



**8-Port Gigabit Managed Layer 2 PoE+ Switch with 2 SFP Slots**

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**ST-M0802PS Datasheet**

## Product Description

The ST-M0802PS is a Layer 2 Managed Gigabit PoE+ Switch, providing 8\*10/100/1000 BASE-T PoE+ Ports with 2 Gigabit SFP Slots, it offers full L2 switching functions including IP-MAC-Port Binding (IMPB) and Access Control List (ACL) protect against broadcast storm, VLANs for segmenting and isolating virtual LAN groups, port bandwidth controls, SNMP monitoring, multicast and IGMP snooping to optimize IP surveillance system performance, and Quality of Service (QoS) for traffic prioritization, to move your data smoother and faster.

The ST-M0802PS Switches also feature SFP slots to support long-distance fiber networking applications, 11 inch Metal enclosure supports desktop and rack-mounted installation, along with the easy-to-use Web GUI management interfaces, making ST-M0802PS a reliable and secure solution for Enterprise, Campus, ISP and SMB networks requirement.

## Product Appearance



ST-M0802PS

- 8\*10/100/1000M Self-adaptive PoE+ Ports
- 2\*1000M SFP Slots
- Backplane Bandwidth: 20Gbps
- Packet Forwarding Rate: 14.88Mpps
- PoE Power budget: 120W / 150W

## Product Performance

- Full Layer 2 network management and security capabilities
- Support Dynamic Link Aggregation Control Protocol (LACP)
- Support IGMP snooping optimize voice, video application
- Support short-circuit protection and Over-current protection
- Support Port Priority to protect switches in over-loading status
- Support Default button for recovery factory setting (Hold on 10s)
- Automatic detect the stuck IP Cameras, and Reboot IPC (other PDs)
- WEB/CLI managed modes, a broad range of network configurations: 802.1p CoS, 802.1q VLAN, Private, Multicast, and Voice VLAN, STP, RSTP, GVRP and QoS queue scheduling, etc

## Hardware Specifications

Model	ST-M0802PS
Downlink ports	8*10/100/1000M Self-adaptive PoE+ Ports
Uplink ports	2*1000M SFP Slots
LED indicator	PWR, Link / Act
Transmission mode	IEEE802.3x full duplex flow control and backpressure half duplex flow control
Bandwidth	20Gbps
Forwarding Rate	14.88Mpps

MAC address	8K
PoE Power Budget	120W / 150W
PoE standard	IEEE 802.3af, IEEE 802.3at
Standard protocol	IEEE802.3i 10 BASE-TX IEEE802.3u 100 BASE-TX IEEE802.3ab 1000 BASE-T IEEE802.3z 1000 BASE-LX IEEE802.3x Flow Control IEEE802.1p IEEE802.1x IEEE802.1d IEEE802.1s IEEE802.3az EEE
Power supply	AC 100~240V 50/60HZ
Dimensions	282mm*178mm*44mm
Working temperature	Working Temperature: 0°C~45°C, Humidity: 10%~90% Storage Temperature: - 20%~70%, Humidity: 5%~95%

## Software Specifications

Routing	Support static routing Support ARP proxy
Loop protection	Support ERPS Ring protection Support 50ms healing looping Support BPDU protection, root protection and loopback protection
Spanning tree (STP)	Support STP (IEEE 802.1d), Support RSTP (IEEE 802.1w) Support MSTP (IEEE 802.1s) Support loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering
PoE management	Support PoE watchdog Support PoE time setting Support PoE port management
DHCP	Support DHCP server Support DHCP relay Support DHCP Snooping Support Option, Option82
MAC address table	Follow IEEE 802.1d standard Support MAC address automatic learning and aging Support static, dynamic, filter address table

VLAN	<ul style="list-style-type: none"> <li>Support 4K VLAN</li> <li>Support 802.1Q VLAN, Mac VLAN, protocol VLAN, Private VLAN</li> <li>Support Guest VLAN, Voice VLAN</li> <li>Support GVRP protocol</li> <li>Support 1: 1 and N: 1 VLAN mapping function</li> </ul>
Security feature	<ul style="list-style-type: none"> <li>Based on user grading management and password protection</li> <li>Support for port numbers, IP addresses, MAC addresses limit users access</li> <li>Support HTTPS, SSL V3, TLS V1, SSH V1 / V2</li> <li>Support IP-MAC-Port-VLAN quarter binding</li> <li>Support ARP protection, IP source protection, DOS protection</li> <li>Support DHCP Snooping, DHCP Attack Protection</li> <li>Support 802.1x certification, AAA</li> <li>Support RADIUS</li> <li>Support TACACS+</li> <li>Support port security, port isolation</li> <li>Support CPU protection</li> </ul>
Access Control (ACL)	<ul style="list-style-type: none"> <li>Supports L2 (Layer 2) ~ L4 (Layer 4) package filter function</li> <li>Provide source / destination MAC address, source / destination IP address, TCP / UDP protocol, source / destination port number protocol, and VLAN package filtering function</li> <li>Support port mirror, port redirection, flow rate, QoS marking</li> <li>Support IPv4, IPv6, ACL</li> </ul>
Service quality (QoS)	<ul style="list-style-type: none"> <li>Support 8 port queuing</li> <li>Support port priority, 802.1p priority, DSCP priority</li> <li>Support WRR, strict priority scheduling algorithm</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>Support IGMP V1 / V2 / V3 Snooping</li> <li>Support MLD V1 / V2 Snooping</li> <li>Support fast leaving mechanism</li> <li>Support multicast VLAN</li> <li>Support multicast filtering, packet statistics, unknown multicast discard</li> </ul>
Management and maintenance	<ul style="list-style-type: none"> <li>Support Web network management (HTTP, HTTPS, SSL V3, TLS V1)</li> <li>Support CLI (Telnet, SSH V1 / V2, local serial port)</li> <li>Support SNMP V1 / V2 / V3, compatible public MIBS</li> <li>Support LLDP, RMON</li> <li>Support CPU monitoring, memory monitoring</li> <li>Support system log, grading warning</li> <li>Support ping, trace route detection, UDLD</li> <li>Support electrical port test, optical module information detection</li> <li>Support HTTP, TFTP software upgrade, configuration management</li> </ul>

## Order Information

ST-M0802PS	8*10/100/1000M Self-adaptive PoE+ Ports + 2*1000M SFP Slots
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