Navijin

Datasheet
L3 Managed Switch

NGS4800-24M6X

24× 2.5G RJ45 and 6× 10G SFP+ L3 Managed Switch

Highlights

- Support 24× 2.5G RJ45 and 6× 10G SFP+ ports
- Support full L3 routing: OSPF, BGP, RIP, PBR, ECMP, VRRP
- Support full IPv6: OSPFv3, BGP4+, RIPng, DHCPv6
- Support BVSS virtual stacking, ERPS ring network, ISSU
- Supports 802.1X, DHCP Snooping, DAI and IP Source Guard
- Support ZTP, sFlow, Web/CLI/SNMP management



Specifications

Model	NGS4800-24M6X
Hardware Specification	
Power Supply	Built-in AC 100~240V 50/60Hz Power consumption: <48W
Interfaces	24× 2.5G/1G RJ45 ports 6× 10G/1G SFP+ ports 1x Console port (RJ45)
Network Protocol	IEEE 802.3 Ethernet MAC Protocol, IEEE 802.3x Flow Control IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5GBASE-T, IEEE 802.3z 1000BASE-X, IEEE 802.3ae 10G IEEE 802.3ad Link Aggregation (LACP), IEEE 802.1ab LLDP IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP IEEE 802.1Q VLAN, IEEE 802.1p CoS, IEEE 802.1X IEEE 802.3ah / 802.1ag Ethernet OAM, ITU-T G.8032 ERPS
Network Medium	100BASE-TX / 1000BASE-T: UTP Cat5e or above (≤100m) 2.5GBASE-T: UTP Cat5e / Cat6 (≤100m) 1000BASE-SX/LX via SFP; 10GBASE-SR/LR via SFP+; 10G DAC
LED Indicator	SYS and PWR indicators; port Link/Act indicators
Dimensions	440mm x 280mm x 44mm (1U, 19" rack mount)
Working Environment	Working Temperature: 0~50°C / Working Humidity: 10%~90%, non-condensing Storage Temperature: -20~70°C / Storage Humidity: 5%~95%, non-condensing MTBF: >200,000 hours / Noise: 45dBA at 25°C
Performance	
Switching Capacity	240Gbps
Packet Forwarding Rate	180Mpps
Packet Buffer Memory	2MB
MAC Address	32K
Jumbo Frame	9KBytes
VLANs	VLAN Range 1-4094, with a maximum active VLAN of 4K; 1K SVIs

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Software Function	
L3 Switching Features	Static Routing - IPv4/IPv6 RIP v1/v2, RIPng OSPF, OSPFv3 BGP, BGP4+ Policy-Based Routing (PBR) Equal-Cost Multi-Path (ECMP) VRRP BFD for static routing, RIP, OSPF and BGP Graceful Restart for OSPF and BGP Routing Table: IPv4 8K / IPv6 4K ARP Table: IPv4 12K / IPv6 2K DHCP Server, Client, Relay
L2 Switching Features	32K MAC Address Table 9K Jumbo Frame Flow Control 802.3x Spanning Tree IEEE 802.1D (STP) IEEE 802.1w (RSTP) IEEE 802.1s (MSTP) G.8032 ERPS, EAPS ring protection Link Aggregation Static and IEEE 802.3ad LACP Port Isolation BVSS Virtual Stacking
VLAN	4K active VLANs IEEE 802.1Q Tagged-based 1K SVIs (VLAN interfaces)
Multicast	IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave Multicast group policy and group number limit Multicast Filtering Multicast VLAN Registration (MVR) PIM-DM / PIM-SM / PIM-SSM MLD v1, MLD Snooping
Quality of Service (QoS)	8 queues per port Classification by port / L2~L4 header / VLAN / CoS / DSCP CAR traffic control 802.1p / DSCP priority mapping and remark Queue Scheduling SP, WRR, SP+WRR Tail-Drop, WRED Traffic supervision and traffic shaping
Access Control List (ACL)	ACL Type - L2/L3/L4 IPv4 ACL IPv6 ACL (ACLv6)

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Security	AAA RADIUS, TACACS+ IEEE 802.1X authentication Multiple-user authentication, Guest VLAN MAC-based authentication Multiple user privileges Port Security, MAC address limitation IP + MAC + Port Binding Port Isolation DHCP Snooping, DHCP Option 82 Dynamic ARP Inspection (DAI) IP Source Guard (IPSG) L2~L4 ACL DDoS prevention: TCP-SYN / UDP / ARP flood Anti-DoS / IP spoofing / ping / ICMP flood Broadcast / multicast / unknown-unicast storm control
IPv6	IPv4/v6 dual stack IPv6 Static Routing RIPng OSPFv3 BGP4+ ICMPv6 DHCPv6 ACLv6 IPv6 Telnet IPv6 Neighbor Discovery Path MTU Discovery MLD v1, MLD Snooping Manual, ISATAP, 6to4 tunnels

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Management	CLI Console Telnet SSH v1/v2 Web-GUI HTTP, HTTPS/SSL SNMP (v1, v2c, v3) RMON SNMP alarm / inform / traps File Management FTP, TFTP, SFTP upload/download Zero Touch Provisioning (ZTP) Time Management NTP
Discovery	IEEE 802.1AB LLDP, LLDP-MED
Diagnostics	Syslog for alarm / notification / command / debug Port Mirroring - SPAN, RSPAN (1:1 and N:1) sFlow Optical DDM Ethernet cable diagnosis Ethernet OAM IEEE 802.3ah, 802.1ag
Reliability	BVSS Virtual Stacking G.8032 ERPS / EAPS ring protection Static / LACP link aggregation VRRP Graceful Restart for OSPF and BGP BFD for OSPF and BGP ISSU

