

# 6-Port Industrial Gigabit Managed Layer 2 PoE+ Switch ST-IND0402MPS Datasheet

#### **Product Description**

ST-IND0402MPS is a 6-Port Industrial Gigabit managed L2 PoE+ switch that provides 4 Gigabit Rj45 ports and 2 Gigabit SFP slots. It adopts fanless heat dissipation circuit and redundant power circuit design, 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, it can performance well in harsh environment.

ST-IND0402MPS 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-IND0402MPS	<ul> <li>Input voltage: DC: 48-56V</li> <li>Working temperature: -40°C ~ +75°C</li> <li>Shell: IP40 protection level, fanless design</li> <li>Static electricity: 8KV-15KV</li> <li>MTBF: 100000 hours</li> </ul>
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# **Hardware Parameters**

Model	ST-IND0402MPS
Port description	4 x electrical port (PoE+) 1000BASE-T 2 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

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	Backplane bandwidth: 12Gbps Packet forwarding rate: 8.92Mpps
Exchange performance	MAC address: 8K
	Packet buffer: 2Mbit
	Forwarding mode: Store and forward
	Input power: DC 48~56V (6PIN Phoenix terminal), 1*DC interface
	Power consumption: full load <6W (not including PoE)
Power supply	Dual power supply: support
	Redundant protection: support
	Reverse connection protection: support
	Shell material: metal
	Protection level: IP40
Mechanical structure	Size: 153*130*44mm (Excluding connector protruding part and DIN rail assembly size)
	Weight: 1.05Kg
	Installation method: DIN Rail installation
	Working temperature: -40°C~75°C
Surroundings	Storage temperature: -40°C~85°C
	Relative humidity: 5%~95% RH (non-condensing)
	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)
Industry Standard	IEC61000-4-6 (CS-conducted anti-interference)
muustry Standard	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
	Support 802.1q VLAN
	Maximum support 4094
	Support QinQ
	Support Mac VLAN
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
	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
	Support port mirror, port redirection, flow rate, QoS marking
Access Control (ACL)	Support Mac ACL
	Support IP ACL
	Support 8 port queues
Service quality (QoS)	Support o port queues Support port priority, 802.1p priority, DSCP priority
	Support SP, WRR, WFQ priority scheduling algorithm

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Multicast	Support fast leaving mechanism
	Support static multicast group, dynamic multicast group
	Support IGMP Snooping
	Support multicast filtering, packet statistics, unknown multicast discard
	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
Management	Support SNTP
and maintenance	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°C

Storage temperature: -40 ~ 75°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-IND0402MPS	4*10/100/1000M Self-adaptive PoE+ ports + 2*1000M SFP Slots
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