

MAIPU SDN Security Switch

For a More Secured and More Intelligent Campus Network

CATALOG

Maipu Communication Technology Co., Ltd

Maipu Mansion, No. 16 Jiuxing Avenue, High-tech Park, Chengdu, Sichuan, P.R.China, 610041

Tel : +86-28-65544850

Web : www.maipu.com

E-mail : overseas@maipu.com

MAIPU

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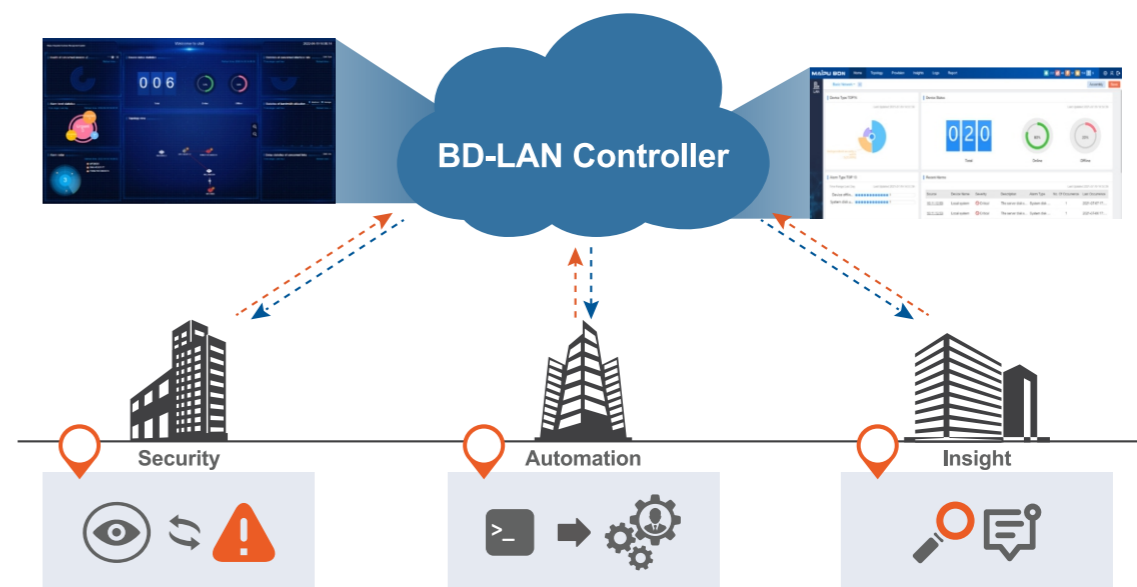
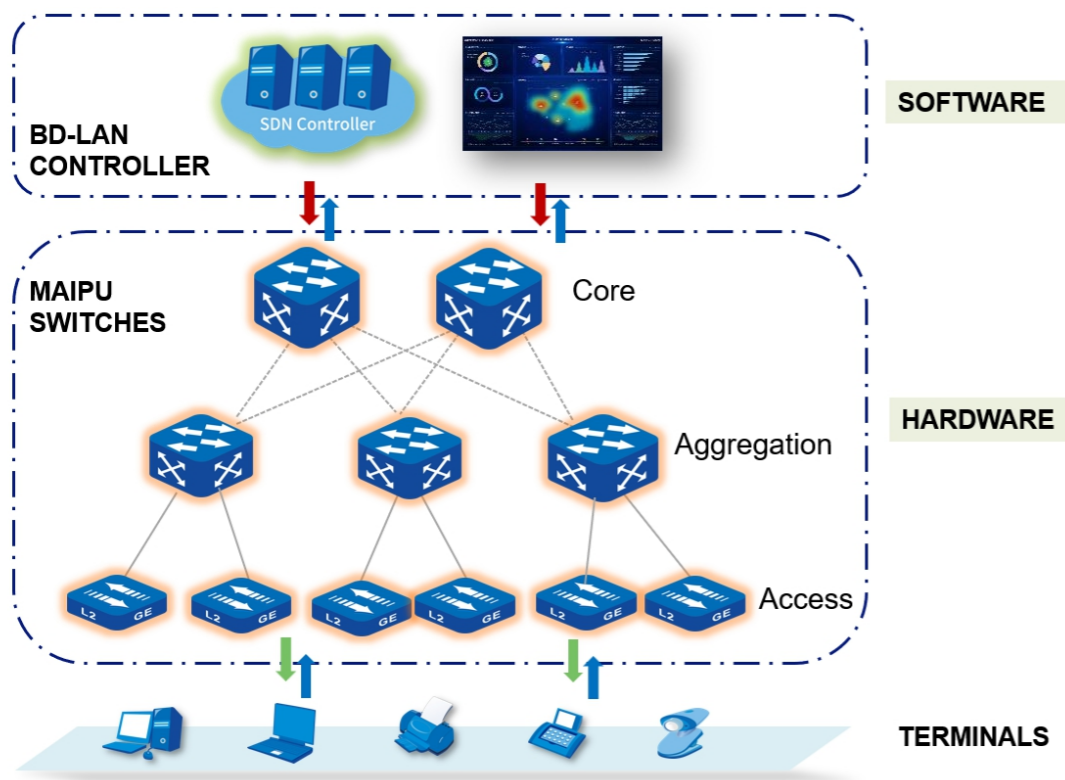
Maipu SDN Security Switch

Overview

Maipu SDN security solution is an integrated solution which includes Maipu SDN controller and Maipu SDN security switches. This solution greatly enhances internal campus network security by continuous monitoring and auto-blocking the abnormal terminal's network access. This would stop the potential virus spread or network attack from inside at the early stage. It earns more time for IT engineers to fix the vulnerability before it affects more terminals in the network.

Not just security concerned, Maipu SDN security solution provides automation and insights for the whole network also. The automation helps reduce most of the traditional human errors via CLI commands, with just some simple clicks on the WEB GUI. This system also gives a full-dimension network insights by providing traffic monitoring, different types of network and terminal statistics, IP & assets management and so on.

Architecture

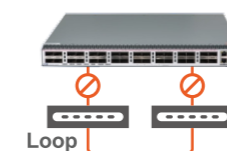


Secure Your Network Everywhere



Zero Trust Network Security

All terminals connected should be authenticated and authorized before they can access their network resources. All others which have no valid auth will be blocked to prevent security threats caused internally.



Preventing Loops in the Network

The switch can quickly detect and prevent the loop in the network. A loop warning will also be vividly shown on the Web GUI's virtual switch panel.



Segment Services for a Safer Network

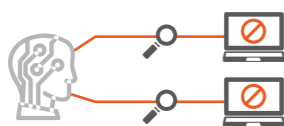
By segmenting services into different networks, each network is independently running and the potential influence between services will be mostly avoided.



Multi-factor Access Policy Control

Terminal credentials will be combined with the available access resources, the valid access time range and the permitted locations. This helps control the access privilege more accurately and flexibly.

Automate Your Network



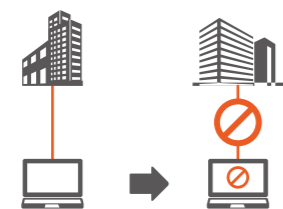
Anomaly Detection & Auto Defense

Network traffic anomaly from any terminal can be soon detected. Then, email notification, SMS, or sound alarm will immediately be triggered to get administrator's attention for such event.



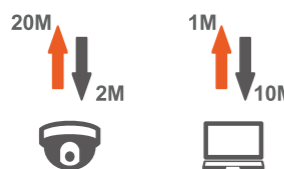
Third-party UTM Interoperability

If there is UTM existed in your network already, our SDN controller can work with your UTM to accurately secure the whole network and take actions by the syslog shared from UTM.



Terminal Migration Control

The SDN security solution can smartly control the terminal's access privilege even when it moves to another network area. Wherever the terminals are connected from, they always get their corresponding authorized resources only. This improves users' mobility and avoids the unauthorized access.



QoS For Improved Network Service Experience

Maximize the efficiency of your network resource by precisely allocating the upload and download bandwidth for each terminal device.



Zero Touch Provisioning

Simply power on the device and the first stage configurations will be automatically obtained, either from ZTP DHCP process, or from a directly connected USB Flash Drive.



Auto Service Configuration

Say goodbye to the traditional complicated CLI commands. Now you just need to design your network services and policies on the Controller Web UI, then all the configurations related will be automatically generated and implemented to the corresponding network nodes.



One-Click Replacement

No need for engineers to go to customer site for device replacement. You can simply apply all the same configurations to the new switch on the Web UI instantly.



Scheduled Firmware Upgrade / Configuration Backup

All devices' firmware upgrade and configuration backup can be done automatically at a specific time point. You can also set the baseline rule to make sure the firmwares or config files are the ones required.



Fast Terminal Access Grant

Your to-be-authenticated terminals can be scanned and then be granted access authorization by simply choosing from the result list and validate them.

Visualize Your Network



Network Traffic Insights

Know your network bandwidth usage and your terminals application distributed by network devices.

IP Address	Status	Vendor	Model
192.168.1.1	Available	H3C	MSR2020-E
192.168.1.2	Used	H3C	MSR2020-E
192.168.1.3	Available	H3C	MSR2020-E
192.168.1.4	Used	H3C	MSR2020-E
192.168.1.5	Available	H3C	MSR2020-E

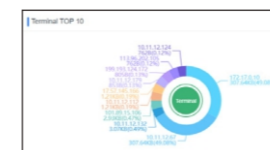
IP Management

All the IP addresses are automatically collected from the network devices and are presented with a clear graphic, showing what are used and what are still available.

Category	Count
Total Assets	22
Stock Quantity	0
Online Assets	7
Offline Assets	15

Assets Management

All your IT devices such as switches, IP cameras, printers and IP phones, can be collected and located. Besides, you can check the detailed status like online/offline status, model, vendor, MAC/IP, port connected, maintenance expiry date and so on.



Rich Reports

Easily export different types of reports, including compliance statistics, device statistics, terminal statistics and security statistics.

S3230 & S3330 Gigabit L3 Lite Access Switch



Gigabit Downlink	4/6*10G SFP+ Uplink	Non-Stopping PoE+	IPDD PoE Detection	VST Stacking M-LAG	sFlow	SDN Ready
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Model	Interface				PoE/PoE+		Power Supply			Height	
	GE Base-T	GE SFP	10GE SFP+	10GE Expansion Slot	PoE Ports	Maximum PoE Budget	Single Power (Fixed)	Dual Power (Fixed)	Dual Power (Modular)		
PoE+ Models	S3230-28TXP-AC	24	-	4	-	24	380W	Yes	-	-	1 U
	S3230-54TXP-AC	48	-	4/6	1	48	760W	Yes	-	-	1 U
	S3330-12TXP-AC	8	-	4	-	8	120W	Yes	-	-	1 U
	S3330-28TXP-AC	24	-	4	-	24	380W	-	Yes	-	1 U
	S3330-54TXP	48	-	4/6	1	48	760W	-	-	Yes	1 U
Standard Models	S3230-28TXF-AC	24	-	4	-	-	-	Yes	-	-	1 U
	S3230-54TXF-AC	48	-	6	-	-	-	Yes	-	-	1 U
	S3330-12TXF-AC	8	-	4	-	-	-	Yes	-	-	1 U
	S3330-28TXF-AC	24	-	4	-	-	-	-	Yes	-	1 U
	S3330-54TXF-AC	48	-	6	-	-	-	-	Yes	-	1 U
Fiber Models	S3330-28GXF-AC	-	24	4	-	-	-	-	Yes	-	1 U
	S3330-28GXF-DC48	-	24	4	-	-	-	Yes	-	-	1 U

Modular Power

■ 500W Power Module for S3330-54TXP

Model	Description
AD500-1D005E	500W AC Power Module



Expansion Card

■ Suitable for S3230-54TXP/S3330-54TXP

Model	Description
SM4C-2XGEF	2-Port 10G SFP+ Expansion Module



Stacking Cable

■ Suitable for all S3230&S3330 series

Model	Description
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



S4230 & S4330 Gigabit L3 Access Switch



Gigabit Downlink	4/6*10G SFP+ Uplink	Non-Stopping PoE+	IPDD PoE Detection	VST Stacking M-LAG	sFlow	SDN Ready
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Model	Interface				PoE/PoE+		Power Supply			Height	
	GE Base-T	GE SFP	10GE SFP+	10GE Expansion Slot	PoE Ports	Maximum PoE Budget	Single Power (Fixed)	Dual Power (Fixed)	Dual Power (Modular)		
PoE+ Models	S4330-30TXP	24	-	4/6	1	24	760W	-	-	Yes	1 U
	S4330-54TXP	48	-	4/6	1	48	760W	-	-	Yes	1 U
Standard Models	S4230-30TXF-AC	24	-	6	-	-	-	-	Yes	-	1 U
	S4230-54TXF-AC	48	-	6	-	-	-	-	Yes	-	1 U
	S4330-30TXF	24	-	4/6	1	-	-	-	-	Yes	1 U
	S4330-54TXF	24	-	4/6	1	-	-	-	-	Yes	1 U
	S4330-54TXF	24	-	4/6	1	-	-	-	-	Yes	1 U
Fiber Models	S4230-36GTXF-AC	8	24	4	-	-	-	-	Yes	-	1 U
	S4230-36GTXF-DC48	8	24	4	-	-	-	Yes	-	-	1 U
	S4330-54GXF	-	48	4/6	1	-	-	-	-	Yes	1 U
	S4330-54TGXF	32	16	4/6	1	-	-	-	-	Yes	1 U
	S4330-54TGXF	32	16	4/6	1	-	-	-	-	Yes	1 U

Modular Power

■ Modular Power for S4330 Series ■ 120W Power for Non-PoE Models ■ 500W Power for PoE Models

Model	Description
AD120-1S005E	120W AC Power Supply Module(For Non-POE)
DD250-5D005E	120W DC Power Supply Module(For Non-POE)
AD500-1D005E	500W AC Power Supply Module(For POE)



Expansion Card

■ Suitable for S4330 Series

Model	Description
SM4C-2XGEF	2-Port 10G SFP+ Expansion Module



Stacking Cable

■ Suitable for all S4230&S4330 series

Model	Description
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



NSS3330 Gigabit L3 Lite Access Switch



Gigabit Downlink 6*10G SFP+ Uplink VST Stacking M-LAG sFlow SDN Ready

Model	Interface		Power Supply			Height	
	GE Base-T	10GE SFP+	Single Power (Fixed)	Dual Power (Fixed)	Dual Power (Modular)		
Standard Models	NSS3330-28TXF-AC	24	6	-	Yes	-	1 U
	NSS3330-54TXF-AC	48	6	-	Yes	-	1 U

Stacking Cable

■ Suitable for all NSS3330 series

Model	Description
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

NSS4330 Gigabit L3 Access Switch



Gigabit Downlink 10G/40G uplink Non-Stopping PoE+ IPDD Smart PoE VST Stacking M-LAG MPLS L3 VPN VXLAN/EVPN sFlow SDN Ready

Model	Interface				PoE/PoE+		Power	Height	FAN Slot	
	GE Base-T	GE SFP	10GE SFP+	10GE/40GE Expansion Slot	PoE Ports	Maximum PoE Budget				
PoE+ Models	NSS4330-56TXP	48	-	6	1	48	760W	Yes	1 U	-
Standard Models	NSS4330-32TXF	24	-	6	1	-	-	Yes	1 U	-
	NSS4330-36TXF	24	-	4	2	-	-	Yes	1 U	2
	NSS4330-56TXF	48	-	6	1	-	-	Yes	1 U	-
	NSS4330-60TXF	48	-	4	2	-	-	Yes	1 U	2
Fiber Model	NSS4330-36GXF	-	24	4	2	-	-	Yes	1 U	-
	NSS4330-60GXF	-	48	4	2	-	-	Yes	1 U	-

Modular Power

■ Modular Power for NSS4330 Series

Model	Description
AD120-1S005E	120W AC Power Supply Module(For 32TXF/56TXF)
AD500-1D005E	500W AC Power Supply Module(For 56TXP)
AD120M-HS0N	120W AC Power Supply Module(For 36GXF)
DD250M-5S0N	250W DC Power Supply Module(For 36GXF)
AD250-1S005E-B	250W AC Power Supply Module(For 60GXF)
DD500M-5S0B	500W DC Power Supply Module(For 60GXF)

Expansion Card

■ Suitable for NSS4330 Series

Model	Description
NM4A-2QXGEF	2-Port 40G QSFP+ Card
NM4A-4XGEF	4-Port 10G SFP+ Card

FAN Module

■ Suitable for NSS4330 Series

Model	Description
FAN-01F-01B	Fan module (for NSS4330-36TXF/60TXF)

Stacking Cable

■ Suitable for all NSS4330 series

Model	Description
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

NSS5810 10G L3 Aggregation Switch



1G/10G SFP+ downlink 40G/100G Uplink VST Stacking M-LAG MPLS L3 VPN VXLAN/EVPN sFlow SDN Ready

Model	Interface					Power Supply	FAN	Height
	1G RJ45	10GE SFP+	25GE SFP28	40GE QSFP+	100GE QSFP28			
NSS5810-50TXFP	24	18	8	-	-	2	-	1 U
NSS5810-26XF	-	24	-	2	-	2	2	1 U

Modular Power

■ Suitable for NSS5810 series

Model	Description
AD120-1S005E	120W AC Power Supply Module (For NSS5810-50TXFP)
AD120M-HSON	120W AC Power Supply Module (For NSS5810-26XF)

Expansion Card

■ Suitable for NSS5810-26XF

Model	Description
FAN-01C-01B	Fan module (for NSS5810-26XF)

Stacking Cable

■ Suitable for all NSS4330 series

Model	Description
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
QSFP-STACK-10	High speed stacking cable, QSFP+ to QSFP+, 40Gbps, L=1.0m
QSFP-STACK-30	High speed stacking cable, QSFP+ to QSFP+, 40Gbps, L=3.0m
QSFP-STACK-50	High speed stacking cable, QSFP+ to QSFP+, 40Gbps, L=5.0m

NSS6600 40G L3 Distribution Switch



Gigabit Downlink 10G SFP+ uplink 40G QSFP+ uplink Full Redundant design VST Stacking sFlow MPLS L3 VPN VXLAN/EVPN SDN Ready

Model	Switching Capacity	Control Engine Slots	Switching Fabric Slots	Line Card Slots	Power Slots	Fan Slots	Height
NSS6600-04	1Tbps	2	-	4	2	1	5
NSS6600-06	2Tbps	2	2	4/6	4	2	11

Control Engine



Model	Description
NSM66-MPUB	Control Engine For NSS6600-04
NSM66-MPUC	Control Engine For NSS6600-06

Control Engine



Model	Description
NSM66-SFUA	Standard Switching Fabric for NSS6600-06
NSM66-SFUB	Enhanced Switching Fabric for NSS6600-06

Line Card For NSS6600-04

Model	Description
NSM66-16XGEF-EA	16-port 10G SFP+ optical interface
NSM66-24GET24GEF4XF-EA	24-port 1000M Base-T electric interface, 24-port 1000M SFP optical interface, 4-port 10G SFP+ optical interface
NSM66-48GEF4XGEF-EA	48-port 1000M SFP optical interface, 4-port 10G SFP+ optical interface
NSM66-48GET4XGEF-EA	48-port 1000M Base-T electric interface, 4-port 10G SFP+ optical interface



Line Card For NSS6600-06

Model	Description
NSM66-8QXGE-EB	8-port 40G QSFP+ optical interface (SM66A-SFUF is mandatory)
NSM66-32XGEF-EB	32-port 10G SFP+ optical interface (SM66A-SFUF is mandatory)
NSM66-16XGEF-EB	16-port 10G SFP+ optical interface
NSM66-24GET24GEF4XF-EB	24-port 1000M Base-T electric interface, 24-port 1000M SFP optical interface, 4-port 10G SFP+ optical interface
NSM66-48GEF4XGEF-EB	48-port 1000M SFP optical interface, 4-port 10G SFP+ optical interface
NSM66-48GET4XGEF-EB	48-port 1000M Base-T electric interface, 4-port 10G SFP+ optical interface



Interface Density

Model	GE Base-T	GE SFP	10GE SFP+	40GE QSFP+
NSS6600-04	192	192	64	-
NSS6600-06	192	192	128	32

Power Module

Model	Description
AD500M-HS0F	AD500M-HS0F,500W AC power module for NSS6600-04
AD800-1D005M	AD800-1D005M, 800W AC power module for NSS6600-06
AD1600-1D005M	AD1600-1D005M,1600W AC power module for NSS6600-06



FAN Module

Model	Description
FAN-05C-01B	FAN-05C-01B Fan Module For NSS6600-04
FAN-11A-01	FAN-11A-01 Fan Module For NSS6600-06

Stacking Cable

Model	Description
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
QSFP-STACK-10	High speed stacking cable, QSFP+ to QSFP+,40Gbps, L=1.0m
QSFP-STACK-30	High speed stacking cable, QSFP+ to QSFP+,40Gbps, L=3.0m
QSFP-STACK-50	High speed stacking cable, QSFP+ to QSFP+,40Gbps, L=5.0m

NSS5830/NSS5930/NSS5950 100G Data Center TOR Switch



10G SFP+ downlink	25G SFP+ downlink	100G QSFP28 Uplink	VST Stacking M-LAG	MPLS L3 VPN	VXLAN/EVPN	Flexible IPFIX	SDN Ready
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Model	Interface				Power Supply	FAN	Height
	10G Base-T	10G SFP+	25G SFP28	100GE QSFP28	Dual Power (Modular)	Dual FAN (Modular)	
NSS5830-54XTQFP	48	-	-	6	2	5	1 U
NSS5830-56XQFP	-	48	-	8	2	5	1 U
NSS5930-56SQFP	-	-	48	8	2	5	1 U
NSS5950-32QFP	-	-	-	32	2	6	1 U

Modular Power

■ Suitable for NSS5830|5930|5950 series

Model	Description
AD550M-HV0B	AC input 100-240VAC/7A, 550W, output 12V_45A, current sharing, supporting hot-swap.
DD800M-5V0B	DC input -40--72V,25A, 800W, output 12V/64A, current sharing, supporting hot-swap.

Expansion Card

■ Suitable for NSS5830|5930|5950 Series

Model	Description
FAN-01E-01B	Modular Fan Slot, Hot-swappable, front in rear out

Stacking Cable

■ Suitable for NSS5830|5930|5950 series

Model	Description
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
QSFP28-STACK-30	High speed stacking cable, QSFP28 to QSFP28,100Gbps, L=3.0m

NSS18500 100G L3 Data Center Core Switch



1G&10G Downlink	40G/100G Uplink	400G Upgradeable	Full Redundant Design	VST Stacking M-LAG	Flexible IPFIX	MPLS L3 VPN	VXLAN/EVPN	SDN Ready
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Model	Switching Capacity	Control Engine Slots	Switching Fabric Slots	Line Card Slots	Power Slots	Fan Slots	Height
NSS18500-04	25.6Tbps	2	6	4	4	2	6
NSS18500-08	51.2Tbps	2	6	8	8	2	15

Control Engine

Model	Description
NSM185-MPUA	Control Engine for NSS18500-04
NSM185-MPUB	Control Engine for NSS18500-08



Switching Fabric

Model	Description
NSM185-SFUA-EX	NSM185-SFUA-EX Advanced Switching Engine, for NSS18500-04
NSM185-SFUA	NSM185-SFUA Standard Switching Engine, for NSS18500-04
NSM185-SFUC-EX	NSM185-SFUC-EX Advanced Switching Engine, for NSS18500-08
NSM185-SFUC	NSM185-SFUC Enhanced Switching Engine, for NSS18500-08
NSM185-SFUB	NSM185-SFUB Standard Switching Engine, for NSS18500-08



Line Card

Model	Description
NSM185-12QFP-DA	12-port 100GE QSFP28 interface line card
NSM185-24QFP-DA	24-port 100GE QSFP28 interface line card
NSM185-36QFP-DA	36-port 100GE QSFP28 interface line card
NSM185-16QXGE-DA	16-port 40GE QSFP+ interface line card
NSM185-34QXGE-DA	34-port 40GE QSFP+ interface line card
NSM185-48XGEF2QXGE-DA	48-port 10GE SFP+ interface, 2-port 40GE QSFP+ interface line card
NSM185-48GET4XGEF-DA	48-port 1G Base-T electrical interface, 4-port 10GE SFP+ interface line card



Interface Density

Model	GE Base-T	GE SFP	10GE SFP+	40GE QSFP+	100GE QSFP28
NSS18500-04	192	192	192	144	144
NSS18500-08	384	384	384	288	288

Power Module

Model	Description
AD800-1D005M	800W AC power module
DD1600M-5V1F	1600W DC power module



FAN Module

Model	Description
FAN-06A-01B	FAN-06A-01B Fan module for NSS18500-04
FAN-15B-01B	FAN-15B-01B Fan module for NSS18500-08

Stacking Cable

Model	Description
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
QSFP-STACK-10	High speed stacking cable, QSFP+ to QSFP+,40Gbps, L=1.0m
QSFP-STACK-30	High speed stacking cable, QSFP+ to QSFP+,40Gbps, L=3.0m
QSFP-STACK-50	High speed stacking cable, QSFP+ to QSFP+,40Gbps, L=5.0m
QSFP28-STACK-30	High speed stacking cable, QSFP28 to QSFP28,100Gbps, L=3.0m

Maipu Switch Product Family Overview

S3230 Series(4 models)

Stackable L3 Lite Access Switch

10G SFP+ Uplinks

Fixed Single Power Supply

Static Routing Protocol

L2 Multicast Features

VST/M-LAG Stacking

BDLAN Controller Management



S3330 Series(8 models)

Stackable L3 Lite Access Switch

10G SFP+ Uplinks

Redundant Fixed Power Supply

Static/RIP/OSPF Routing Protocol

L2 Multicast Features

VST/M-LAG Stacking

BDLAN Controller Management



S4230 Series(4 models)

Stackable L3 Access Switch

10G SFP+ Uplinks

Redundant Fixed Power Supply

Static/RIP/OSPF/BGP/ISIS Routing Protocol

L2&L3 Multicast Features

VST/M-LAG Stacking

BDLAN Controller Management



S4330 Series(6 models)

Stackable L3 Access Switch

10G SFP+ Uplinks

Redundant Modular Power Supply

Static/RIP/OSPF/BGP/ISIS Routing Protocol

L2&L3 Multicast Features

VST/M-LAG Stacking

BDLAN Controller Management



NSS3330 Series(2 models)

Enterprise L3 Lite Access Switch

10G SFP+ Uplinks

Redundant Fixed Power Supply

Static/RIP/OSPF Routing Protocol

L2 Multicast Features

VST/M-LAG Stacking

BDLAN Controller Management



NSS4330 Series(8 models)

Enterprise Distribution Switch

Hot Swapping of All Modules

1G/10G/40G interface

Static/RIP/OSPF/BGP/ISIS Routing Protocol

L2&L3 Multicast Features

VST/M-LAG Stacking

MPLS L3 VPN

VxLAN/EVPN

BDLAN Controller Management



NSS5810 Series(2 models)

Enterprise Distribution Switch

Hot Swapping of All Modules

1G/10G/40G interface

Static/RIP/OSPF/BGP/ISIS Routing Protocol

L2&L3 Multicast Features

VST/M-LAG Stacking

MPLS L3 VPN

VxLAN/EVPN

BDLAN Controller Management



Maipu Switch Product Family Order Information

S3230 Series	
S3230-28TXF-AC	24 100/1000M electric interfaces, four 10G SFP+ interfaces, One AC Power
S3230-54TXF-AC	48 100/1000M electric interfaces, six 10G SFP+ interfaces, One AC Power
S3230-28TXP-AC	24 100/1000M electric interfaces, four 10G SFP+ interfaces, 380W PoE&PoE+, One AC Power
S3230-54TXP-AC	48 100/1000M electric interfaces, four 10G SFP+ interfaces, One Extension Slot, 760W PoE&PoE+, One AC Power
S3330 Series	
S3330-12TXF-AC	8 100/1000M electric interfaces, four 10G SFP+ interfaces, One AC Power
S3330-12TXP-AC	8 100/1000M electric interfaces, four 10G SFP+ interfaces, 120W PoE&PoE+, One AC Power
S3330-28TXF-AC	24 100/1000M electric interfaces, four 10G SFP+ interfaces, Dual AC Power
S3330-28TXP-AC	24 100/1000M electric interfaces, four 10G SFP+ interfaces, 380W PoE&PoE+, Dual AC Power
S3330-54TXF-AC	48 100/1000M electric interfaces, six 10G SFP+ interfaces, Dual AC Power
S3330-28GXF-AC	24 1000M SFP fiber interfaces, four 10G SFP+ interfaces, Dual AC Power
S3330-28GXF-DC48	24 1000M SFP fiber interfaces, four 10G SFP+ interfaces, One DC Dual Input Power
S3330-54TXP	48 100/1000M electric interfaces, four 10G SFP+ interfaces, PoE&PoE+, One Extension Slots, Dual Power Slots
Power Module	
AD500-1D005E	500W AC Power Supply Module(For POE)
S4230 Series	
S4230-30TXF-AC	24 100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power
S4230-54TXF-AC	48 100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power
S4230-36GTXF-AC	24 1000M SFP interfaces, 8 100/1000M electric interfaces, four 10G SFP+ interfaces, Dual AC Power
S4230-36GTXF-DC48	24 1000M SFP interfaces, 8 100/1000M electric interfaces, four 10G SFP+ interfaces, Dual DC Input
S4330 Series	
S4330-30TXF	24 100/1000M electric interfaces, four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots
S4330-54TXF	48 100/1000M electric interfaces, four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots
S4330-30TXP	24 100/1000M electric interfaces, four 10G SFP+ interfaces, One Extension Slot, PoE&PoE+ Enable, Dual Power Slots
S4330-54TXP	48 100/1000M electric interfaces, four 10G SFP+ interfaces, One Extension Slot, PoE&PoE+ Enable, Dual Power Slots
S4330-54GXF	48 100/1000M SFP interfaces, four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots
S4330-54TGXF	32 100/1000M electric interfaces, 16 100/1000M SFP interfaces, four 10G SFP+ interfaces, One Extension Slot, Dual Power Slots
Extension Module	
SM4C-2XGEF	2-Port 10G Extension Module, stacking not available
Power Module	
AD120-1S005E	120W AC Power Supply Module(For Non-POE)
AD500-1D005E	500W AC Power Supply Module(For POE)

DD250-5D005E	120W DC Power Supply Module(For Non-POE)
NSS3330 Series	
NSS3330-30TXF-AC	24 100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power
NSS3330-54TXF-AC	48 100/1000M electric interfaces, Six 10G SFP+ interfaces, Dual AC Power
NSS4330 Series	
NSS4330-32TXF	24 100/1000M electric interfaces, Six 10G SFP+ interfaces, One Expansion Slot, Dual Power Slots
NSS4330-36TXF	V3 Version: 24*100/1000M Base-T interfaces, 4*10G SFP+ interfaces, Dual Extension Slots, Dual FAN Slots, Dual Power Slots.
NSS4330-60TXF	V3 Version: 48*100/1000M Base-T interfaces, 4*10G SFP+ interfaces, Dual Extension Slots, Dual FAN Slots, Dual Power Slots.
NSS4330-56TXF	48 100/1000M electric interfaces, Six 10G SFP+ interfaces, One Expansion Slot, Dual Power Slots
NSS4330-56TXP	48 100/1000M electric interfaces, Six 10G SFP+ interfaces, One Expansion Slot, PoE&PoE+ Enable, Dual Power Slots
NSS4330-36GXF	24 1000M SFP interfaces, Four 10G SFP+ interfaces, Two Expansion Slots, Dual Power Slots
NSS4330-60GXF	48 1000M SFP interfaces, Four 10G SFP+ interfaces, Two Expansion Slots, Dual Power Slots
FAN Module	
FAN-01F-01B	FAN-01F-01B FAN Module
Extension Module	
NM4A-4XGEF	4-Port 10G SFP+ Card
NM4A-2QXGEF	2-Port 40G QSFP+ Card
Power Module	
AD120-1S005E	120W AC Power Supply Module(For Non-POE)
AD500-1D005E	500W AC Power Supply Module(For POE)
NSS5810 Series	
NSS5810-50TXFP	24 100/1000M electric interfaces, 18*1G/10G SFP+ interfaces, 8*10G/25G SFP28 interfaces, Dual Power Slots
AD120-1S005E	AD120-1S005E, 120W AC Power Supply Module, input 100-240V
NSS5810-26XF	24-Port 10G SFP+ interfaces, 2-Port 40G QSFP interfaces, Dual Fan Slots, Dual Power Slots
FAN-01C-01B	FAN-01C-01B Fan Module For NSS5810-26XF
AD120M-HS0N	AD120M-HS0N, 120W AC Power Supply Module, input 100-240V
NSS5830 Series	
NSS5830-54XTQFP	48-Port 10G RJ45 electrical interfaces, 6-Port 100G QSFP28 interfaces, 5 Fan Slot, Dual Power Slots
NSS5830-56XQFP	48-Port SFP+ interfaces, 8-Port 100G QSFP28 interfaces, 5 Fan Slot, Dual Power Slots
FAN-01E-01B	FAN-01E-01B, Modular Fan Slot, Hot-swappable, front in rear out
AD550M-HV0B	AC input 100-240VAC/7A, 550W, output 12V_45A, current sharing, supporting hot-swap.
DD800M-5V0B	DC input -40-72V, 25A, 800W, output 12V/64A, current sharing, supporting hot-swap.

NSS5930 Series	
NSS5930-56SQFP	48-Port 25G SFP28 interfaces, 8-Port 100G QSFP28 interfaces, 5 Fan Slot, Dual Power Slots
FAN-01E-01B	FAN-01E-01B, Modular Fan Slot, Hot-swappable, front in rear out
AD550M-HV0B	AC input 100-240VAC/7A, 550W, output 12V_45A, current sharing, supporting hot-swap.
DD800M-5V0B	DC input -40--72V,25A, 800W, output 12V/64A, current sharing, supporting hot-swap.

NSS5950 Series	
NSS5950-32QFP	32-Port 100G QSFP28 interfaces, 6 Fan Slot, Dual Power Slots
FAN-01E-01B	FAN-01E-01B, Modular Fan Slot, Hot-swappable, front in rear out
AD550M-HV0B	AC input 100-240VAC/7A, 550W, output 12V_45A, current sharing, supporting hot-swap.
DD800M-5V0B	DC input -40--72V,25A, 800W, output 12V/64A, current sharing, supporting hot-swap.

NSS6600 Series	
NSS6600-04 Chassis	
NSS6600-04	NSS6600-04 chassis, two control engine slots, four service slots, one fan slot, two power slots.
Control Engine	
NSM66-MPUB	NSM66-MPUB Control Engine, supporting active/standby backup function (one is mandatory, 1+1 redundancy is optional) For NSS6600-04
Power Module	
AD500M-HS0F	AD500M-HS0F,500W AC power module
Fan Module	
FAN-05C-01B	FAN-05C-01B Fan Module For S6600A-04

Line Card	
NSM66-16XGEF-EA	16-port 10G SFP+ optical interface
NSM66-24GET24GEF4XF-EA	24-port 1G Base-T electric interface, 24-port 1G SFP optical interface,4-port 10G SFP+ optical interface
NSM66-48GEF4XGEF-EA	48-port 1G SFP optical interface,4-port 10G SFP+ optical interface
NSM66-48GET4XGEF-EA	48-port 1G Base-T electric interface,4-port 10G SFP+ optical interface

NSS6600-06 Chassis	
NSS6600-06	NSS6600-06 chassis, two control engine slots, two switching fabric slots, four service slots, two fan slot, four power slots.
Control Engine	
NSM66-MPUC	NSM66-MPUC Control Engine, supporting active/standby backup function (one is mandatory, 1+1 redundancy is optional) For NSS6600-06
Switching Engine	
NSM66-SFUA	NSM66-SFUA Standard Switching Engine, supporting active/standby backup function (one is mandatory, 1+1 redundancy is optional)
NSM66-SFUB	ISM66-SFUB Enhanced Switching Engine, supporting active/standby backup function (one is mandatory, 1+1 redundancy is optional)

Line Card	
NSM66-24GET24GEF4XF-EB	24-port 1000M Base-T electric interface, 24-port 1000M SFP optical interface,4-port 10G SFP+ optical interface(Note:Configure with 2*NSM66-SFUA)
NSM66-48GEF4XGEF-EB	48-port 1000M SFP optical interface,4-port 10G SFP+ optical interface (Note:Configure with two 2*NSM66-SFUA)
NSM66-48GET4XGEF-EB	48-port 1000M Base-T electric interface,4-port 10G SFP+ optical interface (Note:Configure with 2*NSM66-SFUA)
NSM66-16XGEF-EB	16-port 10G SFP+ optical interface (Note:Configure with 2*NSM66-SFUB)
NSM66-32XGEF-EB	32-port 10G SFP+ optical interface (Note:Configure with 2*NSM66-SFUB)
NSM66-8QXGE-EB	8-port 40G QSFP+ optical interface (Note:Configure with 2*NSM66-SFUB)

Fan Module	
FAN-11A-01	FAN-11A-01 Fan Module For S6600A-06
Power Module	
AD800-1D005M	AD800-1D005M, 800W AC power module

NSS18500 Series	
NSS18500-04 Chassis	
NSS18500-04	NSS18500-04 chassis, two control engine slots, six switching engine slots, four service slots, two fan slot, four power slots.
Control Engine	
NSM185-MPUA	NSM185-MPUA Control Engine, for NSS18500-04, supporting active/standby backup function
Switching Engine	
NSM185-SFUA-EX	NSM185-SFUA-EX Advanced Switching Engine, for NSS18500-04
NSM185-SFUA	NSM185-SFUA Standard Switching Engine, for NSS18500-04
FAN Module	
FAN-06A-01B	FAN-06A-01B Fan module for NSS18500-04

Power Module	
AD800M-HV1B	AD800-HV1B, 800W AC power module
DD1600M-5V0B	DD1600M-5V1F, 1600W DC power module

Service Module	
NSM185-12QFP-DA	12-port 100GE QSFP28 interface line card(Note: Configure 4* NSM185-SFUA Switching Engines)
NSM185-24QFP-DA	24-port 100GE QSFP28 interface line card(Note: Configure 4* NSM185-SFUA Switching Engines)
NSM185-36QFP-DA	36-port 100GE QSFP28 interface line card(Note: Configure 4* NSM185-SFUA+2* NSM185-SFUA-EX Switching Engines)
NSM185-16QXGE-DA	16-port 40GE QSFP+ interface line card(Note: Configure 4* NSM185-SFUA Switching Engines)
NSM185-34QXGE-DA	34-port 40GE QSFP+ interface line card (Note: Configure 4* NSM185-SFUA Switching Engines)
NSM185-48XGEF2QXGE-DA	48-port 10GE SFP+ interface, 2-port 40GE QSFP+ interface line card(Note: Configure 4* NSM185-SFUA Switching Engines)
NSM185-48GET4XGEF-DA	48-port 1G Base-T electrical interface, 4-port 10GE SPF+ interface line card (Note: Configure 4* NSM185-SFUA Switching Engines)
NSS18500-08 Chassis	

NSS18500-08	NSS18500-08 chassis, two control engine slots, six switching engine slots, eight service slots, two fan slots, eight power slots.
Control Engine	
NSM185-MPUB	NSM185-MPUB Control Engine, for NSS18500-08, supporting active/standby backup function
Switching Engine	
NSM185-SFUC-EX	NSM185-SFUC-EX Advanced Switching Engine, for NSS18500-08
NSM185-SFUC	NSM185-SFUC Enhanced Switching Engine, for NSS18500-08
NSM185-SFUB	NSM185-SFUB Standard Switching Engine, for NSS18500-08
FAN Module	
FAN-15B-01B	FAN-15B-01B Fan module for NSS18500-08
Power Module	
AD800-1D005M	AD800-1D005M, 800W AC power module
DD1600M-5V1F	DD1600M-5V1F, 1600W DC power module
Service Module	
NSM185-12QFP-DA	12-port 100GE QSFP28 interface line card(Note: Configure 4* NSM185-SFUB Switching Engines)
NSM185-24QFP-DA	24-port 100GE QSFP28 interface line card(Note: Configure 4* NSM185-SFUC Switching Engines)
NSM185-36QFP-DA	36-port 100GE QSFP28 interface line card(Note: Configure 4* NSM185-SFUC+2* NSM185-SFUC-EX Switching Engines)
NSM185-16QXGE-DA	16-port 40GE QSFP+ interface line card(Note: Configure 4* NSM185-SFUB Switching Engines)
NSM185-34QXGE-DA	34-port 40GE QSFP+ interface line card (Note: Configure 4* NSM185-SFUC Switching Engines)
NSM185-48XGEF2QXGE-DA	48-port 10GE SFP+ interface, 2-port 40GE QSFP+ interface line card(Note: Configure 4* NSM185-SFUB Switching Engines)
NSM185-48GET4XGEF-DA	48-port 1G Base-T electrical interface, 4-port 10GE SFP+ interface line card (Note: Configure 4* NSM185-SFUB Switching Engines)

DAC&AOC Cable

10G SFP+DAC Cable	
SFP-STACK-15	SFP+ DAC stacking cable, SFP+ to SFP+,10Gbps, 1.5 meters length
SFP-STACK-30	SFP+ DAC stacking cable, SFP+ to SFP+,10Gbps, 3 meters length
SFP-STACK-50	SFP+ DAC stacking cable, SFP+ to SFP+,10Gbps, 5 meters length
25G SFP28 DAC Cable	
SFP28-STACK-15	SFP28 DAC stacking cable, SFP28 to SFP28, 25Gbps, 1.5 meters length
SFP28-STACK-30	SFP28 DAC stacking cable, SFP28 to SFP28, 25Gbps, 3 meters length
SFP28-STACK-50	SFP28 DAC stacking cable, SFP28 to SFP28, 25Gbps, 5 meters length
40G QSFP+DAC Cable	
QSFP-STACK-10	QSFP DAC stacking cable, QSFP to QSFP, 40Gbps, 1.0 meters length
QSFP-STACK-30	QSFP DAC stacking cable, QSFP to QSFP, 40Gbps, 3 meters length
QSFP-STACK-50	QSFP DAC stacking cable, QSFP to QSFP, 40Gbps, 5 meters length

100G QSFP28 DAC Cable	
QSFP28-STACK-30	QSFP28 DAC stacking cable, QSFP28 to QSFP28, 100Gbps, 3 meters length
10G SFP+AOC Cable	
SFP-STACK-AOC150	SFP+ AOC cable, SFP+ to SFP+, 10Gbps, 15 meters length
SFP-STACK-AOC200	SFP+ AOC cable, SFP+ to SFP+, 10Gbps, 20 meters length
25G SFP28 AOC Cable	
SFP28-STACK-AOC100	SFP28 AOC cable, SFP28 to SFP28, 25Gbps, 10 meters length
SFP28-STACK-AOC200	SFP28 AOC cable, SFP28 to SFP28, 25Gbps, 20 meters length
40G QSFP+AOC Cable	
QSFP-STACK-AOC50	QSFP AOC cable, QSFP to QSFP, 40Gbps, 5 meters length
QSFP-STACK-AOC100	QSFP AOC cable, QSFP to QSFP, 40Gbps, 10 meters length
QSFP-STACK-AOC150	QSFP AOC cable, QSFP to QSFP, 40Gbps, 15 meters length
QSFP-STACK-AOC200	QSFP AOC cable, QSFP to QSFP, 40Gbps, 20 meters length
100G QSFP28 AOC Cable	
QSFP28-STACK-AOC100	QSFP28 AOC cable, QSFP28 to QSFP28,100G, 10 meters length
QSFP28-STACK-AOC200	QSFP28 AOC cable, QSFP28 to QSFP28,100G, 20 meters length

Maipu SDN Controller Order Information

Maipu BD-LAN	Maipu Business Driven campus network management platform; by default five BD-LAN-L-1 license are included
BD-LAN-L-1	License for one network node management, providing advanced management functions of LAN network, including device discovery, network topology presentation, network planning, service plan and service auto implementation
BD-NPM	License for network performance analysis function module, providing flow analysis such as network applications, terminals, interfaces
BD-NPM-L-1	License for one network node's performance analysis
BD-UIM	License for Maipu unified authentication management function module, providing user identity authentication, access authentication, access auditing functions, and 802.1x authentication
BD-UIM-L-1	License for one terminal's authentication
BD-TM	License for Maipu intelligent terminal management function module, providing monitoring and management for terminal resources, including terminal type identification, terminal access monitoring, IP address management, asset management
BD-TM-L-1	License for one terminal's resource management
BD-CLS	License for cluster mode installation, providing the cluster-based installation with multiple hardware servers