

NSS5810 Series L3 Aggregation Switch


Datasheet

Product Overview

NSS5810 series switch is a high-performance stackable L3 aggregation routing switch developed by Maipu. It is applied in enterprise campus network and easy to deploy Layer3 switching solution that offers enhanced security and 1G/10G/25GE/40GE/100GE uplinks, RIP/OSPF/BGP/IS-IS, L2&L3 Multicast, VST/M-LAG stacking enabled and flexible management.

NSS5810 series switch can be used as L3 aggregation devices on large-sized campus networks. They can also be used as core devices on small and medium-sized campus networks. The switches help build highly reliable enterprise campus networks that are easy to expand and manage.

NSS5810 series switch includes the exclusive NSS5810-26XFH model.

| Model Name | Specification |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>NSS5810-26XFH</p> | <ul style="list-style-type: none"> ● 24*10G SFP+ and 2*40G QSFP+ (option: 2*100G QSFP+) ● Dual Power Slots ● Dual FAN Slots ● RJ45 Console/RJ45 Management/USB2.0 Port ● Switching Capacity: 640Gbps |

Technical Specifications

| Product model | NSS5810-26XFH |
|-------------------------------|--------------------------------------------------------------------------------|
| Hardware specification | |
| Hardware Version | V1 |
| Physical ports | 24-Port SFP+ interfaces, 2-Port 40G+ (option: 2*100G QSFP+) interfaces |
| Switching capacity | 640Gbps |
| Power slots | Dual |
| FAN slots | Dual |
| Management interface | One Console port, one management Ethernet port, one USB interface |
| Dimension (W×D×H) | 442mm*420mm*44.3mm |
| Flash | 8G |
| Memory | 2G |
| Jumbo Frame | 12K |
| MAC Address Entry | 128K/256K |
| IPv4 Routing Entry | 64K/80K |
| IGMP Snooping Entry | 8K |
| PIM Entry | 3K/6K |
| ARP Entry | 24K/48K |
| MSTP Instance | 64 |
| VRF Entry | 1K |
| VRRP Group | 255 |
| Input voltage (AC) | Input voltage (AC): 100V ~ 240V, 50Hz ~ 60Hz |
| Temperature | Work temperature: 0°C to 50°C |
| | Storage temperature: -40°C to 70°C |
| Humidity | Work humidity: 10% to 90%, no-condensing |
| | Storage humidity: 5% to 95%, no-condensing |
| Software Specification | |

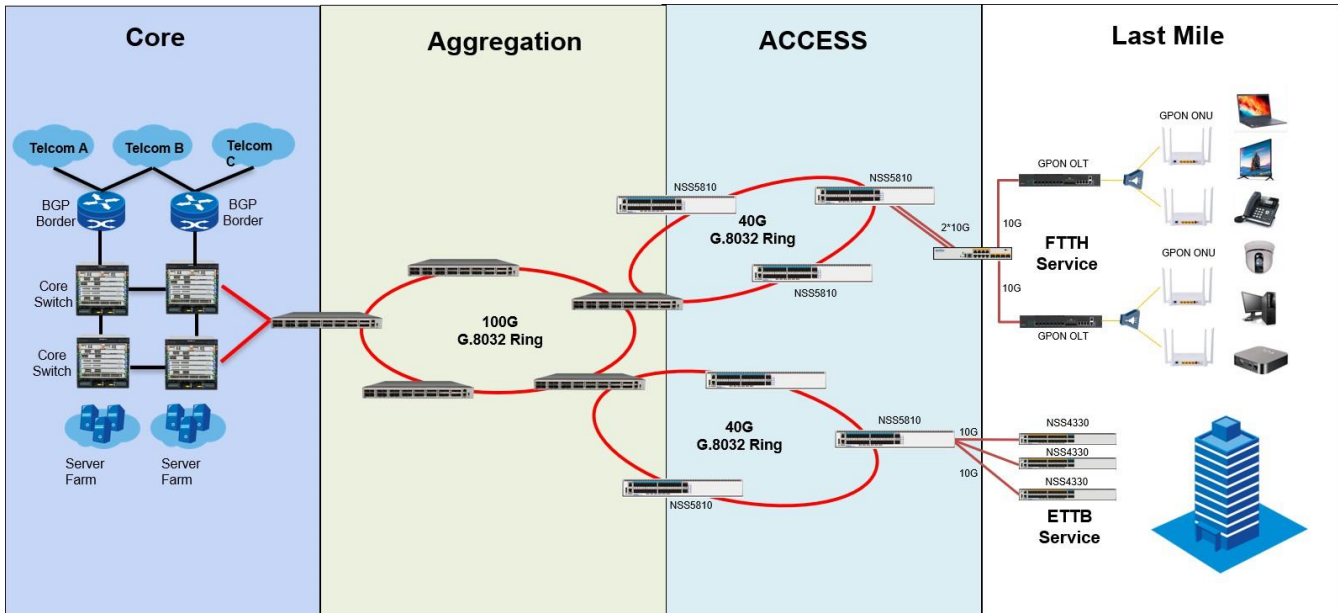
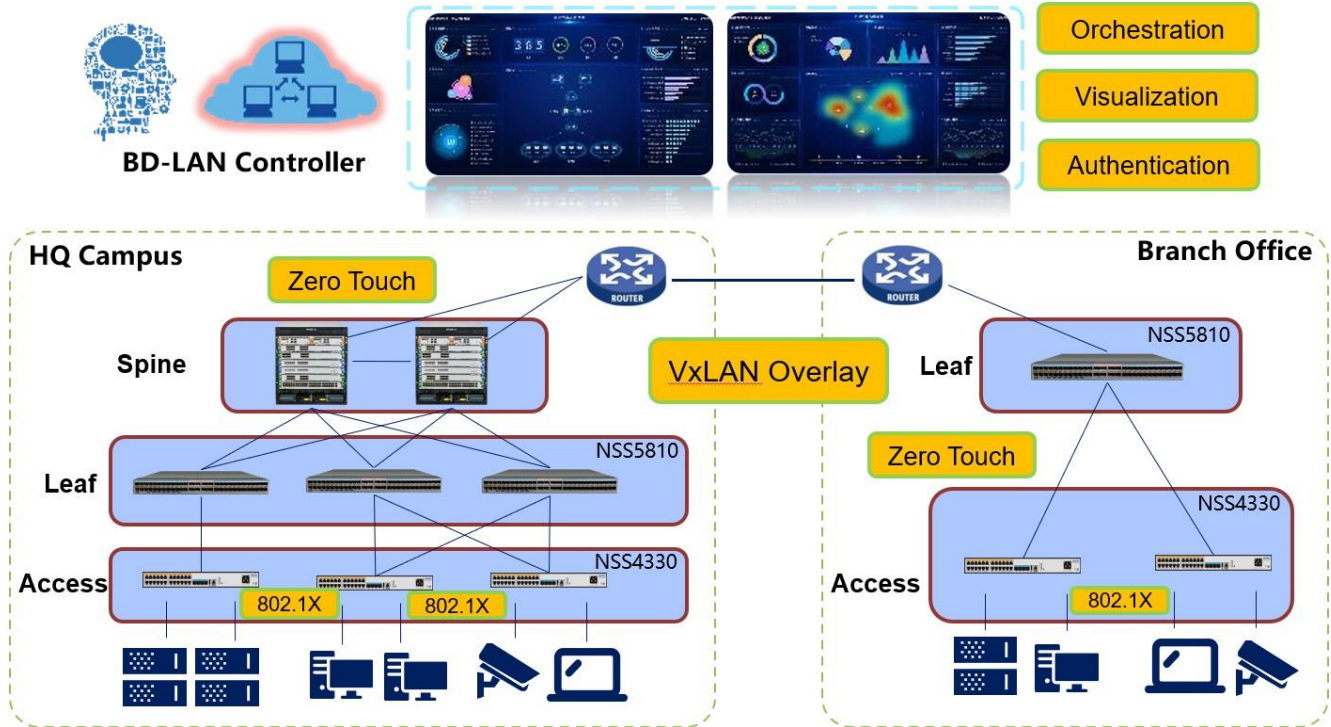
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| Standard L2 protocol | Interface | Port Type UNI/NNI, Port Speed, Port MTU, Port Loopback, Loopback interface, Tunnel interface, Null interface, VXLAN interface |
| | Ethernet Swithing | LACP Link aggregation, LACP Port Priority, LACP Load Balance, LACP Rate Monitor, LACP Debug, Port isolation, QinQ, VLAN mapping, Super VLAN, PVLAN, Voice VLAN, STP, MSTP, G.8032, Loopback-detection, Error-disable, GVRP, MLAG, VLAN isolation |
| Standard L3 protocol | IP Protocol | ARP, DHCP, DHCPv6, DHCP Server, DHCPv6 Server, DHCPv6 Client, DHCP Relay, DHCPv6 Relay, DHCP Option82, DNS, GRE, IPIP, IPv6 over IPv4, ISATAP, IPv4 over IPv6, IPv6 over IPv6 |
| | Routing Protocol | Static route for IPv4&IPv6, RIPv1/v2, RIPng, OSPFv2, OSPFv3, IS-IS, IS-ISv6, BGP, BGPv6, Policy Route |
| Multicast | L2 multicast | IGMPv1/v2/v3 Snooping, multicast VLAN |
| | L3 multicast | IGMPv1/v2/v3, PIM-SM, IPv6 PIM-SM, IPv6 PIM-SSM, PIM-DM, MSDP, MLD-snooping |
| QoS & ACL | QoS | 802.1p, DSCP, and other priority mapping, SP, WRED, WDRR, Flow classification, Traffic monitoring, Traffic shaping, Congestion management, Congestion avoidance, Flow-based mirroring |
| | ACL | Standard IP ACL, extended IP ACL, standard MAC ACL, extended MAC ACL, extended Hybrid ACL, Standard IPv6 ACL, extended IPv6 ACL |
| Virtualization | Stacking | H-VST, M-VST, M-LAG |
| | MAD | MAD LACP, MAD BFD, MAD Fast-hello |
| Zero Touch Provisioning | ZTP mode A | ZTP provisioning through DHCP server |
| | ZTP mode B | ZTP provisioning trough USB flash disk |
| MPLS VPN | L3 BGP MPLS | MPLS LDP, MPLS L3 VPN, MPLS Option-A & Option-B, MPLS Ping/traceroute |
| | MCE | Multi-VRF |
| Data Center | VxLAN | Static VxLAN, EVPN VxLAN |
| Security & Network Reliability | Security | ARP Check, AARF, AARF ARP-Guard, CPU Protection, Port Security, IP Source Guard, IPv6 Source Guard, ND-Snooping, DHCP Snooping, DHCPv6 Snooping, Dynamic ARP Inspection, Host Guard, PPPoE+, AAA, 802.1x, Portal, Anti-attack detect drop flood log, URPF, AARF |
| | Network Reliability | HA, ULFD, G.8032, ULPP, Monitor Link, VRRP, VRRPv3, VBRP, BFD, EEP |
| Management | Network Management | SNMP v1/v2/v3, MIB, RMON, SYSLOG, DNS, CLI, Telnet, FTP/TFTP, Debug, NTP, Keepalive Gateway |
| | Network Monitoring | SPAN, RSPAN, IPFIX, Netconf, sFlow, LLDP, IP-SLA, CWMP, NDSP, Telemetry, OAM |

Order Information

| Series | Model | Description |
|----------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NSS5810 Series Host | | |
| NSS5810 Series | NSS5810-26XFH | <ul style="list-style-type: none"> 24-Port SFP+ interfaces, 2-Port 40G QSFP+ (option: 2*100G QSFP+) interfaces, Dual Fan Slots, Dual Power Slots |
| FAN Module | | |
| FAN Module | FAN-01C-01B | V2 Version: FAN-01C-01B Fan Module for NSS5810-26XFH |
| Power Module | | |
| Power Module | AD120M-HSON | 120W Power Module, AC 100V~240V For NSS5810-26XFH |

Typical Application

Campus LAN Network



ISP FTTH Network