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IS430 Series

Cloud Managed L3 Aggregation Switch

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Product Overview

The IS430 series switch is a high-performance stackable L3 Aggregation switch developed by Maipu. It is applied in SMB LAN network and easy to deploy Layer2/3 switching solution that offers enhanced security and 10GE uplinks, Static Route/RIP/OSPF/BGP/ISIS, L2/L3 Multicast, VST/M-LAG stacking enabled and comprehensive management methods. The IS430 series switch well meets the comprehensive SMB customer requirements such as branch office, hotel, restaurant, school, logistic, chain store, etc.

Model Name	Specification
IS430-54GXF	 48*1G SFP + 4*10G SFP+ One Extension Slot (2-Port 10G Card) Dual Modular Power Slots RJ45 Console/USB2.0 Port Switching Capacity: 216Gbps
IS430-54GTXF	 32*10/100/1000M Base-T + 16*1G SFP 4*10G SFP+ Dual Modular Power Slots RJ45 Console/USB2.0 Port Switching Capacity: 216Gbps

The IS430 series switch includes IS430-54GXF, IS430-54GTXF.

Key Features

Cloud Management

The IS430 series switch support cloud management by the MMC (Maipu Managed Cloud), the switches can be quickly deployed and configured from the cloud, reducing the installation cost. With cloud management, IT staff can remotely access and manage switches from anywhere with an internet connection, making it easier to troubleshoot.



Intelligent stacking technology

The IS430 series switch is equipped with Maipu VST stacking function that allows devices to be stacked into one logical device via the 10G SFP+ ports. VST (Virtual Switching Technology) stacking combines multiple switches to form a logical virtual switch, improving device and link reliability, network expansion, and simplifying configuration and management.

High availability

The IS430 series switch offers advanced redundancy and reliability features, catering to diverse networking requirements. In addition to supporting traditional spanning tree protocols such as STP, RSTP, and MSTP, the switch also complies with the ITU-T G.8032 international standard. This Ethernet Ring Protection Switching (ERPS) protocol enables rapid 50ms failover within Ethernet ring network topologies, ensuring seamless connectivity and minimal downtime.

Perfect security policy

The IS430 series switch offers a comprehensive suite of security features, including user authentication, port security, ACLs, loopback detection, and 802.1X authentication. It also incorporates IP Source Guard, DHCP/ND Snooping, Host Guard, Dynamic ARP Inspection, and PPPoE+ security mechanisms. These robust security functions ensure user access and network protection.

Advanced QoS

The IS430 series switch offers sophisticated QoS capabilities for optimal network performance. Supporting eight queues per port and advanced scheduling algorithms such as SP, RR, WRR, and WDRR. The switch accommodates diverse priority mapping techniques, including 802.1p, CoS, and DSCP, enabling fine-grained control over traffic classification and prioritization.

Hardware Specifications

Model		IS43	0-54GTXF-AC	IS430-54GXF-AC	
Hardware Speci	fication				
32*10 Physical Traffic Port		16*10	000M Base-T interfaces SFP interfaces SFP+ interfaces	48*1G SFP interfaces 4*10G SFP+ interfaces	
Extension Slot			One	One	
Switching Capabi	lity		216Gbps	216Gbps	
Power Slot			Dual	Dual	
Fixed Fan			Yes	Yes	
Power Consumpt	ion	≤55W		≤55W	
Dimension (W×D	×H)mm	44	2×420×44.2	442×420×44.2	
Physical Manager Port	nent	1*RJ45 Console 1*USB2.0 Port			
Input Voltage			AC:100-240	0V/50-60Hz	
Temperature		Work Temperature: -5°C to 50°C Storage Temperature: -40°C to 70°C			
Humidity	lumidity		Work Humidity:10% ~ 90%, non-condensing Storage Humidity:5% ~ 95%, non-condensing		
Anti-Lightning			61	⟨∨	
Anti-Static		6KV		⟨√	
MTBF		>80000 hours		D hours	
Performance Pa	arameters				
MAC Address En	ntry		32K	32К	
Jumbo Frame		12K		12K	
ARP Entry		8К		8K	
ND Entry		8К		8K	
VLAN Entry		4K		4К	
LACP Group		64		64	
LACP Member in Group		8		8	
MSTP Instance		64		64	
IPv4 Routing Ent	IPv4 Routing Entry		12K	12K	
IPv6 Routing Ent	IPv6 Routing Entry		4K	4К	
L2 Multicast Entr	icast Entry		6K	6К	
L3 Multicast Entry			6K	6К	
VRF Entry		256		256	
VRRP Group	· ·		255	255	
Software Specif	ication				
Interface	Physical	Interface	Auto MDI/MDIX , Port Type I Port Loopback, Port Energy	JNI/NNI, Port Speed, Port MTU, Switch Port, Control	
Logic Int		erface Loopback Interface, Tunnel Interface, Null Interface			

	MAC Address Management	Storm Control, Flood Control, MAC Address Aging Time, Mac Address Learning on off, Mac Address Learning Limitation, Mac Address VLAN Bunding, MAC Debug	
VLAN	VLAN Management	VLAN, QinQ, Flexible QinQ, VLAN PVID, VLAN Tag/Untag, VLAN Trunk, MAC VLAN, Protocol VLAN, Subnet VLAN, Super VLAN, Voice VLAN, Private VLAN, Guest VLAN, VLAN Debug, GVRP, VLAN Isolation	
Ring Protection	Spanning Tree Protocols	STP/RSTP/MSTP, BPDU Guard, Flap Guard, Loop Guard, Root Guard, TC Guard	
	Other Ring Protocols	VIST/VIST+, G.8032(ERPSv1&v2)	
Link Aggregation	LACP Configuration	LACP Link Aggregation, LACP Port Priority, LACP Load Balance, LACP Rate Monitor, LACP Debug	
Error Handling	Error-disable Configuration	Error-disable Based on bpduguard Dai DHCP Snooping Link-Flap Loopback- detect Port Security Storm Control Transceiver Power, Error-disable Recovery	
Fault Detection	Fault Detection Features	ULFD, Track, Loop-back Detection, CFM (802.1ag)	
IP Services	IP Protocol	ARP, DNS, NTP Server/Client, ICMP, ECMP, GRE, IPIP, IPv6 over IPv4, ISATAP, IPv4 over IPv6, IPv6 over IPv6	
	Routing Protocol	Static Routing v4/v6, RIP/RIPng, OSPF v2/v3, BGP/BGP+, ISIS/ISIS v6, VRRP/VRRP v3, VBRP, PBR/PBR v6, IP-VRF	
	DHCP Service	DHCP v4/v6 Server, DHCP v4/v6 Client, DHCP v4/v6 Relay, DHCP Snooping, DHCP Option51/82	
Multicast	L2 Multicast Protocols	IGMPv1/v2/v3 Snooping, IGMP Snooping Proxy, MLD Snooping, MVR, MVP	
Protocols	L3 Multicast Protocols	IGMPv1/v2/v3, PIM v4/v6-SM, PIM v4/v6-SSM, PIM-DM, PIM-SDM,	
QoS	Priority Mapping	802.1P Priority, DSCP priority	
	Traffic Classification	Three Color Marker, Priority Remark, Traffic Redirect, Traffic Meter, Traffic Mirror	
	Traffic Control	Rate Limit, Traffic Shaping	
	Scheduling Algorithm	SP, RR, WRR, WDRR, SP+WRR, SP+WDRR	
	Congestion Management	Tail-drop, RED, WRED	
Security	Port Security	Port Security On aging deny permit violation ACL	
	Network Access Control	IP Source Guard (ISG), DHCP Snooping, ND Snooping, Host Guard	
	Threat Prevention	Dynamic ARP Inspection (DAI), ARP Check, AARF ARP-Guard, ARP Guard, PPPoE+	
	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, Time-based ACL	
	Anti-Attack	Anti-Attack Detect Drop Flood Log, URPF, White List, Black List	
	AAA	AAA, Radius, TACACS+, 802.1x, Portal	
High	Device Virtualization	H-VST, M-VST	
Availability	Multi-Active Detection	MAD LACP, MAD BFD, MAD Fast-Hello, MAD LACP	
	High Availability Protocols	HA, ULFD, UDLD, G.8032, ULPP, Monitor Link, VRRP, VRRPv3, VBRP, EEP, BFD with Static RIP OSPF BGP ISIS	
Configuration and Maintenance	Monitoring and Diagnostics	SPAN, RSPAN, VLAN SPAN, sFlow, Telemetry, LLDP, IP-SLA	
	Device Management	TR069, SNMP v1/v2/v3, MIB, RMON, SYSLOG, WEB(HTTP/HTTPS), CLI, Telnet, FTP/SFTP/TFTP/FTPS, Debug, Telemetry, ISSU, Hot Patch, Keepalive Gateway, Cloud Management	

	Zero Touch Provisioning	ZTP Provisioning Through DHCP Server, ZTP Provisioning Through USB Flash Disk	
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 802.3ah (Ethernet in the First Mile Operations, Administration, and Maintenance) IEEE 802.1x (Port-Based Network Access Control)		
	IEEE 802.3ad (Link Aggregation)		
	IEEE 802.3x (Flow Control) IEEE 802.3az (Energy Efficient Ethernet) IEEE 802.1d (Spanning Tree Protocol)		
	IEEE 802.1ab (Link Layer Di	iscovery Protocol)	
	IEEE 802.1Q (Virtual LAN)		
	IEEE 802.1w (Rapid Spanning Tree Protocol)		
	IEEE 802.1s (Multiple Spanning Tree Protocol)		
	IEEE 802.1p (Class of Service Priority)		
	IEEE 802.1ag (Connectivity Fault Management)		

Order Information

Model		Description
IS430 Series Host		
IS430 Series	IS430-54GXF	48-Port 1G SFP interfaces, 4-Port 10G SFP+ interfaces, One Extension Slot, Dual Power Slots
	IS430-54TGXF	32-Port 10/100/1000M electric interfaces, 16-Port 1G SFP interfaces, 4-Port 10G SFP+ interfaces, One Extension Slot, Dual Power Slots
Power Module		
Power Module	AD120-1S005E	120W AC Power Supply Module
Extension Module		
Extension Module	SM4C-2XGEF	2-Port 10G SFP+ Interfaces Extension Module (Stacking Not Available)
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



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