Navijin

DATASHEET

NETWORK INFRASTRUCTURE / L3 MANAGED SWITCH

NJS-7208M

8x 2.5G RJ45 and 4x 10G SFP+ L3 Managed Switch

PRODUCT PAGE

Enterprise | Campus | Hospital | Data Center

NJS-7208M



Overview

The Navijin NJS-7208M is a Layer 3 managed switch for multi-gigabit access networks – 8x 2.5G RJ45 + 4x 10G SFP+ L3 Managed Switch. Key specifications include: 8x 2.5G RJ45 and 4x 10G SFP+ ports; Layer 3 routing; compact 1U design. It provides routing, VLANs, QoS and advanced security for enterprise, campus, hospital and data center networks.

Key Features

- Support 8x 2.5G RJ45 multi-gig and 4x 10G SFP+
- Ideal for Wi-Fi 6/6E/7 access points and small cores
- Support L3 routing: static, RIP, OSPF, BGP, VRRP, PBR
- Support full IPv6: OSPFv3, BGP4+, RIPng, DHCPv6
- Support Navijin Virtual Stacking (NVS) and ERPS ring (<50ms)
- Supports 802.1X, DHCP Snooping, DAI and IP Source Guard

Hardware Specification

Power Supply	Built-in AC 100~240V 50/60Hz power supply (DC 36~72V model available) Power consumption: <35W
Interfaces	8x 100M/1G/2.5G RJ45 ports 4x 10Gbps SFP+ ports (1G/10G) 1x Console port (RJ45)
Network Protocol	IEEE 802.3 Ethernet MAC Protocol, IEEE 802.3x Flow Control IEEE 802.3bz 2.5GBASE-T, IEEE 802.3ab 1000BASE-T, IEEE 802.3ae 10G Ethernet 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 802.1ad QinQ, IEEE 802.1p CoS IEEE 802.1X Port-based Access Control IEEE 802.3ah / 802.1ag Ethernet OAM, ITU-T Y.1731

Network Medium	2.5GBASE-T / 1000BASE-T via RJ45 (Cat5e or better) 1000BASE-SX/LX via SFP; 10GBASE-SR/LR via SFP+; 10G DAC
LED Indicator	System, power, fan and alarm indicators; port Link/Act indicators
Dimensions	280mm x 180mm x 44mm (1U, 19" rack mount with brackets)
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	120Gbps
Packet Forwarding Rate	90Mpps
Routing Table	IPv4 512 / IPv6 128; ARP 2K / ND 2K
MAC Address	16K
Jumbo Frame	9KBytes
VLANs	VLAN Range 1-4094, with a maximum active VLAN of 4K; 63 SVIs

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 OSPF and BGP
- Address Resolution Protocol (ARP)

L2 Switching Features

- 16K MAC Address Table
- 9K Jumbo Frame
- Flow Control 802.3x
- Spanning Tree
- IEEE 802.1D (STP)
- IEEE 802.1w (RSTP)
- IEEE 802.1s (MSTP)
- BPDU Guard, Root Guard, Loopback Guard
- ERPS, EAPS ring protection
- Link Aggregation
- Static and IEEE 802.3ad LACP
- Interface Backup
- NVS Virtual Stacking

VLAN

- 4K active VLANs
- IEEE 802.1Q Tagged-based
- QinQ and Selective QinQ
- GARP VLAN Registration Protocol (GVRP)
- Private VLAN

Multicast

- PIM-SM
- PIM-DM
- IGMP v1/v2/v3
- IGMP Snooping
- IGMP Fast Leave
- IGMP Filter
- Multicast VLAN Registration (MVR)
- MLD Snooping

Quality of Service (QoS)

- CAR
- Classification by MAC/IP/TCP/UDP/VLAN/CoS/DSCP/ToS
- 802.1p / DSCP re-marking
- Queue Scheduling
- SP, WRR, SP+WRR
- Tail-drop, WRED
- Traffic Shaping
- Flow Monitoring

Access Control List (ACL)

- ACL Type - L2/L3/L4
- IPv4 ACL
- IPv6 ACL (ACLv6)

Security

- AAA Authentication
- RADIUS
- TACACS+
- IEEE 802.1X
- Port Security, MAC Sticky
- Port Isolation
- IP + MAC + Port Binding
- DHCP Snooping (with Option 82)
- Dynamic ARP Inspection (DAI)
- IP Source Guard
- PPPoE+
- Anti-DDoS: SYN Flood, UDP Flood
- Storm Control
- uRPF
- SSH, HTTPS
- MD5, SHA-256, RSA-1024, AES-256

IPv6

- IPv6 Static Routing
- RIPng
- OSPFv3
- BGP4+
- ICMPv6
- DHCPv6
- ACLv6
- IPv6 Neighbor Discovery (ND)
- Path MTU Discovery
- Telnet over IPv6
- IPv6 Tunnels
- Manual, ISATAP, 6to4

Management

- CLI
- Console
- Telnet
- SSH v1/v2
- WebUI
- HTTP/HTTPS
- SNMP (v1, v2c, v3)
- RMON
- File Management
- TFTP, FTP, SFTP
- Firmware Upgrade
- In-Service Software Upgrade (ISSU)
- Time Management
- NTP

Discovery

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

Diagnostics

- Port Mirroring - SPAN
- Remote Mirroring - RSPAN
- Ethernet OAM IEEE 802.3ah
- Connectivity Fault Management IEEE 802.1ag
- ITU-T Y.1731
- BFD

Reliability

- NVS Virtual Stacking
- ERPS / EAPS ring protection
- Graceful Restart
- Continuous Forwarding
- ISSU

Warranty & support Local RMA and technical support through our regional hub in Dubai and our authorized partners. Certificates and project pricing on request. **navijin.com** · **sales@navijin.com**

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