

MAIPU

MyPower S3100 Series Switch Datasheet

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Contents

| | |
|------------------------|----|
| Overview..... | 4 |
| Key Features..... | 7 |
| Product Features | 8 |
| Specifications | 10 |
| Order Information..... | 12 |

Overview

MyPower S3100 series switch is the new multi-service Ethernet switching product 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 S3100 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 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, S3100 supports QinQ, VLAN Mapping, and multi-service access capabilities. MyPower S3100 series switch can provide the low-cost, high-performance, and easy-management solutions for the enterprise network center, IP MAN and district network access.

MyPower S3100 series switch contain the following models:

SM3100-9TC provides 8 10/100M electric ports and one 1000M Combo interface;

SM3100-9TP provides 8 10/100M electric ports and one 1000M Combo interface, and supports PoE;

SM3100-18TC provides 16 10/100M electric ports and two 1000M Combo interfaces;

SM3100-26TC provides 24 10/100M electric ports and two 1000M Combo interfaces;

SM3100-26TP provides 24 10/100M electric ports and one 1000M Combo interface, and supports PoE;

SM3100-28TC provides 24 10/100M electric ports and four 1000M Combo interfaces;

SM3100-52TC provides 48 10/100M electric ports and four 1000M Combo interfaces;



SM3100-9TC switch



SM3100-9TP switch



SM3100-18TC switch



SM3100-26TC switch



SM3100-26TP switch



SM3100-28TC switch



SM3100-52TC switch

Key Features

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

Product Features

- **High-density and expansibility**

MyPower S3100 provides the high density access capability of up to 48 ports. Meanwhile, SM3100-28TC and SM3100-52TC have four 10/100/1000Base-T and four 1000Base-X SFP multiplexing 1000M uplink ports, which protects the user line investment and the requirement of expanding the capacity.

- **Multi-service supporting capability**

MyPower S3100-28TC and S3100-52TC support QinQ and VLAN Mapping which provide the flexible solutions for the multi-service isolation of the industry users and the MAN services of carriers.

S3100 supports IGMP Snooping and multicast VLAN technology, which is suitable for the three-network convergence construction of carriers and video communication requirement of the enterprise network customers.

Meanwhile, S3100 provides PoE remote power supply, which is convenient for deploying IP Phone and wireless AP and meets the multi-service requirement.

- **Perfect security policy**

MyPower S3100 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 S3100 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 S3100 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 S3100 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 S3100 supports IPv6 protocol stack. The L3 interface can be configured with the IPv6 address. 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 | MyPower S3100-9/18/26TC MyPower S3100-9/26TP | MyPower S3100-28/52TC |
| Product configuration | | |
| Structure | Desk-top | |
| Physical ports | 8/16/24 10/100M electrical interfaces, 1/2/2 1G Combo interfaces; 8/24 10/100M electrical interfaces, 1/2 1G Combo interfaces, supporting POE | 24/48 10/100M electrical interfaces, 4 1G Combo interfaces |
| Console port | RJ45 interface | DB9 serial port |
| Performance parameter | | |
| Switching capacity | 3.6/7.2/8.8Gbps | 12.8/17.6Gbps |
| IPv4 throughput | 2.7/5.4/6.6Mpps | 9.52/13.1Mpps |
| VLAN | 4K | |
| MTBF | 80,000 hours | |
| Standards & Protocols | | |
| L2 protocol | 4k 802.1Q VLAN (ranging from 1 to 4096), GVRP dynamic VLAN, STP/RSTP/MSTP, single-port spanning tree enabling, port mirroring, MAC aging time 10-1000000s, network loopback detection, IGMP snooping, 802.1X, QinQ (for 3100-28TC&3100-52TC) | |
| QoS | Port rate limitation, port flow shape, queue scheduling algorithm, 4 priority queues, 802.1P/DSCP/TOS supporting | |
| Upper application | HTTP, TELNET, FTP/TFTP, DHCP/DHCP Server /DHCP Snooping, SNMP V1/V2/V3, RMON 1/2/3/9, SNTp, MCMP/NDSP cluster management, LOG recording | |
| Security mechanism | Global address filtering, port security, ACL, 802.1X access authentication, Radius user grading login authentication, broadcast packet suppression, anti-ARP spoofing, anti-ARP scan | |
| System management | SHELL, WEB, TELNET, SNMP V1/V2/V3, network management software, third-party software | |
| IEEE standards | IEEE 802.3 (10BASE-T) IEEE 802.3u (100BASE-T) IEEE 802.3z (1000BASE-X) IEEE 802.3ab (1000BASE-T) 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) IEEE 802.1X (port authentication) | |
| Physical index | | |
| Dimension (W*D*H) | 282.2mm*44mm*178mm (9TC) 442.9mm*44mm*230.2mm (9TP) 442.9mm*44mm*230.2mm (18TC) 442.9mm*44mm*230.2mm (26TC) 442.9mm*44mm*230.2mm (26TP) | 440mm*44mm*171mm (28TC) 440mm*44mm*229mm (52TC) |
| Power supply | | |
| Input voltage (AC) | 100-240V, 50-60Hz | |
| Input voltage (DC) | -48V | |
| Power consumption (MA*) | S3100-9TC: 15W S3100-9TP:180W S3100-18TC: 18W S3100-26TC: 25W S3100-26TP:500W | 30W |
| POE Output consumption | S3100-9TP:130W S3100-26TP:380W (need configure outside POE Power Supply) | |
| Environment parameter | | |
| Working temperature | 0-50°C | |
| Working humidity | 10-90% no-condensing | |

Order Information

| Product | Description |
|---|--|
| SM3100-9TC Ethernet switch host | |
| SM3100-9TC-AC | Eight 10/100M electric ports, one 1000M Combo interface, AC |
| SM3100-9TC-DC | Eight 10/100M electric ports, one 1000M Combo interface, DC |
| SM3100-9TP Ethernet switch host | |
| SM3100-9TP-AC | Eight 10/100M electric ports, one 1000M Combo interface, AC, supporting POE |
| SM3100-9TP-DC | Eight 10/100M electric ports, one 1000M Combo interface, DC, supporting POE |
| SM3100-18TC Ethernet switch host | |
| SM3100-18TC-AC | 16 10/100M electric ports, two 1000M Combo interfaces, AC |
| SM3100-26TC Ethernet switch host | |
| SM3100-26TC-AC | 24 10/100M electric ports, two 1000M Combo interfaces, AC |
| SM3100-26TC-DC | 24 10/100M electric ports, two 1000M Combo interfaces, DC |
| SM3100-26TP Ethernet switch host | |
| SM3100-26TP-AC | 24 10/100M electric ports, two 1000M Combo interfaces, AC, supporting POE, need to be configured with outside POE Power Supply |
| SM3100-26TP-DC | 24 10/100M electric ports, two 1000M Combo interfaces, DC, supporting POE, need to be configured with outside POE Power Supply |
| SM3100-28TC Ethernet switch host | |
| SM3100-28TC-AC | 24 10/100M electric ports, four 1000M Combo interfaces, AC |
| SM3100-52TC Ethernet switch host | |
| SM3100-52TC-AC | 48 10/100M electric ports, four 1000M Combo interfaces, AC |
| SFP interface module | |
| SFP-M1-L24P8 | 1000M multi-mode optical module, wavelength 850nm, LC interface, transmission distance 500m |
| SFP-S2-L24P3 | 1000M single-mode optical module, wavelength 1310nm, LC interface, transmission distance 20km |
| SFP-S4-L24P3 | 1000M single-mode optical module, wavelength 1310nm, LC interface, transmission distance 40km |
| SFP-S4-L24P5 | 1000M single-mode optical module, wavelength 1550nm, LC interface, transmission distance 40km |
| SFP-S8-L24P5 | 1000M single-mode optical module, wavelength 1550nm, LC interface, transmission distance 80km |