PoE parameters	PoE standard: Meets IEEE802.3af/IEEE802.3at Single port maximum: 15.4W (IEEE 802.3af) Single port maximum: 30W (IEEE 802.3at) PoE compatibility: IEEE 802.3af/at/adaptive PoE port output voltage: DC 48-57V PoE power supply core: 1/2+, 3/6-;
Switch properties	Backplane bandwidth: 12Gbps MAC Address: 2K Chip buffer Size: 12K Delay time:<3 μ s Exchange method: store forward Power consumption of the whole machine:<6W (non PoE)
mechanical properties	Shell: IP40 protection level, aluminum alloy metal shell Installation: DIN rail type, wall mounted installation Heat dissipation method: natural cooling, fanless Machine weight: 0.85kg Whole machine including packaging weight: 0.95Kg Product size: 116 * 85 * 33mm (L * W * H)
LED indicators	Power indicator light: Power (red light) Light port indicator light: 5-6 (green light)

	Network port indicator light: yellow light (Link/ACT) green light (PoE) Status indicator light: Status
Restart button	Reset
Mean time between failures	300000 hours
warranty	5 years
Industry standards	EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A EMS : IEC(EN)61000-4-2(ESD): ±8kV(contact), ±15kV(air) IEC(EN)61000-4-3(RS): 10V/m(80 ~ 1000MHz) IEC(EN)61000-4-4(EFT):PowerPort:±4kV; Data Port: ±2kV IEC(EN)61000-4-5(Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6(CS): 10V(150kHz ~ 80MHz) IEC(EN)61000-4-16(CM EMI) : 30V cont. 300V,1s IEC 60068-2-27 (Shock) IEC 60068-2-32 (Freefall) IEC 60068-2-6 (Vibration)

software parameters

network topology	Ring topology support Star topology support Bus topology support Tree Topology support Hybrid topology support
PoE support (optional)	PoE ports 1-4 ports PoE Protocol 802.3af, 802.3at PoE Pin Assignment 12+, 36- PoE Management mode (PoE Management) support
management function	Support the web page management configuration hardware one-button recovery of factory settings Support the 802.1Q VLAN of 4K range QoS (IEEE 802.1p and DSCP) improves data transfer certain Port mirroring feature assists in online troubleshooting and allows for data analysis and monitoring Port aggregation increases bandwidth and enhances the reliability of network connection Spanning Tree Protocol STP/RSTP ring redundancy Port loop detection reduces the impact of access loop on the entire network STP/RSTP, 802.1Q VLAN, QoS function,, port aggregation, port mirroring, loop detection Support for port configuration, jumbo frame mode, port statistics, speed dial configuration Support for WEB, SNMP and other access methods
Device Diagnostics	RAM log support Flash log support Port mirroring supports 1:1 or 1: M

	Ping support Traceroute support Electrical port testing support Optical module information support
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Mechanical dimensions (in millimeters)

