

MyPower S4330 Series Stackable 10G L3 Aggregation Switch Datasheet

Overview

MyPower S4330 is a high-performance stackable 10G L3 aggregation routing switch developed by Maipu. It is applied in enterprise campus network and easy to deploy Layer3 switching solution that offers enhanced security and 10GbE uplinks, OSPF/BGP, L2&L3 Multicast, VST stacking enabled and flexible management.

The S4330 series switches can be used as core devices on enterprise branch networks and small & medium-sized campus networks. They are also used as aggregation devices on large-sized campus networks. The switches help build highly reliable enterprise campus networks that are easy to expand and manage.

MyPower S4330 series includes S4330-30TXF, S4330-30TXP, S4330-54TXF, S4330-54TXP, S4330-54GXF five models.

S4330-30TXF Provides 24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.

S4330-30TXP Provides 24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots, PoE&PoE+ Enable.

S4330-54TXF Provides 48*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.

S4330-54TXP Provides 48*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots, PoE&PoE+ Enable.

S4330-54GXF Provides 48*100/1000M SFP interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.

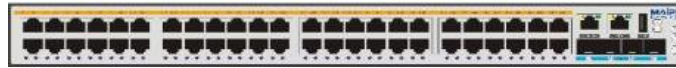
S4330-54TGXF Provides 36 100/1000M electric interfaces, 16 1000M SFP interfaces, four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.



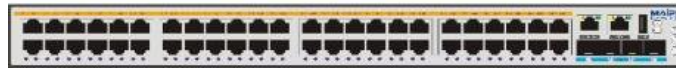
S4330-30TXF



S4330-30TXP



S4330-54TXF



S4330-54TXP



S4330-54GXF

Key Features

Intelligent VST stacking

S4330 series switch supports Maipu VST stacking function. Multiple switches supporting stacking feature are combined to form a virtual switch logically. VST stacking system improves the device-class reliability by redundant backup among multiple member devices, and improves the link-class reliability by the link aggregation function across devices. VST provides a powerful network expansion capability. By adding member devices, it can easily expand the number of ports, bandwidth and processing capacity of the stacking system. VST simplifies the configuration and management. After stacking is formed, many physical devices become a virtual device, and users can log into the master switch to configure and manage all member devices of the stacking system in a unified manner.

High availability

S4330 series switch not only supports the traditional STP/RSTP/MSTP spanning tree protocol, but also supports the G.8032 international standard ERPS protocol issued by ITU-T. This standard can realize 50ms millisecond fast protection switching of Ethernet ring network. The S4330 also supports Virtual Router Redundancy Protocol (VRRP), which implement backup of uplinks. One switch can connect to multiple aggregation switches through multiple links, significantly improving the reliability of access devices.

Perfect security policy

S4330 series switch provides various security policies such as user authority/identity authentication, port security, port rate limitation, port monitoring, ACL, loopback detection, and 802.1X authentication; provides various protect mechanisms for user access and network security. It has perfect security function design and supports MAC+IP+VLAN binding and 802.1X authentication security policies, and anti-network storm attack, anti DOS/DDOS attack, anti ARP attack, and anti-network protocol packet attack security technologies. In this way, the attacks and virus can be prevented and it is more suitable for large-scale, multi-service and complicated-traffic networks.

Advanced QoS

Each port of S4330 supports eight queues and the queue scheduling policies such as SP, RR, WRR, and WDRR; rich priority mappings including 802.1p, COS, DSCP; Kbps-level port traffic rate restriction and carriers can limit the rate according to the time period; Tail Drop and RED packet loss algorithm.

Mature IPv6 Features

S4330 series comes with IPv4/IPv6 dual-stack platform which provides hardware-based IPv4/IPv6 wire-speed forwarding and IPv4/IPv6 Layer3 routing protocols (RIPng, OSPFv3, BGP4+ and IS-IS for IPv6). With these IPv6

features, the S4330 can be deployed on a pure IPv4 network, a pure IPv6 network, or a shared IPv4/IPv6 network, helping achieve IPv4-to-IPv6 transition.

Comprehensive network management

S4330 series switch provides SHELL, TELNET, SSH, SNMP management, third-party software to realize across-platform and large-scale network management and friendly man-machine interface, and provide powerful support for users to manage devices and control network status.

Technical Specifications

Product model	MyPower S4330					
Frame model	S4330-30TXF	S4330-30TXP	S4330-54TXF	S4330-54TXP	S4330-54GXF	S4330-54TGXF
Product configurations						
Device Structure	Desktop					
Physical Port	24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.	24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots, PoE&PoE+ Enable.	48*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.	48*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots, PoE&PoE+ Enable.	48*100/1000M SFP interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.	36 100/1000M electric interfaces, 16 1000M SFP interfaces, four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.
Memory	256MB Flash, 1GB RAM					
RJ45 Console Port	1					
USB Port	1					
10G Extension Slots	1					
Power Supply Slots	Dual					
Intelligent Fans	Yes					
Performance parameters						
Switching Capability	168Gbps	168Gbps	216Gbps	216Gbps	216Gbps	216Gbps
Throughput	125Mpps	125Mpps	160.7Mpps	160.7Mpps	160.7Mpps	160.7Mpps
Jumbo	12K	12K	12K	12K	12K	12K
VLAN Entry	4K					
MAC Entry	32K					
Routing Entry	12K					
Multicast Entry	6K					
ACL Entry	4K					
Packet Buffer	16Mbit					
Anti-static	Yes					
Anti-lightning	Yes					
MTBF	>100000 hours					
Physical index						
Dimension (W×D×H)	442*420*44.2(mm)					
Power supply						
Power Input	AC 100-240V, 50-60Hz					

Power Consumption (MAX)	≤75W					
PoE Power consumption (MAX)	N/A	380W	N/A	760W	N/A	N/A
Environment						
Working Temperature	0°C~50°C					
Humidity	10~90%, non-condensing					
Software Features						
Standard L2 protocol	LAN	Port Type UNI/NNI, Port Speed, Port MTU, Switch Port, Port Loopback, Port Energy Control, Loopback interface, Null interface				
		MAC address aging time, Mac address learning on/off, Mac address learning limitation, Mac address VLAN bundling, MAC debug				
		VLAN, VLAN PVID, VLAN interface, VLAN Tag/Untag, VLAN Trunk, MAC VLAN, Protocol VLAN, Subnet VLAN, Super VLAN, Voice VLAN, VLAN Debug				
		STP/RSTP/MSTP, BPDU Guard, Flap Guard, Loop Guard, Root Guard, TC Guard				
		G.8032(ERPSv1&v2)				
		Static Multicast, IGMP Snooping, IGMP Snooping Proxy				
		LACP Link aggregation, LACP Port Priority, LACP Load Balance, LACP Rate Monitor, LACP Debug				
		Error-disable based on bpduguard Dai DHCP Snooping Link-Flap Loopback-detect Port Security Storm Control Transceiver Power, Error-disable recovery				
ULFD, Track, Loopback Detection, Loopback Debug						
Standard L3 protocol	Routing Protocol	Static route, RIP v1/v2, RIPng, OSPFv2, OSPFv3, BGP, BGPv6, ISIS, VRRP, Policy Route, IP-VRF				
	BFD	BFD with Static RIP OSPF BGP ISIS				
	L3 Multicast	IGMP, PIM-SM				
	DHCP	DHCP Server, DHCP Client, DHCP Relay, DHCP Snooping, DHCP Option51/82, DHCPv6				
Stacking	VST	VST Member, VST Domain, VST Member Priority, VSL Channel				
	MAD	MAD LACP, MAD Fast-hello				
Network security	Port Security	Port Security On aging deny permit violation ACL				
	Network Security	IP Source Guard, DHCP Snooping, Host Guard, Dynamic ARP Inspection				
	Access Control List	Standard IP ACL, extended IP ACL, standard MAC ACL, extended MAC ACL, Standard Hybrid ACL, extended Hybrid ACL, Standard IPv6 ACL, extended IPv6 ACL				
	Anti-attack	Anti-attack detect drop flood log				

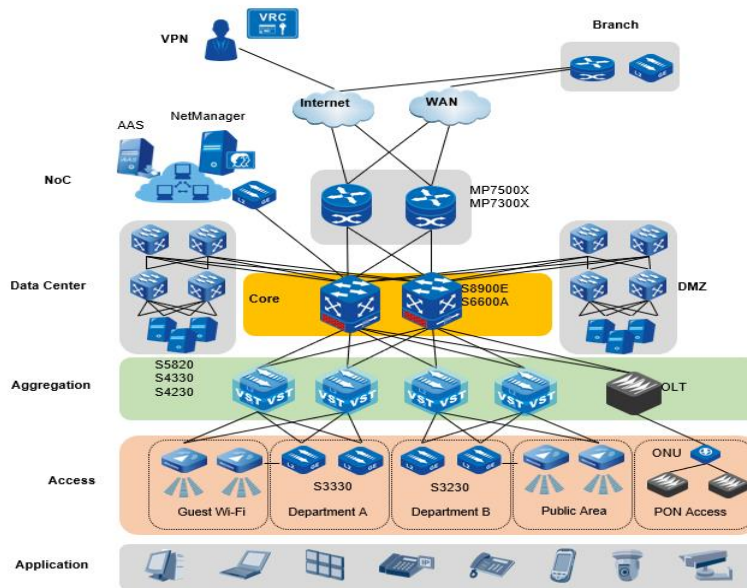
	AAA	Authentication, Authorization, Accounting, Radius, TACACS, 802.1x
QoS	Flow Classification	802.1P priority, DSCP priority
	Traffic Speed Control	Rate Limit, Traffic Shaping
	Congestion Management	SP, RR, WDRR, SP+WRR
	Congestion Avoidance	Tail-drop, RED, WRED
Management	Network Management	SNMP v1/v2/v3, MIB, RMON, SYSLOG, DNS, CLI, Telnet, FTP/TFTP, Debug
	Network Monitoring	SPAN, sFlow, LLDP, IP-SLA Based On ICMP-echo ICMP-path-echo ICMP-path-jitter VoIP jitter UDP echo
IEEE Standard	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-X) IEEE 802.1x (port authentication) IEEE 802.3ad (Link Aggregation) IEEE 802.3x (Flow Control) IEEE802.3az (Energy Efficient Ethernet) IEEE 802.1d (STP) IEEE 802.1Q (Virtual LAN) IEEE 802.1w (RSTP) IEEE 802.1s (MSTP) IEEE 802.1p (Cos priority)	

Order Information

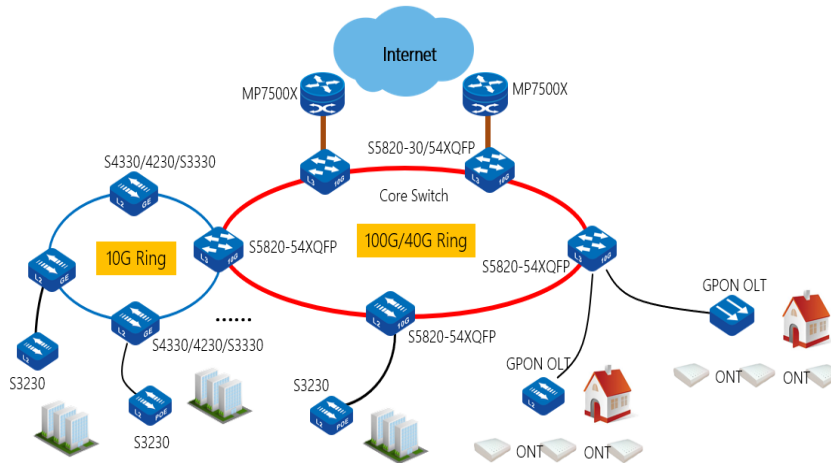
Series	Model	Description
MyPower S4330 Series Host		
MyPower S4330 Series	S4330-30TXF	24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots.
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Power Supply		
Power Module	AD120-1S005E	120W AC Power Supply Module (For Non-POE model)
	AD500-1D005E	500W AC Power Supply Module (For POE model)
	DD250-5D005E	120W DC Power Supply Module(For Non-POE)
	DD500-5D005E	500W DC Power Supply Module(For POE model)
10G Extension Module		
10G Module	SM4C-2XGEF	2-Port 10G Extension Module
Stacking Cable		
Stacking Cable	SFP-STACK-15	High speed stacking cable, SFP+ to SFP+,10Gbps, L=1.5m
	SFP-STACK-30	High speed stacking cable, SFP+ to SFP+,10Gbps, L=3.0m
	SFP-STACK-50	High speed stacking cable, SFP+ to SFP+,10Gbps, L=5.0m

Typical Application

Campus LAN Network



ISP FTTH Network



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Maipu Communication Technology Co., Ltd

No.288,Tianfu 3rd Street
Hi-Tech Zone
Chengdu, Sichuan Province
P. R. China
610041

Tel: (86) 28-65544850,

Fax: (86) 28-65544948,

URL: [http:// www.maipu.com](http://www.maipu.com)

Email: overseas@maipu.com

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