

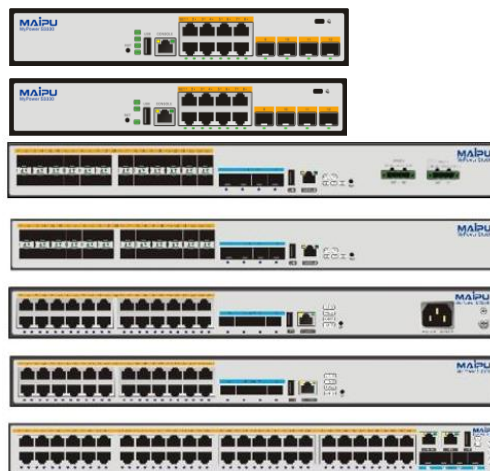
# MyPower S3330 Series Stackable 10G L3 Access Switch Datasheet

## Overview

MyPower S3330 is a high-performance stackable 10G L3 access 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, Static/RIP/OSPF, L2 Multicast, VST stacking enabled and flexible management.

The S3330 series switches can be used as access devices on enterprise branch networks and small&medium-sized campus networks. The switches help build highly reliable enterprise campus networks that are easy to expand and manage.

MyPower S3330 series includes S3330-12TXF-AC, S3330-12TXP-AC, S3330-28TXF-AC, S3330-28TXP-AC, S3330-54TXP, S3330- 28GXF-AC, S3330- 28GXF-DC48 six models.



S3330 Series

S3330-12TXF-AC Provides 8\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Single AC Power Supply.

S3330-12TXP-AC Provides 8\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Single AC Power Supply, PoE&PoE+ Enable.

S3330-28TXF-AC Provides 24\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply.

S3330-28TXP-AC Provides 24\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply, PoE&PoE+ Enable.

S3330-54TXP Provides 48\*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One extension slot, Dual modular AC Power, PoE&PoE+ Enable.

S3330-54TXF-AC Provides 48\*10/100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual modular AC Power.

S3330-28GXF-AC Provides 24\*100/1000M SFP interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply.

S3330-28GXF-DC48 Provides 24\*100/1000M SFP interfaces, Four 10G SFP+ interfaces, Dual DC Input.

## Key Features

### Intelligent VST stacking

S3330 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

S3330 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 S3330 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

S3330 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 S3330 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

S3330 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 S3330				
Frame Model	S3330-12TXF-AC S3330-28TXF-AC S3330-54TXF-AC	S3330-12TXP-AC S3330-28TXP-AC	S3330-28GXF-AC	S3330-28GXF-DC48	S3330-54TXP
<b>Product Configurations</b>					
Device Structure	Desktop				
Physical Port	12/24/48*10/100/1000M electric interfaces, Four/Six 10G SFP+ interfaces.	12/24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces.	24*100/1000M SFP interfaces, Four 10G SFP+ interfaces.	24*100/1000M SFP interfaces, Four 10G SFP+ interfaces.	48*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, One extension slot, PoE&PoE+ Enable.
Extension Slot	N/A				1 extension slot
Memory	256MB Flash, 512MB RAM. 256MB Flash, 1GB RAM(For 54TXF/54TXP only)				
RJ45 Console Port	1				
USB Port	1				
Power Supply	Dual AC (except 12TXF)	Dual AC (except 12TXP)	Dual AC	Dual DC Input	Modular Dual AC
Intelligent Fans	Yes				
<b>Performance Parameters</b>					
Switching capability	96/128/216Gbps	128Gbps	128Gbps	128Gbps	216Gbps
Throughput	71/95.2/160Mpps	95.2Mpps	95.2Mpps	95.2Mpps	160.7Mpps
Jumbo	12K				
VLAN Entry	4K				
MAC Entry	16K(32K for 54TXF)	16K	16K	16K	32K
Routing Entry	496				
ACL Entry	2K				
Packet Buffer	12Mbit				
Anti-static	Yes				
Anti-lightning	Yes				
MTBF	>80000 hours				
<b>Physical Index</b>					
Dimension (W×D×H) (mm)	12TXF :275*230*44.2mm 28/54TXF :442*220*44.2mm	12TXP :275*230*44.2mm 28TXP :442*380*44.2mm	442*320*44.2	442*220*44.2	442mm×420mm×44.2mm
<b>Power Supply</b>					
Power Input	AC 100-240V, 50-60Hz			DC -48V	AC 100-240V, 50-60Hz

Power Consumption (MAX)	≤50W/55W	≤50W	≤75W	≤75	≤55W
POE Power Consumption (MAX)	N/A	54XTP: 380W 12TTP: 125W	N/A	N/A	760W
<b>Environment</b>					
Working Temperature	0°C ~ 50°C				
Humidity	10~90%, non-condensing				
<b>Software Features</b>					
Standard protocol	L2	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 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		
			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 protocol	L3	Routing Protocol	Static route, RIP v1/v2, OSPFv2, Policy Route, VRRP		
		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, 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			

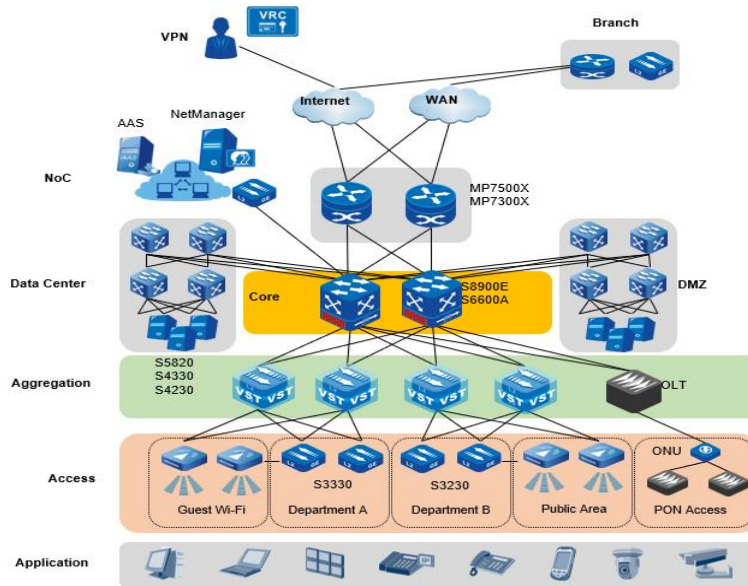
	Congestion Management	SP, RR, WDRR, SP+WRR
	Congestion Avoidance	Tail-drop, RED, WRED
Management	Network Management	SNMP v1/v2/v3, MIB, RMON, SYSLOG, DNS, CLI, Telnet, FTP/TFTP, Debug
	Network Monitoring	SPAN, sFlow, LLDP, IP-SLA Based On ICMP-echo ICMP-path-echo ICMP-path-jitter VoIP jitter UDP echo
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

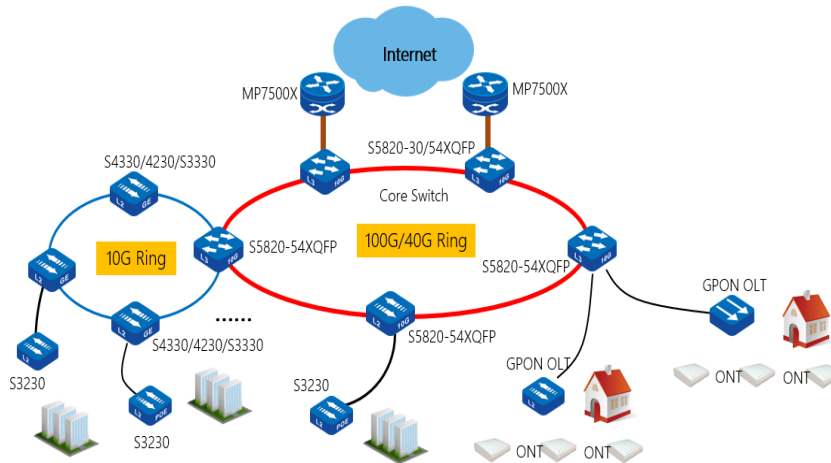
Series	Model	Description
<b>MyPower S3330 Series Host</b>		
MyPower S3330 Series	S3330-12TXF-AC	8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Single AC Power Supply.
	S3330-12TXP-AC	8*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Single AC Power Supply, PoE&PoE+ Enable.
	S3330-28TXF-AC	24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply.
	S3330-28TXP-AC	24*10/100/1000M electric interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply, PoE&PoE+ Enable.
	S3330-28GXF-AC	24*100/1000M SFP interfaces, Four 10G SFP+ interfaces, Dual AC Power Supply.
	S3330-28GXF-DC48	24*100/1000M SFP interfaces, Four 10G SFP+ interfaces, Dual DC Input.
	S3330-54TXP	48*100/1000M SFP interfaces(PoE/PoE+), Four 10G SFP+ interfaces, One extension slot, Dual AC Power Supply.
	S3330-54TXF-AC	48*10/100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power Supply.
<b>Extension slot &amp; Power Module</b>		
Extension Slot	SM4C-2XGEF	2-port-10G(SFP+) Extension slot
Power Module	AD500-1D005E	500W Power Module, 100V-240V(For S3330-54TXP)
<b>Stacking Cable</b>		
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



All rights reserved. Printed in the People's Republic of China.

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise without the prior written consent of Maipu Communication Technology Co., Ltd.

Maipu makes no representations or warranties with respect to this document contents and specifically disclaims any implied warranties of merchantability or fitness for any specific purpose. Further, Maipu reserves the right to revise this document and to make changes from time to time in its content without being obligated to notify any person of such revisions or changes.

Maipu values and appreciates comments you may have concerning our products or this document. Please address comments to:

*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](mailto:overseas@maipu.com)

All other products or services mentioned herein may be registered trademarks, trademarks, or service marks of their respective manufacturers, companies, or organizations.