Navijin

DATASHEET

DATA CENTER SWITCHING / DATA CENTER SWITCH

NJD-7448C

1U data-center switch, 48 × 100G + 8 × 400G

PRODUCT PAGE

Enterprise & government data centers

Cloud & hosting providers

AI / GPU clusters

Storage networks (RoCE)

NJD-7448C



16T	48 × 100G	8 × 400G
SWITCHING	QSFP28	QSFP-DD

Overview

The Navijin NJD-7448C (1U data-center switch, 48 × 100G + 8 × 400G) is part of the Navijin Data Center Switching family. High-density 100G leaf with 400G uplinks for cloud and AI clusters. It is supplied with warranty, local RMA and technical support through Navijin's Dubai hub and authorised partners.

Key Features

- VXLAN, EVPN and M-LAG for leaf-spine fabrics and large Layer-2 domains
- Lossless Ethernet for RDMA/AI clusters: PFC, ECN, WRED and PFC deadlock detection
- BGP/BGP+ with ECMP, UCMP, policy routing and resilient hashing
- Automation: ZTP, NETCONF, RESTCONF/YANG and on-box Python 3
- Hitless operation: ISSU in-service upgrades, hot patches and millisecond BFD failover
- Redundant hot-swap power and fans (N+1), front-to-back airflow, BMC management

Specifications

Ports	48 × 100G QSFP28, 8 × 400G QSFP-DD
Management	1 × console, 1 × GE out-of-band, 1 × USB 2.0

Switching capacity	16 Tbps
Forwarding rate	12,000 Mpps
Power	2 hot-swap slots (1+1), 2 × 1300 W AC included; 100–264 V AC, 50/60 Hz or 190–310 V HVDC
Max. power	< 1300 W
Cooling	6 hot-swap fans (N+1), front-to-back airflow
Dimensions	442 × 550 × 44 mm (1U)
Operating temp.	0 – 40 °C, 10 – 90 % RH non-condensing

More features

Also included

- Visibility: sFlow, SPAN/ERSPAN mirroring and per-port pps/bps counters
- Ethernet OAM (802.3ah, 802.1ag, Y.1731) for end-to-end monitoring
- GRE tunnels, NAT and data-plane ACLs (ingress/egress, L3/L4)
- IEEE 802.3az Energy Efficient Ethernet and intelligent fan speed control

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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