Managed Ethernet Switch

# NSW6630-24XP2CQ-IN



## Overview

NSW6630 Series Switches are the next generation high-density 10G Ethernet switches. Based on the industry's leading 40G/100G hardware architecture, the Series is equipped with virtualization technology and rich data center features. It provides up to 48 wire-speed 10G interfaces on 1U equipment. It also has 40G/100G uplink interfaces to meet the requirements of high-density 10G access and 40G/100G uplink in TOR deployment of the next generation data centers. In addition to 10G access switches for cloud data centers, NSW6630 can also serve as a core for small- or medium-sized secure networks or an aggregation equipment for large-scale secure networks.

## Features

- High-capacity high-density 10G interface. It is the industry's first-class 1U cassette switch, with up to 80x10G interfaces capability, meeting the challenge of high density and high bandwidth access in next-generation cloud computing data centers.
- Rich data center features. NSW6630 Series is equipped with the TRILL (Transparent Interconnection of Lots of Links) technology to enhances network stability and realizes quick convergence of the Layer 2 network. Compatible with VXLAN, 802.3 Qbg, NSW 6630 Series enables a highly integrated network combining traditional front-end server and back-end storage.
- Multi-service support capability. With MCE, NSW6630 Series creates and maintains separate routing tables for each VPN to ensure user isolation on the same device. It can serve as a reliable and economical solution for the secure isolation of multi-services in the network. NSW6630 Series supports multiple protocols such as IGMP, IGMP Snooping and PIM. It supports large-scale multicast entries to fully satisfy the requirements of IP HD video surveillance and other multicast services. Compatible with fast ring network recovery protocol (FRRP) and fast link recovery protocol (FLRP).
- Virtual Switching Matrix (VSM). NSW6630 Series adopts Virtual Switching Matrix (VSM) technology, which performs virtualization of multiple physical devices into a single logical device for unified configuration and management.
- Full support of IPV4/IPv6 dual stack. NSW6630 Series supports IPv4/IPv6 dual stack and IPv6 over IPv4 Tunnel (including manual Tunnel, 6to4 Tunnel, ISATAP Tunnel) as well as IPv6 layer 3 wire-speed forwarding. It can be flexibly deployed on a network with only IPv4 or IPv4, or with both IPv4 and IPv4, thus satisfying the transition requirements from IPv4 to IPv6.
- Outstanding management. Compatible with SNMPv1/v2/v3 standard network management protocol, NSW6630 Series provides

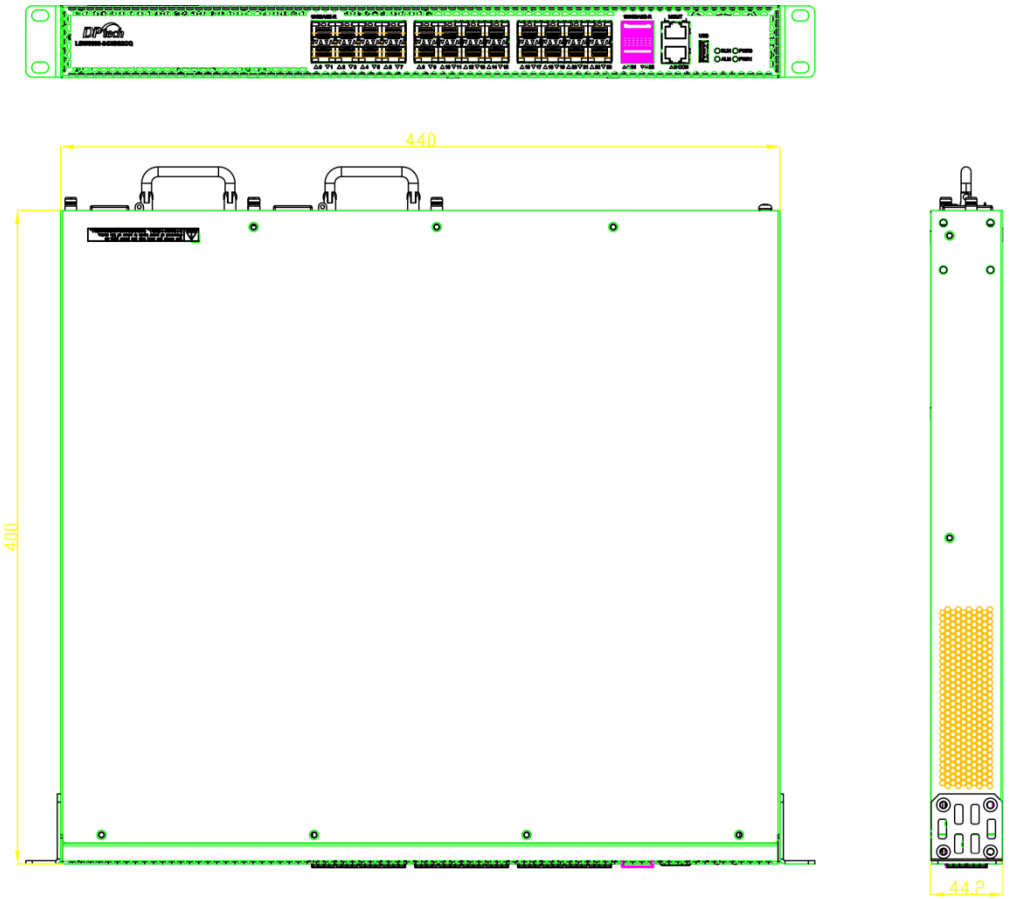
CLI command lines and a Web management interface.

# Specifications

| Model | NSW6630-24XP2CQ-IN |
|---|---|
| Hardware Specification | |
| Ports Type | 24*1G/10G BASE-X SFP+ ports ;<br>2*100GE QSFP28 ;<br>1*RJ45 management port ;<br>1*RJ45 Console port;<br>1*USB |
| Packet Buffer | 24M bits |
| Switching capacity | 880Gbps |
| Forwarding performance | 297.49Mpps |
| Jumbo Frame | 9K |
| Power Supply | AC: 100-240V, 50/60Hz ;<br>Dual Power Supply with Hot Swap Function |
| Cooling Fans | 2 |
| Dimensions (W×D×H) | 440mm*400mm*44mm |
| Operating Temperature | 0°C to 45°C (32°F to 113°F) |
| Operating Humidity | 10% to 90% (noncondensing) |
| Weight | 4.75kg |
| Max.Power | 100W |
| Storage Temperature | -40°C to 70°C (-40°F to 158°F) |
| Storage Humidity | 5% to 90% (noncondensing) |
| Software Specification | |
| MAC | Static :4K<br>ALL :72K |
| Ethernet | Support Port trunk, basic port functions, LACP, etc. |
| DHCP | Support DHCP Client, DHCP Server, DHCP Relay, DHCP Snooping |
| VLAN | Support Mac-VLAN<br>Support Subnet-VLAN<br>Support Protocol VLAN<br>Support VLAN Mapping<br>QinQ /Flexible QinQ |
| Reliability | Support STP, RSTP, MSTP, FRRP, ERPS Ethernet ring protection protocol (G.8032)<br>Support STP Root Guard, BPDU Guard<br>Supports FLRP Fast Link Recovery Protocol |
| ARP | Support static table entry, gratuitous ARP<br>Supports standard proxy ARP and local proxy ARP<br>Support Dynamic ARP Inspection<br>Support ARP anti-attack<br>Support ARP source suppression, ARP source address check, ARP one-key binding, authorized ARP |

| | |
|---|---|
| | Static Port Access Control |
| IP Route | IPv4: Static routing, RIP v1/2, OSPF, BGP, ISIS, policy-go-together, etc. |
| Multicast | Support IGMP Snooping v2/v3, IGMP Snooping Fast-leave, IGMP Snooping Group-policy<br>Support PIM-SM, PIM-SSM, PIM-DM |
| Maintenance | Support RMON<br>Support debug information output<br>Supports virtual cable detection<br>Support real-time temperature detection and alarm<br>Support NTP, uninterrupted service upgrade<br>Support power supply, fan, temperature alarm<br>Support Ping, Tracert, Track<br>Support NetStream traffic statistics function<br>Support Ethernet OAM (802.1ag and 802.3ah)<br>Support SNMP, CLI, Web management<br>Support local and remote output of system logs, operation logs, debugging information |
| Security | Support local and centralized authentication based on MAC address<br>Support local and centralized authentication based on 802.1x<br>Support local and centralized authentication based on Portal<br>Support dynamic ARP detection, one-click ARP binding, authorized ARP, ARP source suppression, ARP source address inspection; Support port isolation, Static Port Access Control<br>Support broadcast storm suppression<br>Support SSH2.0 |
| QoS | Support traffic classification based on 802.1p/DSCP/TOS<br>Support speed limit on ports and streams<br>Support SP, WRR, SP + WRR queue scheduling |
| Virtualization | Support VSM virtualization |
| Data Center | Layer-2 VxLAN<br>Layer-3 VxLAN<br>Support 802.1Qbg, TRILL, EVPN<br>Supports OpenFlow 1.3 etc. |
| Basic | |
| Installation Type | Rack, Desktop |
| Port Surge Protection | Common mode ±2KV |
| Certification | CE, FCC |
| Port ESD Standard | Contact ±6KV, Air ±8KV |
| Compliance | |
| NDAA Compliant | Support |

# Dimensions



# Unlimited New View

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