Managed Ethernet Switch

NSW6630-48XP8CQ-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

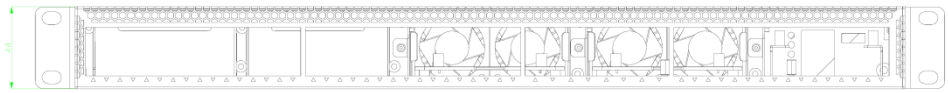
CLI command lines and a Web management interface.

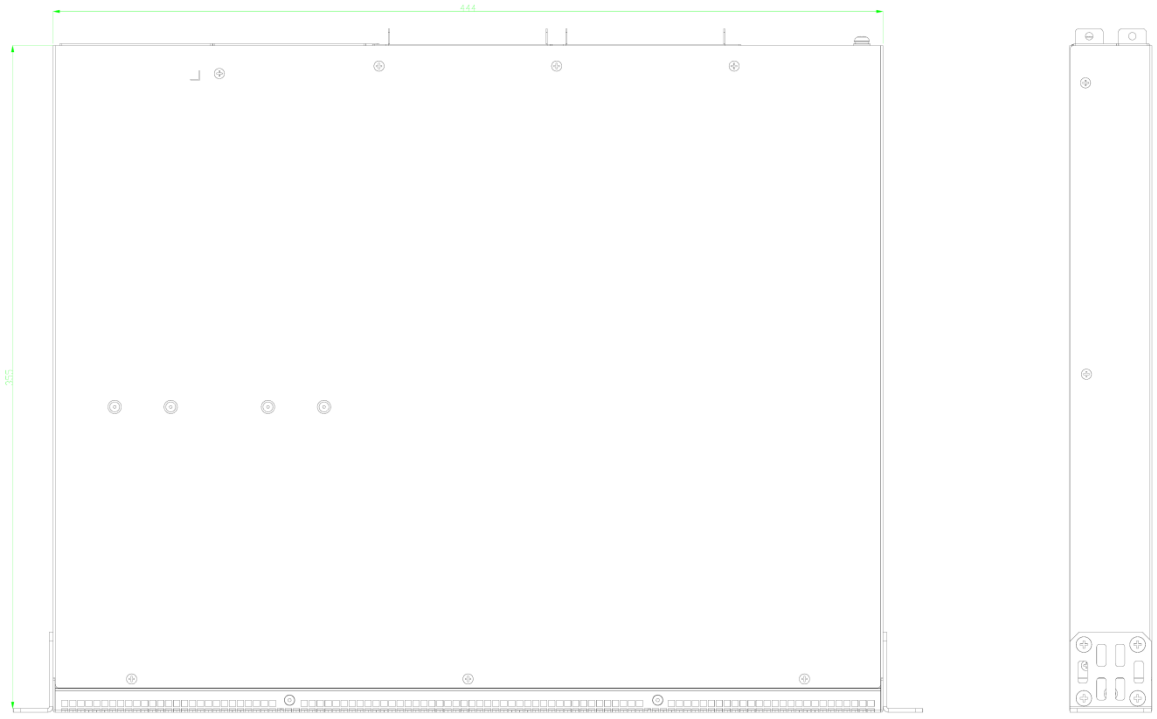
Specifications

Model	NSW6630-48XP8CQ-IN
Hardware Specification	
Ports Type	48*1G/10G BASE-R SFP+ ports ; 8*100GE QSFP28 ; 1*RJ45 management port ; 1*RJ45 Console port; 1*USB
Packet Buffer	72M bits
Switching capacity	2.56Tbps
Forwarding performance	1012Mpps
Jumbo Frame	9K
Power Supply	AC: 100-240V, 50/60Hz ; Dual Power Supply with Hot Swap Function
Cooling Fans	4
Dimensions (W×D×H)	444mm×375mm×44mm
Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	10% to 90% (noncondensing)
Weight	7.65
Max.Power	288W
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Humidity	5% to 90% (noncondensing)
Software Specification	
MAC	Static :4K 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 Support Subnet-VLAN Support Protocol VLAN Support VLAN Mapping QinQ /Flexible QinQ
Reliability	Support STP, RSTP, MSTP, FRRP, ERPS Ethernet ring protection protocol (G.8032) Support STP Root Guard, BPDU Guard Supports FLRP Fast Link Recovery Protocol
ARP	Support static table entry, gratuitous ARP Supports standard proxy ARP and local proxy ARP Support Dynamic ARP Inspection Support ARP anti-attack 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 Support PIM-SM, PIM-SSM, PIM-DM
Maintenance	Support RMON Support debug information output Supports virtual cable detection Support real-time temperature detection and alarm Support NTP, uninterrupted service upgrade Support power supply, fan, temperature alarm Support Ping, Tracert, Track Support NetStream traffic statistics function Support Ethernet OAM (802.1ag and 802.3ah) Support SNMP, CLI, Web management Support local and remote output of system logs, operation logs, debugging information
Security	Support local and centralized authentication based on MAC address Support local and centralized authentication based on 802.1x Support local and centralized authentication based on Portal Support dynamic ARP detection, one-click ARP binding, authorized ARP, ARP source suppression, ARP source address inspection; Support port isolation, Static Port Access Control Support broadcast storm suppression Support SSH2.0
QoS	Support traffic classification based on 802.1p/DSCP/TOS Support speed limit on ports and streams Support SP, WRR, SP + WRR queue scheduling
Virtualization	Support VSM virtualization
Data Center	Layer-2 VxLAN Layer-3 VxLAN Support 802.1Qbg, TRILL, EVPN 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





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