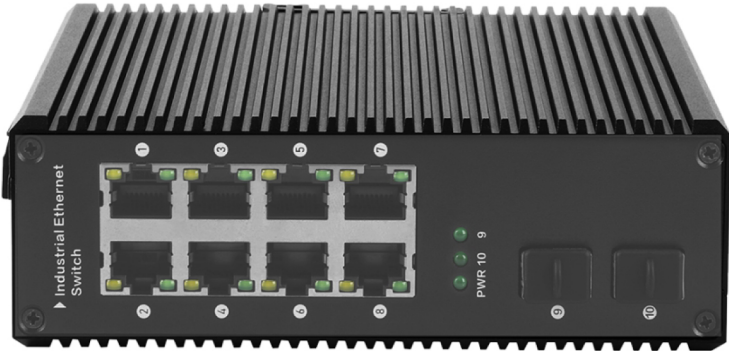


INDUSTRIAL SWITCH MANAGEMENT 8 PORTS POE GIGABIT WITH 2 SFP SLOT



SI-8POE-2SFP-I

SI-8POE-2SFP-I full Gigabit Layer 2 managed PoE switch, with 8 Gigabit electrical ports + 2 Gigabit uplink SFP optical ports, 1-8 ports support 802.3af/at PoE, single port power up to 30W. Automatically identify compatible devices for power supply, suitable for industrial wireless AP, network camera, IP phone, PLC, sensor, etc., meet high-density PoE requirements, suitable for intelligent transportation, rail, electricity, mining, petroleum, shipping, metallurgy, green energy and other industrial scenarios.

SI-8POE-2SFP-I supports L2+ management function, IPV4 static routing, comprehensive security protection, ACL/QoS strategy, VLAN division. Support STP/RSTP/MSTP (<50ms) and ERPS (<20ms) protocols, fast link backup, to ensure communication continuity. Configure PoE, traffic, VLAN, QoS, etc. through Web, CLI, SNMP, Telnet, etc. Aluminum alloy shell, strong heat dissipation, stable operation at outdoor high temperature, 6KV lightning protection, dual power input, guide rail installation, it is an ideal choice for building ring network and multi-service access.

Provider Mode Ports		
Fixed Port	Downlink Port	8*10/100/1000Base-T RJ45
	Uplink Port	2*100/1000Base-X SFP
	PoE Port	1-8 Ports support af/at standard PoE power supply, port 1 supports 250m ultra-long-distance transmission distance
	Other Port	2 sets of V+, V- redundant DC power supply interfaces (6P Phoenix terminal) 1 console control port 1 set of power failure alarm switch interface (FAULT)
Ethernet Port		10/100/1000M auto-sensing, full/half duplex

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	MDI/MDI-X auto-sensing
Twisted-pair Transmission	10BASE-T: Cat3, 4, 5 UTP (\leq 250 meter)
	100BASE-TX: Cat5 or later UTP (\leq 100 meter)
	1000BASE-T: Cat5e or later UTP (\leq 100 meter)
Optical Port	Gigabit SFP port, no optical module is provided by default, need to be purchased separately (optional SM/MM, single fiber/dual fiber optical module, LC/SC)
Optical Fiber Cable	MM: 850nm/0~550M, 50 μ m/125 μ m&62.5 μ m/125 μ m SM: 1310nm/0~40KM, 1550nm/0~120KM. 9.5 μ m/125 μ m
Switch Chip Parameters	
Network Management Type	L2 Network Management
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;
	IEEE802.3u 100Base-TX;
	IEEE802.3x Flow Control;
	IEEE802.3ab 1000Base-T;
	IEEE802.3z 1000Base-X;
	IEEE 802.3ad port trunk with LACP
	IEEE 802.1D Spanning Tree protocol
	IEEE 802.1w Rapid Spanning Tree protocol
	IEEE 802.1s Multiple Spanning Tree protocol
	IEEE 802.1p Class of service
	IEEE 802.1Q VLAN tagging
	IEEE 802.1x Port Authentication Network Control
	IEEE 802.1ab LLDP
	IEEE 802.3af DTE Power via MDI;
	IEEE 802.3at DTE Power via MDI;
CPU	500MHz
DRAM	1Gb
FLASH	128Mb
Forwarding Mode	Store and forward (full line speed)
Backplane Bandwidth	20Gbps (non-blocking)
Packet Forwarding Rate@64byte	14.88Mpps
MAC Address Table	8K
Packet Forwarding Cache	4Mb
Jumbo Frames	10KB
LED Indicator	Power indicator: PWR (green); System indicator: RUN; Network port indicator: 1-8 (green) Power supply (yellow); SFP indicator: 9-10 (green)
MTBF	Meet industrial-grade operation standards, with an average failure-free time of more than 300,000 hours

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Network Management Specifications

Ports	Support IEEE802.3x flow control (full duplex)
	Support broadcast storm suppression based on port rate
	Supports speed limiting of inbound and outbound message traffic, with a minimum granularity of 64Kbps
	Support port temperature protection setting
	Support port EEE Green Ethernet energy saving configuration

Layer 3 Functions	Support L2+ network management function, support IPV4/IPV6 dual stack management
	Supports L3 routing and forwarding, and supports communication between different network segments and different VLANs
	Support static routing/default routing, maximum 64 entries
	Support ARP protocol, maximum entries 1024

VLAN	Support port-based VLAN (4K), IEEE802.1Q
	Support protocol-based VLAN
	Support MAC-based VLAN
	Support Voice VLAN
	Support three types of port configuration: Access, Trunk, and Hybrid
	Support QinQ configuration

Port Aggregation	Support LACP
	Support static aggregation
	Supports up to 5 aggregation groups, each of which supports up to 8 ports

Spanning Tree	Support STP (IEEE802.1d)
	Support RSTP (IEEE802.1w)
	Support MSTP (IEEE802.1s)

Industrial Ring Network Protocol	Support G.8032 (ERPS), support up to 250 rings, each ring supports up to 250 devices Ring network self-healing time is less than 20ms
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Multicast	Support IGMP Snooping v1/v2/v3, support up to 1024 multicast groups Support user quick exit mechanism
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Mirror	Supports bidirectional traffic mirroring of basic ports
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	Support Diff-Serv QoS
	Each port supports 8 output queues
	Support 802.1p/DSCP priority mapping
	Support queue scheduling mechanism (SP, WRR,

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QoS	SP+WRR)
	Support priority mark/remark
	Support flow-based packet filtering
	Supports flow-based redirection
	Support flow-based rate limiting
ACL	Supports L2~L4 packet filtering, can match the first 80 bytes of the message, and provides ACL definition based on source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc. Supports ACL distribution based on port and VLAN
Safety Specifications	Support user hierarchical management and password protection
	Support IEEE802.1X authentication/centralized MAC address authentication
	Support AAA&RADIUS authentication
	Support MAC address learning number limit
	Support MAC address black hole
	Support SSH 2.0, providing a secure encrypted channel for user login
	Support port isolation
	Support ARP message rate limit function
	Support IP source address protection
	Support ARP intrusion detection function
	Support anti-DoS attack
	Support port broadcast message suppression
	Support host data backup mechanism
	Four-way binding function of IP+MAC+VLAN+port
DHCP	Support DHCP Server
	Support DHCP Client
	Support DHCP Snooping
Management and Maintenance	Support Console/Telnet/SSH2.0 CLI command line configuration
	Support WEB network management (support HTTPS)
	Support FTP and TFTP file upload and download management
	Support SNMP V1/V2C/V3
	Support one-click restore
	Support NTP clock
	Support system work log
	Support Ping detection
	Support cable length status detection

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	Support real-time CPU utilization status viewing
	Support link layer discovery protocol LLDP
System Requirements	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Microsoft Internet Explorer 10 or higher; Category 5 and above Ethernet cables; TCP/IP, a network adapter, and a network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in the network
POE and Power Characteristics	
POE Port	Ports 1-8 support IEEE802.3af/at standard POE power supply
Power Supply Pin	Default 1/2(+), 3/6(-) 4-core power supply
Maximum PoE Power Per Port	30W, standard IEEE802.3af/at
Input Voltage and Interface	48-57VDC wide voltage; 4pin industrial Phoenix terminal, supports reverse connection protection
Power Consumption	Standby power consumption: <5W; Full load power consumption: <120W
Supporting Power Supply	No, optional industrial-grade power supply 52V/120W
Physical Specifications	
Operating Temperature/Humidity	-40~+75℃; 5%~90% RH without condensation
Storage Temperature/Humidity	-40~+85℃; 5%~95% RH without condensation
Product/Packaging Size	150*110*48mm/220*160*70mm
Net Weight/Gross Weight	<1.05kg / <1.25kg
Installation	Desktop, 35mm DIN rail installation
Product Certification and Warranty	
Lightning Protection/Protection Level	Port lightning protection: 6KV
	Protection level: IP40
	EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A
	EMC :
	IEC(EN)61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge
	IEC(EN)61000-4-3(RS) : 10V/m(80~1000MHz)
	IEC(EN)61000-4-4(EFT): Ethernet port: ±4kV CM//±2kV DM;
	IEC(EN)61000-4-5(Surge) : Ethernet port: ±4kV CM//±2kV DM;
	IEC(EN)61000-4-6(RF conduction): 3V(10kHz~150kHz),10V(150kHz~80MHz)
	IEC(EN)61000-4-16(Common mode conduction): 30V

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	cont. 300V,1s
	IEC(EN)61000-4-8
	Shock: IEC 60068-2-27
	Freefall: IEC 60068-2-32
	Vibration: IEC 60068-2-6ibration: IEC 60068-2-6
Electrostatic Discharge (ESD)	Contact discharge: 8KV; Air discharge: 15KV
Safety Certification	CE,FCC,RoHS
Warranty	1 Year
Packing List	
Equipment	1 set
Power Supply	none
Product Manual	1 serving
Warranty Card and Certificate	1 serving