



MyPower S2300 Series L2 Gigabit Access Switch Datasheet

Maipu Communication Technology Co., Ltd
No. 16, Jiuxing Avenue
Hi-Tech Park
Chengdu, Sichuan Province
P. R. China
610041
Tel: (86) 28-85148850, 85148041
Fax: (86) 28-85146848, 85148139
URL: [http:// www.maipu.com](http://www.maipu.com)
Mail: overseas@maipu.com

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Overview

MyPower S2300 series L2 Gigabit switch is developed by Maipu for the enterprise network access, MAN and district network access, and the building convergence of the medium/small network. It provides the stable, reliable and secure high-performance switching service for NGN.

MyPower S2300 series switch provides the perfect solutions in the aspects of multi-service capability, security, reliability, management and maintenance. It is the ideal access device of the industry users and carriers. The system provides the security features, such as ARP anti-attack, which can prevent the virus and vicious attacks and is suitable for the networks with large scale, multiple services and complicated traffic. It has powerful multicast and QoS capability, meeting the real-time requirements of the enterprise network video, audio data and other high-priority services. Besides, It supports QinQ, VLAN Mapping, and multi-service access capabilities. MyPower S2300 series switch can provide the low-cost, high-performance, and easy-management solutions for the enterprise network center, IP MAN and district network access.

Key Features

- **High-density and expansibility**
- **Higher performance of the hardware**
- **Multi-service supporting capability**
- **Perfect security policy**
- **Rich QoS mechanism**
- **Supporting IPv6 protocol stack**

Product Features

- **Multi-service supporting capability**

MyPower S2300 series switch supports QinQ and VLAN Mapping and provides the flexible solutions for the multi-service isolation of the industry users and the MAN services of carriers.

S2300 supports IGMP Snooping and multicast VLAN technology, which is suitable for the triple-play services of carriers and video communication requirement of the enterprise network customers.

- **Perfect security policy**

MyPower S2300 supports MAC address authentication function and the static or dynamic binding of the user account, IP and port, realizes the delivering and management of user policies, and diagnoses the network illegal actions in real time.

MyPower S2300 provides the ARP Guard technology to prevent the ARP spoofing attack and supports the AM function to filter the packets forwarded by the ports.

MyPower S2300 supports extended ACL. It can classify the data flow according to the destination/source MAC address, source/destination IP address, UDP/TCP port number and protocol type. Meanwhile, it supports the ACL based on time domain and VLAN-based ACL and realizes the hierarchical access control flexibly.

- **Rich QoS mechanism**

MyPower S2300 provides four port queues, supports 802.1P/DSCP/TOS priority marking and mapping, and provides various priority queue scheduling algorithms, such as SP and WRR. It can realize the QoS functions, such as port speed limitation and traffic monitoring, meeting the requirement of the user network for data processing priority.

- **Supporting IPv6 protocol stack**

MyPower S2300 supports IPv6 protocol stack. It supports IPv6 Ping/Tracert/Telnet IPv6 ACL and MLD Snooping, meeting the smooth transition of carriers and education network from IPv4 to IPv6.

Specifications

Product Model	SM2300-12TC-AC	SM2300-12TP-AC	SM2300-12TP-AC (H)	SM2300-28TC-AC
Product configuration				
Fixed ports	8-Port 100/1000M Base-T, 4-Port 1G Combo	8-Port 100/1000M Base-T (PoE) , 4-Port 1G Combo		24-Port 100/1000M Base-T, 4-Port 1G Combo
PoE	N/A	802.3af / 802.3at		N/A
Performance parameter				
Switching capability	56Gbps			
MAC entries	8K			
VLAN	4K			
Jumbo frames	9K			
Aggregation groups	8			
QinQ	Yes			
Queue/Port	8			
Standards & Protocols				
L2 protocol	VLAN,GVRP, STP/RSTP/MSTP, BPDU Tunnel, BPDU guard, supporting 16 spanning tree instances; Traffic control, broadcast storm suppression, external loop detection, link aggregation, Port mirroring, LLDP, Aging time and add/remove static MAC, QinQ, VLAN Mapping, EIPS			
Multicast	IGMP Snooping, Fast leave, multicast VLAN, controllable multicast, MLD			
QoS	Each port supports 8 queues; Supporting 802.1p/TOS/DSCP priority and mapping; Port speed limitation and traffic monitoring; Queue scheduling: SP, WRR,SP+WRR; Bandwidth control based on MAC Sour.&Dest. , IP Add. , TCP Port and UDP Port			
Application protocol	FTP, TFTP, HTTP, SNTP, DNS Client DHCP Client, DHCP Snooping, Option82			
Security mechanism	Port isolation IP+MAC+Port+VLAN binding manually MAC address binding and MAC quantity limitation ARP packet speed limitation and ARP Guard Standard ACL and extended ACL Supporting CPU protection Anti-DOS attack Telnet based on Security IP Prevent unauthorized user			
Management	SHELL, WEB, TELNET, SSH, SNMP V1/V2/V3, MIB			

IEEE standards	IEEE 802.3 (10BASE-T) IEEE 802.3u (100BASE-T) IEEE 802.3z (1000BASE-X) IEEE 802.3ab (1000BASE-T) IEEE 802.3ae (10G BASE) IEEE 802.1ad (QinQ) IEEE 802.3ad (Link Aggregation) IEEE 802.3x (Flow Control) IEEE 802.1d (STP) IEEE 802.1Q (Virtual LAN) IEEE 802.1w (RSTP) IEEE 802.1s (MSTP) IEEE 802.1p (Cos priority)			
Physical index				
Dimension (W×D×H) mm	440*230*44mm			
Power supply				
Input voltage	AC: 100-240VAC, 50-60Hz			
Power consumption (MAX)	18W	220W	20W	
Environment parameter				
Working temperature	0-50℃	0-50℃	0-65℃	0-50℃
Working humidity	10-90% no-condensing			
MTBF	80,000 Hours			

Order Information

Product	Description
SM2300-28TC Gigabit Ethernet switch host	
SM2300-12TC-AC	8 100/1000M electric ports and four 1000M Combo interfaces, AC Power Supply.
SM2300-12TP-AC	8 100/1000M electric ports and four 1000M Combo interfaces, PoE, AC Power Supply.
SM2300-12TP-AC(H)	8 100/1000M electric ports and four 1000M Combo interfaces, PoE, AC Power Supply, high working temperature
SM2300-28TC-AC	24 100/1000M electric ports and four 1000M Combo interfaces, AC Power Supply.