



MyPower S2300 Series L2 Gigabit Switch Datasheet

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Overview

MyPower S2300-28TC-AC L2 Gigabit switch is the new version of S2300 Series, it 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 S2300-28TC-AC provides 24 10/100/1000M electric ports and four 1000M Combo interfaces, AC Power Supply.



S2300-28TC-AC

MyPower S2300-28TC-AC provides the perfect solutions in the aspects of multi-service capability, security, reliability, management and maintenance. It is the idle access device of the industry users and carriers. The system provides the security features, such as 802.1X access authentication and 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 S2300-28TC-AC 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 802.1x and 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	SM2300-28TC-AC
Product configuration	
Structure	Desk-top
Fixed ports	24-Port 100/1000M Base-T, 4-Port 1G Combo
Performance parameter	
Switching capability	56Gbps
MAC entries	8K
VLAN	4K
Jumbo frames	2K
Aggregation groups	13
QinQ	Yes
Queue/Port	8
Multicast groups	512
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
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, SNMP, DNS Client DHCP Client, DHCP Snooping, Option82
Security mechanism	Supporting 802.1X , 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 802.3z (1000BASE-X) IEEE 802.3ae (10G BASE) IEEE 802.3ad (Link Aggregation) IEEE 802.1d (STP) IEEE 802.1w (RSTP) IEEE 802.1p (Cos priority)	IEEE 802.3u (100BASE-T) IEEE 802.3ab (1000BASE-T) IEEE 802.1ad (QinQ) IEEE 802.3x (Flow Control) IEEE 802.1Q (Virtual LAN) IEEE 802.1s (MSTP) IEEE 802.1x (port authentication)
Physical index		
Dimension (W×D×H) mm	440*230*44mm	
Power supply		
Input voltage	AC: 100-240VAC, 50-60Hz	
Power consumption (MAX)	≤20W	
Environment parameter		
Working temperature	0-50℃	
Working humidity	10-90% no-condensing	
MTBF	80,000 Hours	

Order Information

Product	Description
SM2300-28TC Gigabit Ethernet switch host	
SM2300-28TC-AC	24 100/1000M electric ports and four 1000M Combo interfaces, AC Power Supply.