

NSS3530 Series Stackable L3 MPLS Access Switch Datasheet

Overview

NSS3530 series switch is a high-performance stackable L3 MPLS access routing switch developed by Maipu. It is applied in enterprise campus network and easy to deploy Layer2/3 switching solution that offers 6*10GE uplinks and modular power supply, Static/RIP/OSPF/BGP/ISIS, L2/L3 Multicast, VST/M-LAG stacking enabled and flexible management. NSS3530 series switch can be used as L3 access or aggregation devices on campus networks. The switches help build highly reliable enterprise campus networks that are easy to expand and manage.

NSS3530 series switch includes NSS3530-30TXF, NSS3530-30TXP, NSS3530-54TXF, NSS3530-54TXF, NSS3530-54GXF six models.

Model Name	Specification
NSS3530-30TXF(V1)	 24*10/100/1000M Base-T + 6*10G SFP+ Dual Modular Power Slots RJ45 Console/RJ45 Management/USB2.0 Port Switching Capacity: 168Gbps
NSS3530-54TXF(V1)	 48*10/100/1000M Base-T + 6*10G SFP+ Dual Modular Power Slots RJ45 Console/RJ45 Management/USB2.0 Port Switching Capacity: 216Gbps
NSS3530-30TXP(V1)	 24*10/100/1000M Base-T + 6*10G SFP+ Dual Modular Power Slots 380W/760W PoE/PoE+ Budget RJ45 Console/RJ45 Management/USB2.0 Port Switching Capacity: 168Gbps
NSS3530-54TXP(V1)	 48*10/100/1000M Base-T + 6*10G SFP+ Dual Modular Power Slots 380W/760W/1440W PoE/PoE+ Budget RJ45 Console/RJ45 Management/USB2.0 Port Switching Capacity: 216Gbps

Model Name	Specification
NSS3530-38GTXF(V1)	 24*1G SFP + 8*10/100/1000M Base-T + 6*10G SFP+ Dual Modular Power Slots RJ45 Console/RJ45 Management/USB2.0 Port Switching Capacity: 184Gbps
NSS3530-54GXF(V1)	 48*1G SFP + 6*10G SFP+ Dual Modular Power Slots RJ45 Console/RJ45 Management/USB2.0 Port Switching Capacity: 216Gbps

Key Features

Intelligent Stacking Technology

The NSS3530 series switch is equipped with Maipu VST stacking function that allows a minimum of four 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.

The NSS3530 series switch also support M-LAG, aggregating links of multiple switches to ensure link backup and uninterrupted services during upgrade.

Software Defined Network

The NSS3530 series switch is capable of being managed by Maipu's BD-LAN controller, an integrated SDN platform designed for campus networks. The utilization of software-defined network technologies in this platform simplifies the deployment, management, and security of campus networks, while also enabling network teams to complete the majority of their work directly on the BD-LAN controller platform. When compared with traditional methods, implementing a BD-LAN solution can significantly reduce network deployment times, simplify network maintenance, improve troubleshooting efficiency, and ultimately lead to overall cost savings for customers.

Advanced MPLS Capabilities

The NSS3530 series switch delivers advanced MPLS capabilities, enhancing your network infrastructure with powerful features. These include seamless MPLS VPN deployment for secure and efficient data transmission, MPLS Traffic Engineering for optimized traffic routing, and MPLS Quality of Service (QoS) support for prioritizing critical applications.

Zero Touch Provisioning

The NSS3530 series switch features advanced Zero Touch Provisioning (ZTP) capabilities, streamlining the deployment process for network administrators. With ZTP, the switch can automatically discover and load necessary version files from a file server via a DHCP server or a USB flash disk, eliminating the need for manual intervention during initial setup. This automation reduces configuration errors, accelerates the deployment process, and enhances overall network efficiency, making the NSS3530 series switch an ideal choice for scalable and dynamic network environments.

High Availability

The NSS3530 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.

Furthermore, the NSS3530 series switch incorporates the Virtual Router Redundancy Protocol (VRRP), facilitating uplink backup capabilities. By connecting to multiple aggregation switches via multiple links, the switch significantly enhances access device reliability, promoting network stability and resilience.

Perfect Security Policy

The NSS3530 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.

Additionally, the switch supports MAC+IP+VLAN binding, 802.1X authentication, and countermeasures against network storm, DOS/DDOS, ARP, and protocol packet attacks. This makes the NSS3530 series ideal for large-scale, multi-service, and complex-traffic networks.

Advanced QoS

The NSS3530 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 effectively manages traffic prioritization and resource allocation.

The switch accommodates diverse priority mapping techniques, including 802.1p, CoS, and DSCP, enabling fine-grained control over traffic classification and prioritization. With granular port traffic rate limiting and time-based controls, network administrators can regulate bandwidth usage as needed.

To optimize network performance and minimize congestion, the NSS3530 series switch employs advanced congestion management techniques, such as Tail Drop and RED packet loss algorithms. These mechanisms help maintain seamless network operation while ensuring efficient delivery of critical data.

IPv4&IPv6 Dual-stack Ability

The NSS3530 series switch is built on an IPv4/IPv6 dual-stack platform, delivering hardware-based, wire-speed forwarding for both IPv4 and IPv6 traffic. The switch supports IPv4/IPv6 Layer 3 routing protocols, including RIPng, OSPFv3, BGP4+, and IS-IS for IPv6. These IPv6 capabilities enable seamless deployment on pure IPv4, pure IPv6, or dual-stack networks, facilitating a smooth transition from IPv4 to IPv6 infrastructure.

Rich Network Management

The NSS3530 series switch offers a comprehensive set of management options. These options encompass network management protocols like SNMP and TR-069, configuration and control options like Netconf/Yang and CLI, monitoring and diagnostic tools such as RMON and SYSLOG. These versatile features enable network administrators to effectively manage, monitor, and maintain optimal network performance locally

Free Licensing Policy

Maipu consistently adheres to a "One-time investment" free license policy, ensuring that standard and advanced features are not differentiated across versions. This approach guarantees that customers receive new firmware updates without incurring additional charges. In comparison to other manufacturers, Maipu's free license policy safeguards both short-term and long-term user investments, providing an unparalleled value proposition.

Technical Specifications

Product Model	NSS3530- 30TXF	NSS3530- 30TXP	NSS3530- 54TXF	NSS3530- 54TXP	NSS3530- 38GTXF	NSS3530- 54GXF	
Hardware specification							
Hardware Version	V1	V1	V1	V1	V1	V1	
Physical Ports	24*10/100/10 00M Base-T 6*1/10G SFP+ interfaces	24*10/100/10 00M Base-T 6*1/10G SFP+ interfaces	48*10/100/10 00M Base-T 6*1/10G SFP+ interfaces	48*10/100/10 00M Base-T 6*1/10G SFP+ interfaces	8*10/100/100 0M Base-T 24*1G SFP 6*1/10G SFP+ interfaces	48*1G SFP 6*1/10G SFP+ interfaces	
Power Slot	Dual	Dual	Dual	Dual	Dual	Dual	
Fixed Fan	Fanless	Yes	Yes	Yes	Yes	Yes	
PoE Power Consumption	N/A	380W/760W	N/A	380W/760W/ 1440W	N/A	N/A	
PoE Standard	N/A	IEEE 802.af/at	N/A	IEEE 802.af/at	N/A	N/A	
Power Consumption (Without PoE)	≤37W	≤42W	≤56W	≤54W	≤52W	≤67W	
Dimension (W*D*H)mm	442*320*44.2	442*320*44.2	442*380*44.2	442*380*44.2	442*420*44.2	442*420*44.2	
Physical Management Port	1* RJ45 Console Port 1* DC0 Port 1* USB2.0 Port						
Input Voltage	AC:100V ~ 240V/50Hz ~ 60Hz						
Work Temperature	-5°C to 45°C	-5°C to 45°C -5°C to 50°C					
Storage Temperature	-40°C to 70°C						
Humidity	Work Humidity: $10\% \sim 90\%$, non-condensing Storage Humidity: $5\% \sim 95\%$, non-condensing						
Anti-Lightning	6KV						
Anti-Static	6KV						
MTBF	>100000 hours						
Performance par	Performance parameters						
Switching capacity	168Gbps	168Gbps	216Gbps	216Gbps	184Gbps	216Gbps	
Flash	8GB	8GB	8GB	8GB	8GB	8GB	
RAM	1GB	1GB	1GB	1GB	1GB	1GB	
MAC Address Entry	32K	32K	32K	32K	32K	32K	
Jumbo Frame	12K	12K	12K	12K	12K	12K	
ARP Entry	12K	12K	12K	12K	12K	12K	
ND Entry	6K	6K	6K	6K	6K	6K	
VLAN Entry	4K	4K	4K	4K	4K	4K	

LACP Group	64	64 64 64 64				64	
LACP Member in Group	32	32	32	32	32	32	
MSTP Instance	64	64	64	64	64	64	
IPv4 Routing Entry	12K	12K	12K	12K	12K	12K	
IPv6 Routing Entry	6K	6K	6K	6K	6K	6K	
L2 Multicast Entry	2K	2K	2K	2K	2K	2K	
L3 Multicast Entry	2K	2K	2K	2K	2K	2K	
VRF Entry	1K	1K	1K	1K	1K	1K	
VRRP Group	255	255	255	255	255	255	
Software Specifi	cation						
Interface	Basic Port Configuration Logic Interface	Loopback, Po	Auto MDI/MDIX, Port Type UNI/NNI, Port Speed, Port MTU, Switch Port, Port Loopback, Port Energy Control Loopback Interface, Tunnel Interface, Null Interface, L2/L3 VLAN Interface, L3				
	MAC Address Management	Ethernet Interface, VxLAN Interface Storm Control, Flood Control, MAC Address Aging Time, Mac Address Learning on of Mac Address Learning Limitation, Mac Address VLAN Binding, 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 Age	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, ISA over IPv6, IPv6 over IPv6			4, ISATAP, IPv4			
	Routing Protocol	Static Routing v4/v6, RIP/RIPng, IRMP, 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 Protocols	L2 Multicast Protocols	IGMPv1/v2/v3 Snooping, IGMP Snooping Proxy, MLD Snooping, MVR, MVP					
	L3 Multicast Protocols	IGMPv1/v2/v3, PIM v4/v6-SM, PIM v4/v6-SSM, PIM-DM, PIM-SDM,					
		802.1P Priority, DSCP priority					
QoS	Priority Mapping	802.1P Priorit	y, DSCP priority				
QoS	Priority Mapping Traffic Classification			mark, Traffic Redir	ect, Traffic Meter,	Traffic Mirror	

SP, RR, WRR, WDRR, SP+WRR, SP+WDRR

Scheduling Algorithm

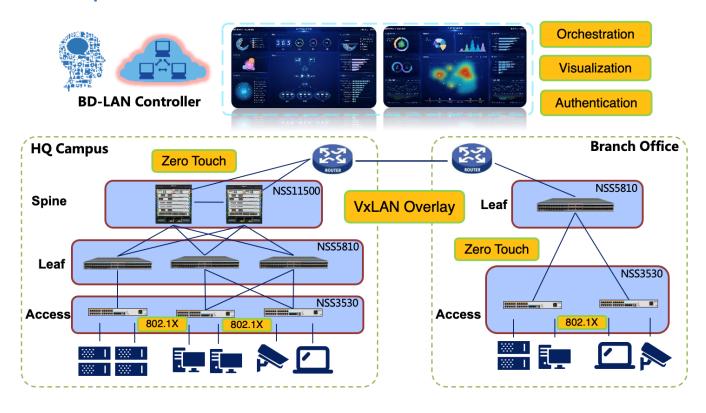
PLS L3 VPN PLS OAM ort Security etwork Access ontrol hreat Prevention ccess Control st nti-Attack AA evice irtualization fulti-Active etection igh availability rotocols conitoring and iagnostics evice evice	LDP, MPLS BGP, MPLS Option-A & Option-B, Multi-VRF MPLS Ping/Traceroute, MPLS QoS, MPLS TE Port Security On aging deny permit violation ACL IP Source Guard(ISG), DHCP Snooping, ND Snooping, Host Guard Dynamic ARP Inspection(DAI), ARP Check, AARF ARP-Guard, ARP Speed Limit, ARP Source Suppression, PPPoE+ 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 Detect Drop Flood Log, URPF, White List, Black List AAA, Radius, TACACS+, 802.1x, Portal H-VST, M-VST, M-LAG MAD LACP, MAD BFD, MAD Fast-Hello HA, ULFD, UDLD, G.8032, ULPP, Monitor Link, Track, VRRP, VRRPv3, VBRP, EEP, BFD with Static RIP OSPF BGP ISIS SPAN, RSPAN, ERSPAN, VLAN SPAN, sFlow, Telemetry, LLDP, IP-SLA		
etwork Access ontrol hreat Prevention ccess Control st nti-Attack AA evice irtualization lulti-Active etection igh availability rotocols onitoring and iagnostics	Port Security On aging deny permit violation ACL IP Source Guard(ISG), DHCP Snooping, ND Snooping, Host Guard Dynamic ARP Inspection(DAI), ARP Check, AARF ARP-Guard, ARP Speed Limit, ARP Source Suppression, PPPoE+ 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 Detect Drop Flood Log, URPF, White List, Black List AAA, Radius, TACACS+, 802.1x, Portal H-VST, M-VST, M-LAG MAD LACP, MAD BFD, MAD Fast-Hello HA, ULFD, UDLD, G.8032, ULPP, Monitor Link, Track, VRRP, VRRPv3, VBRP, EEP, BFD with Static RIP OSPF BGP ISIS		
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ontrol hreat Prevention ccess Control st nti-Attack AA evice irtualization fulti-Active etection igh availability rotocols conitoring and iagnostics	Dynamic ARP Inspection(DAI), ARP Check, AARF ARP-Guard, ARP Speed Limit, ARP Source Suppression, PPPoE+ 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 Detect Drop Flood Log, URPF, White List, Black List AAA, Radius, TACACS+, 802.1x, Portal H-VST, M-VST, M-LAG MAD LACP, MAD BFD, MAD Fast-Hello HA, ULFD, UDLD, G.8032, ULPP, Monitor Link, Track, VRRP, VRRPv3, VBRP, EEP, BFD with Static RIP OSPF BGP ISIS		
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nti-Attack AA evice irtualization ulti-Active etection igh availability rotocols onitoring and iagnostics	Standard Hybrid ACL, Extended Hybrid ACL, Standard IPv6 ACL, Extended IPv6 ACL, Time-based ACL Anti-Attack Detect Drop Flood Log, URPF, White List, Black List AAA, Radius, TACACS+, 802.1x, Portal H-VST, M-VST, M-LAG MAD LACP, MAD BFD, MAD Fast-Hello HA, ULFD, UDLD, G.8032, ULPP, Monitor Link, Track, VRRP, VRRPv3, VBRP, EEP, BFD with Static RIP OSPF BGP ISIS		
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rotocols onitoring and iagnostics	BFD with Static RIP OSPF BGP ISIS		
iagnostics	SPAN, RSPAN, ERSPAN, VLAN SPAN, sFlow, Telemetry, LLDP, IP-SLA		
evice			
anagement	TR069, SNMP v1/v2/v3, MIB, RMON, SYSLOG, WEB(HTTP/HTTPS), CLI, Telnet, FTP/TFTP, Debug, Telemetry, ISSU, Hot Patch, Keepalive Gateway		
ero Touch rovisioning	ZTP Provisioning Through DHCP Server, ZTP Provisioning Through USB Flash Disk		
oftware Defined etworking(SDN)	Netconf/Yang		
IEEE 802.3 (100BASE-T) IEEE 802.3u (1000BASE-X) IEEE 802.3ab (1000BASE-T) 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 802.1d (Spanning Tree Protocol) IEEE 802.1ab (Link Layer Discovery 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)			
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Order Information

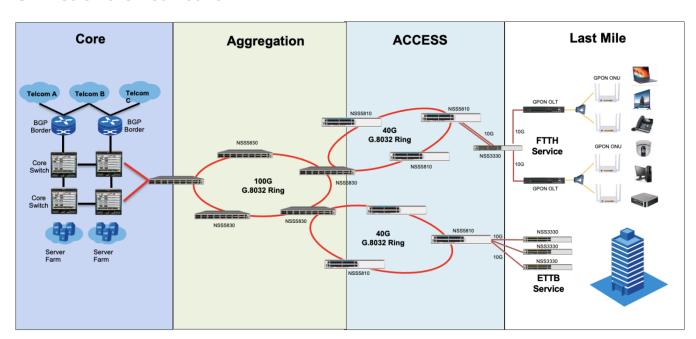
Series	Model	Description			
NSS3530 Series Host					
NSS3530 Series	NSS3530-30TXF	V1 Version: 24*10/100/1000M Base-T interfaces, 6*1/10G SFP+ interfaces Dual Power Supply Slots			
	NSS3530-54TXF	V1 Version: 48*10/100/1000M Base-T interfaces, 6*1/10G SFP+ interfaces, Dual Power Supply Slots			
	NSS3530-30TXP	V1 Version: 24*10/100/1000M Base-T interfaces, 6*1/10G SFP+ interfaces, 380W/760W PoE&PoE+, Dual Power Supply Slots			
	NSS3530-54TXP	V1 Version: 48*10/100/1000M Base-T interfaces, 6*1/10G SFP+ interfaces, 380W/760W/1400W PoE&PoE+, Dual Power Supply Slots			
	NSS3530-38GTXF	V1 Version: 24*1G SFP interfaces, 8*10/100/1000M Base-T interfaces, 6*1/10G SFP+ interfaces, Dual Power Supply Slots			
	NSS3530-54GXF	V1 Version: 48*1G SFP interfaces, 6*1/10G SFP+ interfaces, Dual Power Supply Slots			
Power Module					
Power Module	AD75M-HS0N	75W AC Power Module (For NSS3530-30TXF/54TXF/38GTXF)			
	AD150M-HS0N	150W AC Power Module (For NSS3530-54GXF)			
	AD500-1D005E	500W AC Power Module (For NSS3530-30TXP/54TXP)			
	AD880-1D005E	880W AC Power Supply Module (For NSS3530-54TXP)			
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

SDN Campus LAN Network



ISP Metro Ethernet Network



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Maipu Communication Technology Co., Ltd Maipu Mansion, No.16, Jiuxing Avenue Hi-Tech Zone Chengdu, Sichuan Province P. R. China 610041

Tel: (86) 28-65544850, **Fax:** (86) 28-65544948, **URL:** http:// www.maipu.com **Email:** overseas@maipu.com

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