Navijin

DATASHEET

NETWORK INFRASTRUCTURE / L3 MANAGED SWITCH

NJS-9832C

32x 100G QSFP28 L3 Data Center Routing Switch

PRODUCT PAGE

Enterprise | Campus | Hospital | Data Center

NJS-9832C



Overview

The Navijin NJS-9832C is a Layer 3 managed switch for data center and core networks – 32x 40/100G QSFP28 L3 Data Center Routing Switch. Key specifications include: 32x 100G QSFP28 ports; 6.4Tbps switching capacity; MPLS and full L3 routing. It provides routing, VLANs, QoS and advanced security for enterprise, campus, hospital and data center networks.

Key Features

- Support 32x 100G QSFP28 ports
- Support 6.4Tbps switching capacity, line-rate L2/L3
- Support OSPF, BGP, IS-IS, ECMP and MPLS
- Support VXLAN / EVPN and M-LAG for data center fabrics
- Support PFC/ECN lossless Ethernet for storage and AI traffic
- Support dual hot-swap power supplies and 4 redundant fans

Hardware Specification

Power Supply	2 hot-swap power slots, 1+1 redundant (dual PSU included) AC 100~240V 50/60Hz or DC -36V~-72V
Interfaces	32x 100Gbps QSFP28 ports (40G/100G, breakout supported) 1x Out-of-band MGMT port 1x Console port
Network Protocol	IEEE 802.3 Ethernet MAC Protocol, IEEE 802.3x Flow Control IEEE 802.3ae 10G Ethernet, IEEE 802.3by 25G Ethernet IEEE 802.3ba 40G/100G Ethernet, IEEE 802.3bm 100G 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	40GBASE-SR4/LR4 via QSFP+; 100GBASE-SR4/LR4/CWDM4 via QSFP28
LED Indicator	System, power, fan and alarm indicators; port Link/Act indicators
Dimensions	440mm x 420mm x 44mm (1U, 19" rack mount); 4 hot-swap fan slots
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

Performance

Switching Capacity	6.4Tbps
Packet Forwarding Rate	4800Mpps
VLANs	VLAN Range 1-4094, with a maximum active VLAN of 4K

Software Function

L3 Switching Features

- Static Routing - IPv4/IPv6
- RIP v1/v2, RIPng
- OSPF, OSPFv3
- BGP, BGP4+
- IS-IS
- Policy-Based Routing (PBR)
- Equal-Cost Multi-Path (ECMP)
- VRRP
- BFD for OSPF and BGP
- Multi-VRF
- MPLS L2VPN / L3VPN
- VXLAN, BGP EVPN
- Address Resolution Protocol (ARP)

L2 Switching Features

- 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
- M-LAG (multi-chassis link aggregation)

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
- HQoS
- 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
- PFC / ECN (lossless Ethernet)

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

- 1+1 hot-swap power supplies
- Redundant hot-swap fans
- M-LAG
- 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**

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.