



SN-NSW10P8A

8 Ports Gigabit Managed Ethernet PoE Switch



Key Features

- 8 × Gigabit PoE port, 2× Gigabit fiber optical port
- Conform IEEE802.3, IEEE802.3u, IEEE802.3ab/z and IEEE802.3x standards
- Support 802.1Q VLAN
- Support cable detection
- Support DHCP Snooping
- IP30 rating with intrusion and moisture protection.
- 6KV Surge Protection

Specification

Ports	
Ports	8 × 10/100/1000 Base-T RJ45 ports (Data/Power) 8 × 100/1000 Base-X SFP fiber optical ports (Data) 1 × Console RS232 port (115200, N, 8, 1)
Ethernet Characteristics	Ports 1-8 support auto-detection of 10/100/1000Base-T(X) and full/half-duplex MDI/MDI-X adaptive features
Transmission	10BASE-T: Cat3,4,5 UTP (≤ 100 meter) 100BASE-TX: Cat5 or later UTP (≤ 100 meter) 1000BASE-T: Cat5e or later UTP (≤ 100 meter)
Optical Port Function	Gigabit SFP fiber optical port, default no include optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/Distance	Multi-mode: 850nm / 0 to 500m Single-mode:1310nm / 0 to 40 km, 1550nm / 0 to 120km
Parameters	
Communication Standard	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x, IEEE 802.1q, IEEE 802.3ad, IEEE 802.3q/p, IEEE 802.1w, IEEE 802.1d, IEEE 802.1s
Layer OSI	Layer 2+
Forwarding Mode	Store forwarding (Full wire speed)
Switching Capacity	128Gbps
Packet Forwarding Rate	14.88Mbps
MAC Table Size	8K
Packet Buffer Memory	4.1M
CPU	500Mhz
RAM	1G
Flash	128M
Jumbo Frame	10K
LED Indicating Lamp	Power indicator: PWR (green), System indicator: SYS (green), Network indicator: Link (yellow), Optical port: L/A (green), POE indicator: PoE (green)
PoE Power Supply	
PoE Standard	Ports 1-8 support IEEE 802.3af/at standard PoE power supply
PoE Pin Assignment	Default: 1/2(+), 3/6(-), 4 core power supply
Maximum Power Per Port	30W
Total Power/Input Voltage	120W – 150W
General	
Power Supply	Built-in power: 100–240 VAC, 50/60 Hz, 2.3 A
Power Consumption	Idle: < 8W, Full load: < 120W
Operating Temperature/Humidity	–20°C to +55°C (–4°F to +131°F), 5%–90% (RH)
Storage Temperature/Humidity	–40°C to +75°C (–40°F to +167°F), 5%–95% (RH)

Product Dimensions	270 mm × 181 mm × 44.5 mm (10.63" × 7.13" × 1.75") (W × L × H)
Net Weight	1.2kg (2.65lb)
Gross Weight	1.7kg (3.75lb)
Protection Level	4KV 8/20us, IP30
Safety Certification	CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS.
Software Function	
Layer 3 Functionality	Support L2+ network management function, Support IPV4 static routing/default routing, maximum 128 entries, Support ARP protocol, maximum 1024 entries.
Spanning Tree Protocol	STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) EPPS ring network protocol EAPS ring network protocol 802.1x argumentation agreement)
VLAN	Supports port-based VLAN (4K), IEEE 802.1q Supports protocol-based VLAN Supports configuration of Access, Trunk, and Hybrid port types.
Multicast	Supports IGMP Snooping v1/v2/v3, with a maximum of 1024 multicast groups Supports fast leave mechanism for users Supports MLD Snooping v1/v2 Supports multicast VLAN
Port Aggregation	LACP, Static aggregation, support aggregation groups and max 8 ports per group
Port Mirroring	Support bidirectional traffic mirroring on basic ports
Port Flow Control	Half duplex based back pressure control, Full duplex based on PAUSE frames
QoS	Diff-Serve QoS Each port supports 8 output queues Supports 802.1p/DSCP priority mapping Support queue scheduling mechanisms (SP, WRR, SP+WRR) Support for priority marking and remarking Support for flow-based packet filtering Support for flow-based redirection Support flow-based rate limiting
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, VLAN, etc. ACL based on port and VLAN
Security	User classification management and password protection are supported. IEEE 802.1X authentication based on ports is supported. AAA & RADIUS authentication is supported. MAC address learning limit and MAC address blackhole are supported. SSH 2.0 is supported to provide a secure encrypted channel for user login. SSL is supported to ensure data transmission security. Port isolation is supported. ARP packet rate limiting function is supported. IP source address protection is supported. ARP intrusion detection function is supported. DoS attack prevention is supported. Port broadcast packet suppression is supported. Host data backup mechanism is supported. Four-element binding function of IP + MAC + VLAN + Port is supported.
DHCP	DHCP Server, DHCP Client, DHCP Relay, DHCP Snooping
Loop Guard	Loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking, automatic recovery
Management and Maintenance	Console/ AUX Modem/ Telnet/ SSH2.0 CLI WEB management (HTTPS) PoE power management Loop Guard Download & Management on FTP, TFTP, Xmodem, SFTP SNMP V1/V2C/V3 One-key recovery NTP System work log Ping Test Cable Diagnose CPU instant utilization status view Li Layer Discovery Protocol, LLDP