

12-Port Industrial Gigabit Managed Layer 2 Ethernet Switch
ST-IND0804MTS Datasheet



Product Description

ST-IND0804MTS is a 12-Port Industrial Gigabit managed L2 Ethernet switch that provides 8 Gigabit Rj45 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-IND0804MTS 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-IND0804MTS

• Input voltage: DC: 12-24V

• Working temperature: -40°C ~ +75°C

• Shell: IP40 protection level, fanless design

• Static electricity: 8KV-15KV

• MTBF: 100000 hours

Hardware Parameters

Model	ST-IND0804MTS
Port description	8 x electrical port (R445) 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
	Interface type: Rj45
Electrical	Rate: 10/100/1000Mbps adaptive
port characteristics	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
	IEEE802.3x 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 12~24V (6PIN Phoenix terminal), 1*DC interface Power consumption: full load < 6W 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: 1.20Kg 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
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

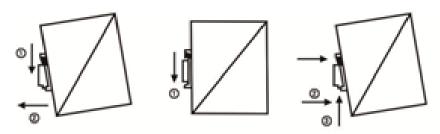
Before installation, confirm the operating environment of the equipment: power supply voltage, installation space, installation method, etc. Please carefully confirm the following installation requirements:

- 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: 12-24V DC Environmental requirements Working temperature: $-40 \sim 75^{\circ}$ C Storage temperature: $-40 \sim 75^{\circ}$ C

Relative humidity: $5\% \sim 95\%$ (no condensation)

Rail installation



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

Order Information

ST-IND0804MTS	8*10/100/1000M Self-adaptive Rj45 ports + 4*1000M SFP slots
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