

12-Port Industrial Gigabit Managed Layer 2 PoE+ Switch
ST-IND0804MPS Datasheet



Product Description

ST-IND0804MPS is a 12-Port Industrial Gigabit managed L2 PoE+ switch that provides 8 Gigabit PoE+ ports and 4 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°C-75°C Working temperature, which can performance well in harsh environment.

ST-IND0804MPS 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-IND0804MPS

• Input voltage: DC: 48-56V

 \bullet Working temperature: -40°C \sim +75°C

• Shell: IP40 protection level, fanless design

• Static electricity: 8KV-15KV

• MTBF: 100000 hours

Hardware Parameters

Model	ST-IND0804MPS
Port description	8 x electrical port (PoE+) 1000BASE-T 4 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: 24Gbps Packet forwarding rate: 17.86Mpps 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: 1.25Kg Installation method: DIN Rail installation
Surroundings	Working temperature: -40°C~75°C Storage temperature: -40°C~85°C 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
	Support link aggregation (LACP)
	Support static polymerization, dynamic aggregation
Link 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
	Support STP (IEEE 802.1d),
	Support RSTP (IEEE 802.1w)
Summing tree (STP)	Support edge port
	Support spanning tree BPDU packet statistics
	Support root bridge protection, TC protection, BPDU protection, BPDU filtering
	Support DHCP server
DHCP	Support DHCP Snooping
	Support Option82
	Compart 902 1 v VI ANI
	Support 802.1q VLAN
	Maximum support 4094
	Support QinQ
\/ ANI	Support Mac VLAN
VLAN	Support GMRP 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
	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
Security feature	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
	Supports L2 (Layer 2) ~ L4 (Layer 4) package filter function
Access Control (ACL)	Support port mirror, port redirection, flow rate, QoS marking
	Support Mac ACL
	Support IP ACL
	Support 8 port queues
Service quality (QoS)	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

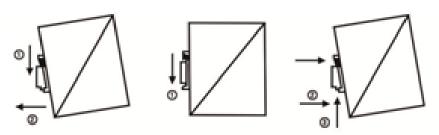
Before installation, confirm the operating environment of the equipment: power supply voltage, installation space, installation method, etc. Please carefully confirm the following installation requirements:

- 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: $-40 \sim 75^{\circ}$ C Storage temperature: $-40 \sim 75^{\circ}$ C

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-IND0804MPS	8*10/100/1000M Self-adaptive PoE+ ports + 4*1000M SFP slots