**NSW5110-18GP8GT-DT Managed Ethernet Switch**

## Overview

The Switch provides 16\*1000Mbps SFP Slot, 2\*1000Mbps SFP Slots and 8\*10/100/1000Mbps RJ45 ports, powerful and flexible enough for users to deploy wireless access points or IP-based network surveillance cameras. The switch also comes equipped with 2G SFP slots, expanding your network flexibly. In addition, it provides high performance, enterprise-level QoS, advanced security strategies and rich layer 2 management features. With all these advanced features, the Switch is an ideal choice for WIFI coverage, Internet cafes, computer rooms, and so on.

* NSW5110-18GP8GT-DT



## Key Features

* Conform to the IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x standard;
* RJ45 supports automatic port rollover (Auto MDI/MDIX) ;
* Panel lights to monitor working state and help fault analysis
* Supports IEEE802.3x full duplex flow control and Backpressure half duplex flow control
* 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
* Data exchange adopts store-and-forward mode and line speed forwarding can be intelligently identified

## Specifications

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| **Model** | 16G SFP+8GE+2G SFP |
| Ports | 16\*1000Mbps SFP Slots 2\*1000 SFP Slots 8\*10/100/1000Mbps RJ45 ports1\*Console Port |
| Standards | IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.1X, IEEE802.1q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.3ad |
| Switching capacity | 52Gbps |
| Forwarding performance | 38.69Mpps |
| Packet Buffer | 4.1M bit |
| Jumbo frame | 10000Byte |
| MAC Address | 8K, Auto-learning, Auto-aging |
| Dimensions (L×W×H) | 280\*180\*44mm |
| Weight | <3.6kg |
| Power supply | AC: 100-240V, 50/60Hz |
| Surge Protection | Common mode ±4KV, Different mode ±2KV |
| Electrostatic standard | Contact±6KV, Air±8KV |
| Fan Quantity | 1pcs |
| Mean Time Between Failure (MTBF) | >100000 hours |
| Operating temperature | 0°C-40°C (32°F-104°F) |
| Operating humidity | 10%～90% (noncondensing) |
| Storage humidity | 5%～90% (noncondensing) |

**Software Specification**

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| **L2 Features** |
| MAC Address Table | MAC Address Size |
| MAC Aging Time |
| MAC Filter |
| MAC Notification |
| Basic Management | Console/Telnet/SSH |
| Http/Https,SSL/TLS |
| FTP/TFTP |
| Syslog |
| SNMP(v1/v2c/v3),SNMP Trap |
| SNTP/NTP |
| CPU protect |
| Software/Hardware watchdog |
| Firmware Upgrade/Backup |
| Ping/Traceroute |
| Port Config | Bandwidth Control |
| Flow Control |
| EEE |
| MTU |
| CFM(802.1ag) |
| EFM OAM(802.3ah) |
| DDM |
| Storm Control |
| Port Isolation |
| Port Security |
| Virtual Cable Test |
| ULDP/Cisco UDLD |
| Discovery | LLDP(802.1ab) |
| LLDP-MED |
| Link Aggregation | Static |
| LACP(802.3ad) |
| Load Balance(src-mac/dst-mac/src-ip/dst-ip) |
| Max groups and ports per group |
| VLAN | VLAN(802.1Q 4K) |
| Access/Trunk/Hybrid |
| Private VLAN |
| VLAN Filter |
| MAC-based VLAN |
| Protocol-based VLAN |
| IP Subnet-based VLAN |
| Voice VLAN |
| GVRP/GMRP |
| QinQ/Selective-QinQ/Flexible QinQ |
| VLAN Translation/N:1 VLAN Translation |
| Guest VLAN |
| Network Loop Detection | Loopback Detection |
| ERPS |
| Spanning Tree | STP/RSTP/MSTP |
| MSTP Support 64 instance |
| BPDU Guard/Root Guard/BPDU Tunnel |
| ARP | Static ARP |
| ARP Scanning Prevention |
| ARP Spoofing Prevention |
| ARP Guard |
| Gratuitous ARP |
| Dynamic ARP Inspection |
| ARP Quantity Control |
| **IPv4 Related Function** |
| ICMP | Anti ICMP Attack |
| ICMP Rate Limit |
| ICMP Unreachable Drop |
| IP Forward | Static Route |
| Route Aggregation |
| Control Multicast | DCSCM |
| Multicast VALN | Multicast VALN |
| IGMP | IGMP SNOOPING V1/V2/V3 |
| Fast Leave |
| IGMP Proxy |
| DHCP | DHCP Server |
| DHCP Client/BOOTP |
| DHCP Relay |
| DHCP Snooping |
| DHCP Option 82/43/60/61/67 |
| **IPv6 Related Function** |
| IPv6 Basic | IPv6 ND Snooping |
| DHCPv6 | DHCPv6 Server |
| DHCPv6 Relay |
| DHCPv6 Snooping |
| IPv6 SAVI |
| Security RA |
| IPv6 Unicast Routing | Static Route |
| IPv6 Multicast Routing | MLD v1/V2 Snooping |
| IPv6 Features | SNMP over IPv6 Support |
| HTTP over IPv6 Support |
| SSH over IPv6 Support |
| DNS over IPv6 Support |
| IPv6 ping/traceroute Support |
| IPv6 Telnet Support |
| IPv6 Radius+ Support |
| IPv6 Tacacs+ Support |
| IPv6 SNTP/NTP Support |
| IPv6 FTP/TFTP Support |
| IPv6 IPSec Support |
| IPv6 ACL |
| **QoS(Quality Of Service)** |
| Basic | Trust COS/DSCP |
| Trust Port |
| Scheduling | SP |
| WRR |
| WDRR |
| PolicyMap Stream | Based on VLAN |
| Based on COS/DSCP |
| Aggregate PolicyMap |
| Ingress PolicyMap |
| Policing | CAR Stream Shaping(leak algorithm) |
| Ingress Policing |
| Rewrite | COS/802.1p Priority |
| IP Precedence |
| IPv4 DSCP/IPv6 DSCP |
| drop-precedence |
| internal-priority |
| Ingress/Egress Rewrite |
| Queuing | DSCP to DSCP mapping |
| DSCP to DP mapping |
| DSCP to Queue mapping |
| COS to DP mapping |
| COS to Queue mapping |
| **ACL** |
| IP-ACL | SIP/DIP |
| IP Protocol |
| IP Priority(DSCP,TOS, Precedence) |
| TCP,UDP src,dst Port |
| MAC-ACL | SRC/DST MAC |
| VLAN |
| COS |
| Tag/Untag |
| IP-MAC ACL | MAC-ACL and IP-ACL |
| User-defined ACL | Base on user defined profile |
| ACL Features | Based on time period ACL |
| ACL on VLAN |
| Based on ACL Stream |
| **Security** |
| 802.1x | Port Based Authentication |
| Support EAPoR |
| MAC based Authentication |
| Guest VLAN |
| MAB | Based on Port Authentication |
| Based on MAC Authentication |
| MAC Address Count Limit | Based on Port |
| Based on VLAN |
| IP Address Count Limit | Based on Port |
| Based on VLAN |
| Access Management | Based on source mac and IP address |
| Deny DoS Attack | TCP Flag |
| TCP Flagment |
| IP Segment |
| ICMP |
| TACACS+ | Standard Support |
| Radius | Standard Support |
| Client, Support MD5 |
| SSL | Openssl 1.1.0 |
| **Redundancy Related Function** |
| MRPP | Compatiable ERRP |
| ULPP | Uplink Protection Protocol |
| Smart Link/Monitor Link |
| ULSM | Uplink State Monitor |
| **Flow Monitor Function** |
| Mirror | Support one to one, multi to one |
| Port based mirror, support ingress, egress, and both |
| CPU based mirror |
| Flow based mirror |
| RSPAN |

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