

# MyPower S3230 Series Stackable 10G L2+ Access Switch Datasheet

## Overview

MyPower S3230 is a high-performance stackable 10G L2+ access routing switch developed by Maipu. It is applied in enterprise campus network and easy to deploy Layer2 switching solution that offers enhanced security and 10GbE uplinks, Static Route, L2 Multicast, VST stacking enabled and flexible management.

The S3230 series switches can be used as access devices on enterprise branch networks. The switches help build highly reliable enterprise campus networks that are easy to expand and manage.

MyPower S3230 series includes S3230-12TXF-AC, S3230-12TXP-AC, S3230-28TXF-AC, S3230-28TXP-AC, and S3230-54TXP-AC .

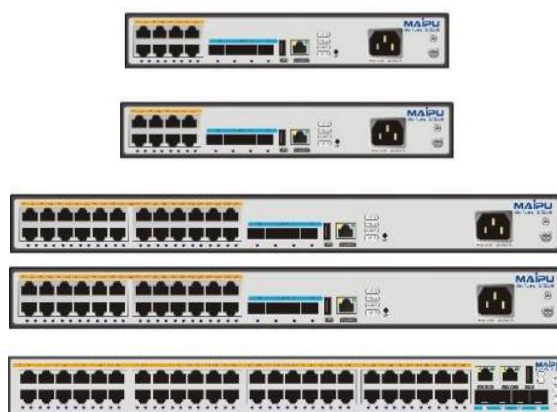
S3230-12TXF-AC Provides 8\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply.

S3230-12TXP-AC Provides 8\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply, PoE&PoE+ Enable.

S3230-28TXF-AC Provides 24\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply.

S3230-28TXP-AC Provides 24\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply, PoE&PoE+ Enable.

S3230-54TXP-AC Provides 48\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One 2\*10G extension slot, One AC Power Supply, PoE&PoE+ Enable.



S3230 Series

# Key Features

## Intelligent VST stacking

S3230 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

S3230 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. One switch can connect to multiple aggregation switches through multiple links, significantly improving the reliability of access devices.

## Perfect security policy

S3230 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 S3230 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.

## Comprehensive network management

S3230 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

<b>Product Model</b>	<b>MyPower S3230</b>	
<b>Frame Model</b>	S3230-12TXF-AC S3230-28TXF-AC	S3230-12TXP-AC S3230-28TXP-AC S3230-54TXP-AC
<b>Product Configurations</b>		
Device Structure	Desktop	
Physical Port	8/24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply.	8/24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply, PoE&PoE+ Enable. 48*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One 2*10g extension slot, One AC Power Supply, PoE&PoE+ Enable.
Memory	256MB Flash, 512MB RAM. 256MB Flash, 1GB RAM(For 54TXP only)	
RJ45 Console Port	1	
USB Port	1	
Extension slot	N/A	1(54TXP only)
Power Supply	One	One
Intelligent Fans	Yes	
<b>Performance Parameters</b>		
Switching Capability	96/128Gbps	96/128/216Gbps
Throughput	71/95.2Mpps	71/95.2/160Mpps
Jumbo	12K	
VLAN Entry	4K	
MAC Entry	16K(12/28port), 32K(54port)	
Routing Entry	496	
ACL Entry	2K	
Packet Buffer	12Mbit	
Anti-static	Yes	
Anti-lightning	6KV	
MTBF	>80000 hours	
<b>Physical Index</b>		
Dimension (W×D×H) (mm)	280*180*44(12 port) 442*220*44	280*180*44(12 port) 442*380*44
<b>Power Supply</b>		
Power Input	AC 100-240V, 50-60Hz	AC 100-240V, 50-60Hz
Power Consumption (MAX)	≤50W	≤50W
POE Power Consumption (MAX)	N/A	120W/380W/760W

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, Storm Control
		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, Multicast Control
		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
UDLD, Track, Loopback Detection, Loopback Debug		
Standard L3 protocol	Routing Protocol	Static route
	DHCP	DHCP Server, DHCP Client, DHCP Relay, DHCP Snooping, DHCP Option51/82
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
	Anti-attack	Anti-attack detect drop flood log
	AAA	Authentication, Authorization, Accounting, Radius, TACACS, 802.1x
QoS	Flow Classification	LP, 802.1P priority, DSCP priority

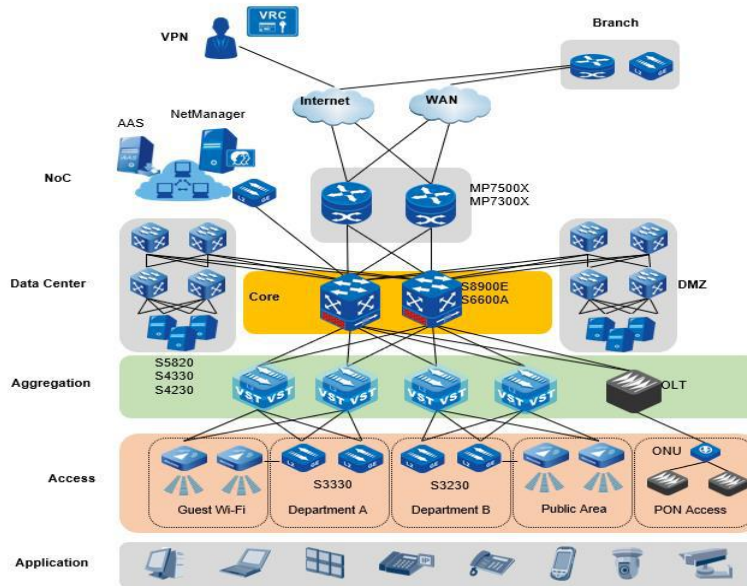
	Traffic Speed Control	Rate Limit, Traffic Shaping
	Congestion Management	SP, RR, WDRR, SP+WRR
	Congestion Avoidance	Tail-drop, RED, WRED
Management	Network Management	SNMP v1/v2/v3, MIB, RMON, SYSLOG, DNS, CLI, PING, Telnet, FTP/TFTP, NTP, Debug
	Network Monitoring	SPAN, LLDP, sFlow
IEEE Standard	IEEE 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

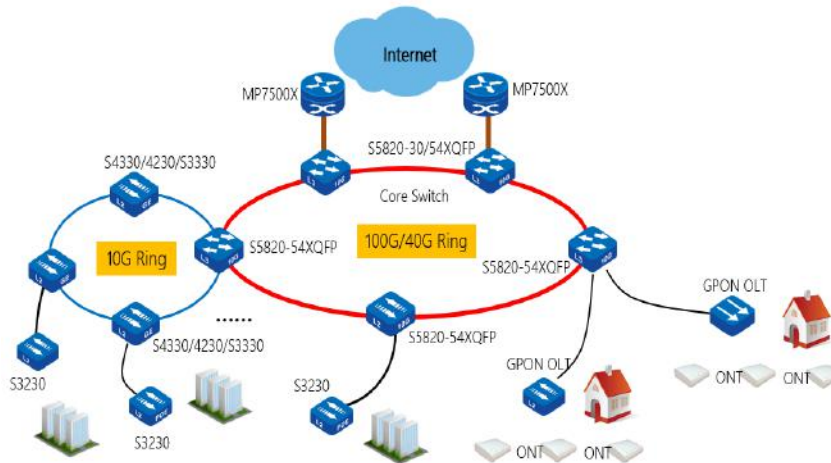
Series	Model	Description
<b>MyPower S3230 Series Host</b>		
MyPower S3230 Series	S3230-12TXF-AC	8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply.
	S3230-12TXP-AC	8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply, PoE&PoE+ Enable.
	S3230-28TXF-AC	24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply.
	S3230-28TXP-AC	24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One AC Power Supply, PoE&PoE+ Enable.
	S3230-54TXP-AC	48*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One 2*10g extension slot, One AC Power Supply, PoE&PoE+ Enable.
<b>Extension slot</b>		
Extension slot	SM4C-2XGEF	2-port 10G SFP+ extension slot

# Typical Application

## Campus LAN Network



## ISP FTTH Network



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