SEIAOTEK

14-Port Industrial Gigabit Managed Layer 2 PoE+ Switch

ST-IND0806MPS Datasheet

Product Description

ST-IND0806MPS is a 14-Port Industrial Gigabit managed L2 PoE+ switch that provides 8 Gigabit PoE+ ports and 6 Gigabit SFP slots. It adopts fanless heat dissipation circuit and redundant power circuit design, and the switch supports EMC industry level 4 protection performance, with corrugated high-strength IP40 aluminum shell, low power consumption, Din-rail installation, -40℃-75℃ Working temperature, which can performance well in harsh environment.

ST-IND0806MPS can also support full Layer 2 network management functions: ERPS, RSTP, VLAN, QoS, SNMPv1/v2c/v3, IEEE802.1X, SSH/SSL, port mirroring, port aggregation, etc. Full redundancy, switching and safety management features make it a reliable solution for intelligent transportation, video surveillance and other harsh industrial environments.

Product Appearance

 ST-IND0806MPS	● Input voltage: DC: 48-56V ● Working temperature: -40℃ ~ +75℃ ● Shell: IP40 protection level, fanless design ● Static electricity: 8KV-15KV ● MTBF: 100000 hours

Hardware Parameters

Model	ST-IND0806MPS
Port description	8 x electrical port (PoE+) 1000BASE-T 6 x optical port (SFP) 1000BASE-X
Optical port characteristics	Interface type: SFP Speed: 1000Mbps Wavelength: Single-mode fiber: 1310nm/1550nm 　　　　　　　Multimode fiber: 850nm Core standard: Single mode: 8.3μm, 8.7μm, 9μm, 10μm 　　　　　　　　Multimode: 50μm, 62.5μm, 100μm
Electrical port characteristics	Interface type: PoE+ Rate: 10/100/1000Mbps adaptive Duplex mode: full/half duplex Connection mode: MDI/MDIX automatic flip
Protocol standard	IEEE802.3i 10 BASE-T IEEE802.3u 100 BASE-TX IEEE802.3ab 1000 BASE-T IEEE802.3z 1000 BASE-LX IEEE802.3af Power over Ethernet IEEE802.3at Power over Ethernet IEEE802.3x Flow Control IEEE802.3az EEE

Exchange performance	Backplane bandwidth: 28Gbps
	Packet forwarding rate: 20.83Mpps
	MAC address: 8K
	Packet buffer: 2Mbit
	Forwarding mode: Store and forward
Power supply	Input power: DC 48~56V (6PIN Phoenix terminal), 1*DC interface
	Power consumption: full load <6W (not including PoE)
	Dual power supply: support
	Redundant protection: support
	Reverse connection protection: support
Mechanical structure	Shell material: metal
	Protection level: IP40
	Size: 153*130*44mm (Excluding connector protruding part and DIN rail assembly size)
	Weight: 1.35Kg
	Installation method: DIN Rail installation
Surroundings	Working temperature: -40℃~75℃
	Storage temperature: -40℃~85℃
	Relative humidity: 5%~95% RH (non-condensing)
Industry Standard	EMI: CE/FCC
	EMS: IEC61000-4-2 (ESD-static)
	IEC61000-4-3 (RS-radiation anti-interference)
	IEC61000-4-4 (EFT-fast burst)
	IEC61000-4-5 (Surge-lightning protection)
	IEC61000-4-6 (CS-conducted anti-interference)
	Machinery: IEC60068-2-6 (vibration)
	IEC60068-2-27 (Shock)
	IEC60068-2-32 (free fall)
	Industry: IEC61000-6-2
	Railway: EN50155, EN50121-4
	Transportation: NEMA TS-2
Warranty	Warranty period: 3 years

Software Specifications

Hardware watchdog	Stand by
PoE management	Support PoE total power settings
	Support single port PoE power settings
	Support port PoE power supply priority design
	Support custom PoE power supply time

Loop protection	Support ERPS Ring protection Support 50ms healing looping Support BPDU protection, root protection and loopback protection
Link aggregation	Support link aggregation (LACP) Support static polymerization, dynamic aggregation Support for maximum support for 8 aggregation groups Support for source port, source MAC, destination MAC, source IP, destination IP, source IP port, destination IP port
Summing tree (STP)	Support STP (IEEE 802.1d), Support RSTP (IEEE 802.1w) Support edge port Support spanning tree BPDU packet statistics Support root bridge protection, TC protection, BPDU protection, BPDU filtering
DHCP	Support DHCP server Support DHCP Snooping Support Option82
VLAN	Support 802.1q VLAN Maximum support 4094 Support QinQ Support Mac VLAN Support GVRP protocol Support GMRP protocol Support 1: 1 and N: 1 VLAN mapping function Support three port modes: Access, Trunk, and Hybrid, Translation, QinQ Including the foundation in Qinq and flexible in QinQ
Security feature	Based on user grading management and password protection Support for port numbers, IP addresses, MAC addresses limit users access Support HTTPS, SSH V1 / V2, SSL V1 / V2 Support IP-Mac-Port-VLAN binding Support ARP protection, IP source protection, DOS protection Support DHCP Snooping, DHCP Attack Protection Support 802.1x certification, Support port security, port isolation Support port alarm
Access Control (ACL)	Supports L2 (Layer 2) ~ L4 (Layer 4) package filter function Support port mirror, port redirection, flow rate, QoS marking Support Mac ACL Support IP ACL
Service quality (QoS)	Support 8 port queues Support port priority, 802.1p priority, DSCP priority Support SP, WRR, WFQ priority scheduling algorithm

Multicast	Support fast leaving mechanism
	Support static multicast group, dynamic multicast group
	Support IGMP Snooping
	Support multicast filtering, packet statistics, unknown multicast discard
Management and maintenance	Support Web network management (HTTP, HTTPS, SSL V3, TLS V1)
	Support CLI (Telnet, SSH V1 / V2, local serial port)
	Support SNMP V1 / V2 / V3, compatible public MIBS
	Support LLDP, RMON
	Support SNTP
	Support CPU monitoring, memory monitoring
	Support system log, hierarchical warning, support remote log server
	Support port alarm
	Support HTTP software upgrade, configuring backup import
	Support TFTP upgrade

Installation Method

Before installation, confirm the operating environment of the equipment: power supply voltage, installation space, installation method, etc. Please carefully confirm the following installation requirements:

1. Check if there are cables and connectors required for installation
2. According to the reasonable configuration requirements, check whether the cable is in place (not more than 100m)
3. The product does not provide installation components, the user needs to prepare the components of the selected installation type: screws, nuts, tools, etc., to ensure reliable installation
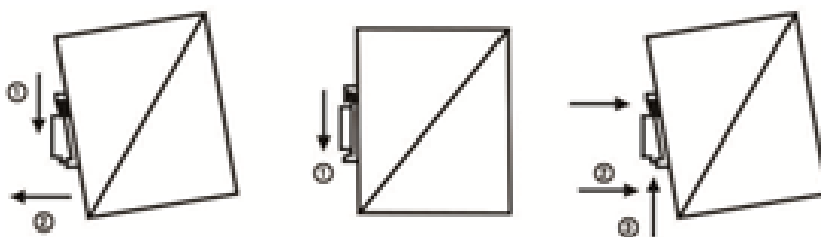
Power requirements: 48-56V DC

Environmental requirements

Working temperature: -40～75℃

Storage temperature: -40～75℃

Relative humidity: 5%～95% (no condensation)

Rail installation

Note: All pictures are schematic diagrams, and the actual product is the main product

Order Information

ST-IND0806MPS	8*10/100/1000M Self-adaptive PoE+ ports + 6*1000M SFP slots