Navijin

DATASHEET

NETWORK INFRASTRUCTURE / L3 MANAGED SWITCH

NJS-7224M

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

PRODUCT PAGE

Enterprise | Campus | Hospital | Data Center

NJS-7224M



Overview

The Navijin NJS-7224M is a Layer 3 managed multi-gigabit switch for access and aggregation networks – 24x 2.5G RJ45 and 6x 10G SFP+ L3 Managed Switch. Key specifications include: 24x 2.5G RJ45 and 6x 10G SFP+ ports; 240Gbps switching capacity with full L3 routing: OSPF, BGP, RIP, PBR, ECMP, VRRP; Navijin Virtual Stacking (NVS), ERPS ring protection and ZTP. It is ideal for Wi-Fi 6/7 access point uplinks and provides static and dynamic routing, VLANs, QoS and advanced security for enterprise, campus, hospital and data center networks.

Key Features

- Support 24x 2.5G RJ45 and 6x 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

Hardware Specification

Power Supply	Built-in AC 100~240V 50/60Hz Power consumption: <48W
Interfaces	24x 2.5G/1G RJ45 ports 6x 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

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)

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

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

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**

Rev. 2026-11. Specifications are subject to change without notice. Navijin and the Navijin logo are trademarks of Navijin Technology Co. All other trademarks are the property of their respective owners. © 2026 Navijin Technology Co. All rights reserved.