



# MyPower S4200 Series Gigabit Fiber Aggregation Routing Switch

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## Datasheet

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# S4200 Series Switch

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MyPower S4200 is a high-performance aggregation Gigabit routing switch developed by Maipu. It is applied in enterprise network center LAN and district access of IP MAN. It can forward L2 Ethernet data frames and L3 IP packets with line rate, and has QoS and multicast capability. It can perform the L2-L7 ACL filtering on packets according to user definitions and combine with 802.1x authentication protocol to meet the security requirements of users.

MyPower S4200 series includes SM4200-28FC and SM4200-52FC models.

- SM4200-28FC provides 24 Gigabit SFP optical interfaces and 12 Gigabit Combo electric interfaces, two 10G Extension slots.
- SM4200-52FC provides 48 Gigabit SFP optical interfaces, 4 Gigabit Combo electric interfaces, two 10G Extension slots.

MyPower S4200 can also meet the requirements of the enterprise network video and audio data with high priorities and other specified data for routing switches. It can provide low-cost, high-performance, strong-expansibility and simple-management solutions for the aggregation of enterprise network centers, IP MAN, campus and district network, and buildings.



**MyPower S4200 Gigabit Fiber Aggregation Switch**

# Key Features

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- **High-density Gigabit optical access**

MyPower S4200 provides 24 and 48 Gigabit SFP optical interfaces and up to four 10G interfaces and can forward L2/L3 data with full line rate. It can be applied to the Ethernet aggregation of enterprise network center LAN and IP MAN districts.

- **Supports L2/L3 protocols**

S4200 supports 802.1d/w/s spanning tree protocol; 802.1q, 802.1p, 802.3ad, 802.3x, GVRP, DHCP, and SNTP protocols; IGMP, DVMRP, and PIM multicast protocols; RIPv1/2, OSPF, BGP, and VRRP routing protocols. It is suitable for complicated network environment. It supports MCE protocols and functions.

- **Perfect security policy**

S4200 can classify the data as per source/destination IP, IP protocol type, TCP/UDP, source/destination port number, IP-based priority (DSCP, TOS, Precedence), time range and ToS and use different policies to forward powerful access control capability. It has perfect security function design. For example, it supports SNMP V3, MAC+IP+VLAN binding and 802.1X authentication, and anti-network storm attack, anti-DOS/DDOS attack, anti-ARP attack and anti-network protocol packet attack. In this way, the attacks and virus can be prevented efficiently and it is more suitable for large-scale, multi-service and complicated networks.

- **Rich QoS mechanisms**

Each port provides up to eight priority queues, whose bandwidths can be set. S4200 supports WRR/SP/SWRR/DWRR/SDWRR scheduling modes. It can configure CoS, DSCP, IP priority, and port priority and modify the DSCP and COS of the packet. It can classify traffic as per port, VLAN, DSCP, IP priority and ACL, modify DSCP and IP priority, and specify different bandwidths to meet the requirements of customers' networks for data processing priorities.

- **Advanced MPLS VPN Features**

S4200 supports rich IPv6/MPLS features and distributed full wire-speed hardware IPv6/MPLS forwarding mode to realize the intra-board and inter-board wire-speed processing of IPv6/MPLS packets, avoid the bottleneck and delay problems of the centralized forwarding, and provide the strong guarantee for the large-scale commercial applications of IPv6/MPLS.

- **Comprehensive network management**

S4200 provides SHELL, TELNET, WEB, SNMP, cluster management, third-party software to realize across-platform and modular network

management and friendly man-machine interface, and provide powerful support for users to manage devices and control network status.

# Technical Specifications

<b>Product model</b>	<b>MyPower S4200</b>	
<b>Frame model</b>	<b>SM4200-28FC-AC</b>	<b>SM4200-52FC-AC</b>
<b>Product configurations</b>		
Device structure	Desktop	
Physical port	24 Gigabit SFP optical interfaces and 12 Gigabit Combo electric interfaces, two 10G Extension slots	48 Gigabit SFP optical interfaces, 4 Gigabit Combo electric interfaces, two 10G Extension slots
Console port	One	
<b>Performance parameters</b>		
Switching capability	128Gbps	176Gbps
VLAN	4K	
Grounding	Yes	
Anti-static	Yes	
Lightning strike	Yes	
Mean non-fault time	>80000 hours	
<b>Standards and protocols</b>		
L2 protocol	802.1X, VLAN, QinQ, PVLAN, STP, RSTP, MSTP, port mirroring, IGMP Snooping, GVRP, broadcast storm control, AAA, port binding, address filtering, IP-based filtering, MAC-based ACL, MAC+ IP-based ACL, source/destination IP address-based ACL, TCP/UDP port number-based ACL	
L3 protocol	Static route, RIPv1/v2, OSPF, BGP, IGMP, PIM-SM, PIM-DM, DVMRP, VRRP, BFD	
Upper layer application	HTTP, TELNET, FTP/TFTP, DHCP/DHCP Relay, SNMP V1/V2/V3, RMON 1/2/3/9, SNTp	
Security mechanism	SSH, ACL flow filtering mechanism, ACL, SNMPv3, Radius, user grading login authentication, access table host access control, data log, IP address/VLAN, packet filtering, packet filtering at application layer	
Network management interface	SHELL, WEB, TELNET, network management software, third-party software	
QoS	Diff-serv/QoS, SP, WRR, SP+WRR, DWRR, SDWRR, queue scheduling arithmetic, 802.1P/DSCP/TOS	
L3 VPN	Multi-VRF, MCE, MPLS VPN	



IEEE	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 802.1x (port authentication) 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)
<b>Physical index</b>	
Dimension (W×D×H)	436mm ×420mm ×44 mm
<b>Power supply</b>	
Input voltage (AC)	100~240V, 50~60Hz
Power consumption (MAX)	80W
<b>Environment</b>	
Temperature	0~45°C
Humidity	10~90%, non-condensing

# Order Information

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Product Model	Description
<b>MyPower S4200</b>	
SM4200-28FC-AC	24 Gigabit SFP optical interfaces and 12 Gigabit Combo electric interfaces, two 10G Extension slots(up-to 4 10G Ports) ,AC Power Supply
SM4200-52FC-AC	48 Gigabit SFP optical interfaces, 4 Gigabit Combo electric interfaces, two 10G Extension slots(up-to 4 10G Ports),AC Power Supply
<b>SFP&amp;XFP interface module</b>	
SM41F-2XFP	2-Port 10GE Card
SM41F-2GEF	2-Port 1G SFP Card