

MyPower S4230 Series Stackable 10G L3 Aggregation Switch Datasheet

Overview

MyPower S4230 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 S4230 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.

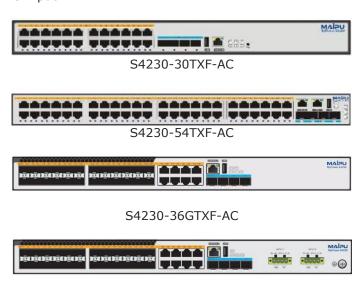
MyPower S4230 series includes S4230-30TXF-AC, S4230-54TXF-AC, S4230-36GTXF-AC, S4230-36GTXF-DC48 four models.

S4230-30TXF-AC Provides 24*10/100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power Supply.

S4230-54TXF-AC Provides 48*10/100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power Supply.

S4230-36GTXF-AC Provides 24*100/1000M SFP optical interfaces, 8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply.

S4230-36GTXF-DC48 Provides 24*100/1000M SFP optical interfaces, 8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual DC Input.



S4230-36GTXF-DC48

Key Features

Intelligent VST stacking

S4230 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

S4230 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 S4230 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

S4230 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 S4230 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

S4230 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 S4230 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

S4230 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 S4230				
Frame Model	S4230-	S4230-	S4230-36GTXF-	S4230-36GTXF-	
	30TXF-AC	54TXF-AC	AC	DC48	
Product Configurations					
Device Structure	Desktop				
Physical Port	24*10/100/1000 M electric interfaces, Six 10G SFP+ interfaces, Dual Power Slots.	48*10/100/1000 M electric interfaces, Six 10G SFP+ interfaces, Dual Power Slots.	24*1000M SFP optical interfaces, 8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply.	24*1000M SFP optical interfaces, 8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual DC Input.	
RJ45 Console Port	:	1		1	
USB Port	1			1	
Power Supply		Dual AC Power Sup	pply	Dual DC Input	
Intelligent Fans	Y	es	Yes		
Performance Parar	neters				
Switching Capability	168Gbps	216Gbps	144Gbps	144Gbps	
Throughput	125Mpps	160.7Mpps	107Mpps	107Mpps	
Jumbo	12K	12K	12K	12K	
VLAN Entry	4K	4K			
MAC Entry	32K				
Routing Entry	12K				
Multicast Entry	4K				
ACL Entry	4K				
Packet Buffer	16Mbit	16Mbit			
Anti-static	Yes				
Anti-lightning	Yes				
MTBF	>100000 hours				
Physical Index			ı	1	
Dimension (W×D×H)	442*420*	44.2(mm)	442*320*44.2(mm)	442*220*44.2(mm)	
Power Supply					
Power Input	AC 100-240V, 50-60Hz DC -48V			DC -48V	
Power Consumption (MAX)	≤75W ≤100W				
Environment					
Working Temperature	0°C∼50°C	0°C~50°C			
Humidity	$10{\sim}90\%$, non-condensing				
	<u> </u>				
Standard L2 Protocol	tandard L2 Protocol LAN		Port Type UNI/NNI, Port Speed, Port MTU, Switch Port, Port Loopback, Port Energy Control, Loopback interface, Null interface		
33.133.13 EE 1 100001		Mac addre	MAC address aging time, Mac address learning on off, Mac address learning limitation, Mac address VLAN bunding, 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
	Flow Classification	802.1P priority, DSCP priority
0.0	Traffic Speed Control	Rate Limit, Traffic Shaping
QoS	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

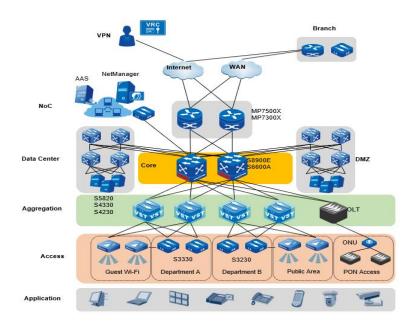
IEEE Standard	IEEE 802.3 (10BASE-T)	IEEE 802.3u (100BASE-T)			
	IEEE 802.3z (1000BASE-X)	IEEE 802.3ab (1000BASE-T)			
	IEEE 802.3ae (10G BASE-X)	IEEE 802.1x (port authentication)			
	IEEE 802.3ad (Link Aggregation) IEEE 802.3x (Flow Control)				
	IEEE802.3az (Energy Efficient Ethernet)				
	IEEE 802.1d (STP) IEEE 802.1Q (Virtual LAN)				
	IEEE 802.1w (RSTP) IEEE 802.1s (MSTP)				
	IEEE 802.1p (Cos priority)				

Order Information

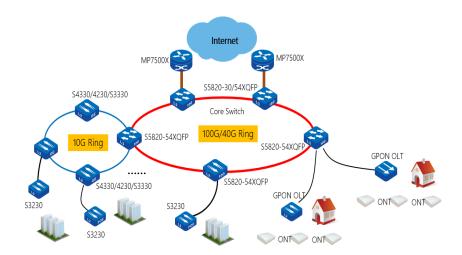
Series	Model	Description		
MyPower S4230 Series Host				
MyPower S4230 Series	S4230-30TXF-AC	24*10/100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power Supply.		
	S4230-54TXF-AC	48*10/100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power Supply.		
	S4230-36GTXF-AC	24*100/1000M SFP optical interfaces, 8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply.		
	S4230-36GTXF-DC48	24*100/1000M SFP optical interfaces, 8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual DC Input.		
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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