

# **S2300 Series L2 Gigabit Access Switch**

**Datasheet**

# Overview

S2300 Series L2 Gigabit Access Switch is the new version of S2300 Series, it is developed for the Enterprise/Carrier/SMB market. It provides the stable, reliable and secure high-performance switching service for high speed internet.

S2300-10TX-AC provides 8 10/100/1000M electric ports and two 1000M SFP interfaces, 220V AC Power Supply.

S2300-10TP-AC provides 8 10/100/1000M electric ports and two 1000M SFP interfaces, PoE/PoE+ enable, 220V AC Power Supply.

S2300-10TP-DC48 provides 8 10/100/1000M electric ports and two 1000M SFP interfaces, PoE/PoE+ enable, DC48V Power Supply.

S2300-28TC-AC provides 24 10/100/1000M electric ports and four 1000M combo interfaces, 220V AC Power Supply.

S2300-28TP-AC provides 24 10/100/1000M electric ports and four 1000M combo interfaces, PoE/PoE+ enable, 220V AC Power Supply.



S2300 Series L2 Gigabit Access Switch

S2300 series provides the perfect solutions in the aspects of multi- service capability, security, reliability, management and maintenance. It is the idle access device of the enterprise users and carriers. The system provides the security features, such as 802.1X access authentication and ARP anti-attack, which can prevent the 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. S2300 series can provide the low-cost, high-performance, and easy-management solutions for the enterprise and carrier network access.

# Product Features

- **Complete L2 Features**

S2300 series 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 series 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.

S2300 series supports spanning tree technology, which is suitable for the ring protection of carrier's network.

- **Perfect security policy**

S2300 series 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.

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

S2300 series supports standard & 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**

S2300 series provides four port queues, supports 802.1P/DSCP/TOS priority marking and mapping, and provides various priority queue scheduling algorithms, such as SP/WRR/WDRR. 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**

S2300 series supports IPv6 protocol stack. It supports IPv6 ACL and MLD Snooping, meeting the smooth transition of carriers and education network from IPv4 to IPv6.

# Specification

Product Model	S2300-10TX-AC	S2300-10TP-AC/DC48	S2300-28TC-AC	S2300-28TP-AC
<b>Product configuration</b>				
Structure	Desktop	Desktop	Desktop	Desktop
Access port	8	8	24	24
Uplink Port	2	2	4	4
DDMI	Yes	Yes	Yes	Yes
<b>Performance parameter</b>				
Switching capability	20Gbps	20Gbps	56Gbps	56Gbps
Throughput	14.88Mpps	14.88Mpps	41.7Mpps	41.7Mpps
PoE&PoE+	N/A	140W	N/A	260W/380W
Buffer	4.1Mbit	4.1Mbit	8Mbit	8Mbit
Jumbo frames	9216Bytes	9216Bytes	12KBytes	12KBytes
MAC entries	8K			
VLAN	4K			
Link Aggregation	8			
QinQ	Yes			
Queue/Port	8			
Multicast groups	512			
<b>Standards &amp; Protocols</b>				
L2 protocol	VLAN, Private VLAN, Voice VLAN, GVRP, MSTP, BPDU guard, supporting 8 spanning tree instances Traffic control, broadcast storm suppression, external loop detection, link aggregation, 1:1 port mirroring, LLDP Aging time and add/remove static MAC, mac-address management 1:1 and N:1 VLAN mapping			
Multicast	IGMP compatible, IGMP Snooping, Fast leave, multicast VLAN, 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 Rate Limit, Bandwidth control based on port Storm Control			
Application protocol	FTP, TFTP, HTTP, SNMP, DNS Client DHCP Client, DHCP Snooping, Option82			
Security mechanism	Supporting 802.1X and Guest VLAN, MAC-based authentication Port isolation, Error-disable, Port Security IP/MAC/Port/VLAN binding manually MAC address binding and MAC quantity limitation ARP packet speed limitation, ARP Guard, ARP Inspection Standard ACL and extended ACL, IPV6 ACL IP Source Guard			
Management	Shell, Web, Telnet, SSH, SNMP, ROM, AAA, Radius, Logging, Syslog, Ping, Trace Route, Link Detection(VCT)			
IEEE standards	IEEE 802.3u (100BASE-T) 802.3z (1000BASE-X) IEEE 802.3ad (LACP)	IEEE 802.3ab (1000BASE-T) IEEE 802.1ad (QinQ) IEEE 802.3x (Flow Control)	IEEE	

	IEEE 802.1d (STP) IEEE 802.1w (RSTP) IEEE 802.1p (Cos priority) IEEE802.3at (PoE+)	IEEE 802.1Q (Virtual LAN) IEEE 802.1s (MSTP) IEEE 802.1x (port authentication) IEEE802.3af (PoE)
<b>Physical index</b>		
Dimension (W×D×H) mm	280*180*44mm	440x205x44mm
<b>Power supply</b>		
Input Voltage(AC)	AC: 100-240VAC, 50-60Hz; DC: 48V	
<b>Environment parameter</b>		
Working temperature	0-55℃	
Storage temperature	-40℃~70℃	
Working humidity	10-90% no-condensing	

## Order Information

Product Model	Description
S2300 Series	
S2300-10TX-AC	8 10/100/1000M electric ports and two 1000M SFP interfaces, 220V AC Power Supply.
S2300-10TP-AC	8 10/100/1000M electric ports and two 1000M SFP interfaces, PoE/PoE+ enable, 220V AC Power Supply.
S2300-10TP-DC48	8 10/100/1000M electric ports and two 1000M SFP interfaces, PoE/PoE+ enable, DC 48V Power Supply.
S2300-28TC-AC	24 10/100/1000M electric ports and four 1000M combo interfaces, 220V AC Power Supply.
S2300-28TP-AC	24 10/100/1000M electric ports and four 1000M combo interfaces, PoE/PoE+ enable, 220V AC Power Supply.