

# NSW5110 Series Ethernet Switches



NSW5110-24GT4GP-IN

## Key Features

- Support RJ45 Auto-MDI/MDIX
- Flow Control for Full Duplex operation and back pressure for Half Duplex Operation;
- Support Energy-Efficient Ethernet (EEE) function (IEEE802.3az);
- Supports a complete lineup of L2 features, including 802.1Q tag VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function;
- Web, CLI (Console Port, Telnet, SSH), SNMP and RMON bring abundant management policies;

## Specifications

Model	NSW5110-24GT4GP-IN
Ports	24×1000Mbps ports (RJ45)+2×1000Mbps Fiber(SFP) ports+2G Combo ports
Standards	IEEE802.3, IEEE802.3u, IEEE802.3z,IEEE802.3ab, IEEE802.3x
Switching capacity	56Gbps
Forwarding performance	41.66Mpps
Packet Buffer	4Mbit
MAC	8K
Dimensions (W×D×H)	440*208*44mm
Weight	3.6<kg
Power supply	AC: 100-240V, 50/60Hz
Mean Time Between Failure (MTBF)	>50000 hours
Operating temperature	0°C-40°C (32°F-104°F)
Operating humidity	10%~90% (noncondensing)
Storage humidity	5%~90% (noncondensing)
Indicatorlight	PWR: Death: switch does not power on  Permanent: the switch is powered on
Indicatorlight	LINK/ACT: Death: not connected to the network equipment

Indicatorlight	Green light: connected to 1000Mbps devices Blinking:connected devices are data transmission
	System: Blinking: the system works Out: the system is starting or has nopower

**Software Specification**

Ethernet	support Frame format:Ethernet II
	support Gigabit SFP 100 Gigabit compatible
	support flow control
	support Line order (MDIX/MDI)
	support link aggregation
	support Jumbo Frame length 9K
	support Port rate adjustment auto 10Mfull、half 100Mfull、half 1000Mfull
	support Port information statistics
	support Port Description
IEEE802.1d STP	support IEEE802.1d STP
IEEE802.1w RSTP	support IEEE802.1w RSTP
MSTP	support standard 802.1s MSTP
	support64 MSTP instance
STP Optional Features	support PORT FAST
	support BPDU FILTER
	support BPDU GUARD
	support hello-time
	support Max Age
	support Forward Delay
	support Max hops
	support TC ignore

	support TC GUARD
mstp Port Optional Features	support PORT FAST
	support BPDU FILTER
	support BPDU GUARD
	support TC GUARD
	support TC filter
	support Auto Edge
	support TC PROTECTION
	support Compatibility mode
	support ROOT GUARD
	support point to point
	AP
dst-ip            Destination IP address	
dst-mac          Destination MAC address	
src-dst-ip       Source and destination IP address	
src-dst-mac      Source and destination MAC address	
src-ip            Source IP address	
src-mac          Source MAC address	
support Maximum number of Aps	
support AP member port that is included in each AP.	
storm control	support broadcast storm control
	support multicast storm control
	support unicast storm control
	support Control granularity (percentage and kbps are values for 64-byte datagram) 64kbps
mirroring	support Many-to-one mirror
	support Stream-based mirroring
	support Number of mirror groups4 SESSION
VLAN	support Whether to allow VLAN 1 to be deleted on the trunk port
	support Port based VLAN
	support GVRP
	support The number of VLANs that can support be created 4094
	support mac-vlan

	support subnet-vlan
	support protocol vlan
	supportvlan maps
	support Allow specified VLAN ID range 1-4094
MAC address	support global MAC address qualities 8K
	support static MAC address qualities 1024
	support filtering MAC address qualities 1024
	support Check and delete address table
	support Static address and dynamic learning address
	support filtering address
LLDP	support LLDP
ONVIF	support ONVIF Detect
	support ONVIF Server
IGMP Snooping	support IGMP SNOOPING Groups qualities
	support IGMP V1,V2 snooping
	support source IP check
	support Multicast policy and filtering
	support IGMP Fast Leave
Port limit	support Egress speed limit granularity
	support Ingress speed limit
	support Egress speed limit
ARP	support Anti-ARP gateway spoofing
	support filtering IP Port
	support Free ARP protection
	support Source MAC check
	support ARP detection
	supportip and mac Static binding
	supportarp trust Port
Network Tool	support Ping
	supportTraceroute

ACE capacities	support The input direction is associated with the physical port
ACL	support IP standard ACL
	support IP extended ACL
	support MAC extended ACL
	support professional ACL
	support global ACL
	support time-range ACL
QoS	support QOS hardware queues qualities
	support Determine the exit queue according to 802.1p, DSCP, port
	support Stream-based 802.1p re-marking
	support Stream-based queue maps
	support SP
	support WRR
	support RR
support WFQ	
Port Security	support Mac filtering time support Whitelist data support clear mac address table support Mac address binding support Max mac qualities settings support Blacklist data support Violation mode
Port isolate	
LOOPBACK	
DAI	support software DAI entry qualities
SNMP	Supporting version(SNMPV1,V2c,V3)
Web management	support Web management
	support HTTP V1.1
	support HTTPS
RMON	support RMON (1,2,3,9)
system upgrade	support System upgrade or page upgrade via tftp
save Configuration	support save Configuration
Configuration management	support Import, export, backup configuration, restore factory configuration

Syslog/Debug	support Syslog/Debug
Security function	
Basic characteristics	support login authentication(password, none)
Password security	support Static password encryption transmission, storage
	support Strong password and password minimum length check
Radius	support Radius
	support Specify multiple groups of servers ip
Tacacs+	support TACACS+
	support Specify multiple groups of servers ip
ssh	support SSHv2.0
Anti-dos attack	support Interrupting Land attack packets and illegal TCP packets
dot1x	support 802.1X
	support port base
	support mac base
	support MAB
	support Multiple account switching
Defense gateway ARP spoofing	support Defense gateway ARP spoofing
IP SOURCE GUARD	support IP SOURCE GUARD
CPP	support hardware CPP
ARP Check	support IP+MAC data binding using DHCP SNOOPING
	support Leverage 1X IP+MAC data binding
	support leverage IP+MAC data binding of IP SOURCE GUARD
	support Trusted ARP
Web management	support HTTP Access
DHCP Relay	support Allow configuration of the number of servers
DHCP snooping	support Option82
	Supporttrust Port Configuration
	SupportIP、MAC binding table(ip source guard)
	SupportBind to logical ports (including physical interfaces)
	SupportSoftware binding database capacity
	Supportbind to VLAN

DHCP server	Support binding table Configuration
	Support Address pool configuration
Telnet	Support Telnet
	Support Maximum number of connections
TFTP	Support TFTP Client
FTP	Support FTP Server
	Support FTP Client
ERPS	Support Delete ERPS Loop
	SupportErps Loop Configuration
	SupportErps time Configuration
static and dynamic lacp link aggregation	SupportLacp Configuration
	Support Load-Balance Method
	dst-ip            Destination IP address
	dst-mac         Destination MAC address
	src-dst-ip      Source and destination IP address
	src-dst-mac    Source and destination MAC address
	src-ip           Source IP address
	src-mac         Source MAC address
Support link aggregation groups qualities	
Support max link aggregation qualities of each link aggregation group	
Support link aggregation port configuration	

**Zhejiang Uniview Technologies Co.,Ltd.**

Building No.10, Wanlun Science Park, Jiangling Road 88, Binjiang District, Hangzhou, Zhejiang, China

Email: [overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)

<http://www.uniview.com>

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