



SN-NSW20P16A

16 Ports Gigabit Managed Ethernet PoE Switch



Key Features

- 16 × Gigabit PoE port, 4 × Gigabit fiber optical port, 1× Console RS232 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 Parameters	
Ports	16 × Gigabit PoE ports (Data/Power) 4 × Gigabit SFP fiber optical ports (Data) 1 × Console RS232 control port
Ethernet Characteristics	Ports 1-16 support auto-detection of 10/100/1000Base-T(X) and full/half-duplex MDI/MDI-X adaptive features
Transmission	10 BASE-T: Cat3, 4, 5 UTP (≤ 100 meter) 100 BASE-TX: Cat5 or later UTP (≤ 100 meter) 1000 BASE-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
Network Parameters	
Communication Standard	IEEE 802.3 10 BASE-T, IEEE 802.3i 10 BASE-T, IEEE 802.3u 100 BASE-TX, IEEE 802.3ab 1000 BASE-T, IEEE 802.3z 1000 BASE-X, IEEE 802.3x
Forwarding Mode	Store forwarding (Full wire speed)
Switching Capacity	192Gbps
Packet Forwarding Rate@64byte	29.76Mbps
MAC Table Size	8K
Packet Buffer Memory	4.1Mbit
Jumbo Frame	10Kb
One-Click Restore Switch	Press and hold for 6 seconds, then release to restore to factory default settings
LED Indicating Lamp	Power indicator: PWR (yellow), System indicator: SYS (yellow), Network indicator: Link/Act (yellow), Optical port: L/A (green), POE indicator: PoE (green)
PoE Power Supply	
PoE Standard	Ports 1-16 support IEEE 802.3af/at standard PoE power supply
PoE Management	Support PoE power supply total power limit configuration Supports PoE output power distribution per port, PoE on/off, af/at power distribution Supports per-port PoE output priority configuration Supports PoE working status display for each port Support power delayed start Support PoE work and time scheduling
PoE Pin Assignment	Default: 1/2(+), 3/6(-), 4 core power supply
Maximum Power Per Port	30W
Total Power/Input Voltage	230W
General	
Power Supply	Built-in power: 100–240 VAC, 50/60 Hz, 4.1 A
Power Consumption	Idle: < 16W, Full load: < 250W
Operating Temperature/Humidity	–20°C to +55°C (–4°F to +131°F), 5% to 90% (RH)
Storage Temperature/Humidity	–40°C to +75°C (–40°F to +167°F), 5% to 95% (RH)
Product Dimensions	440 mm × 290 mm × 44.5 mm (17.32" × 11.42" × 1.75") (W × L × H)
Net Weight	4.0 kg (8.82 lb.)
Gross Weight	4.5 kg (9.92 lb.)

Protection Level	6KV 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 route/default route, maximum of 128 entries Support ARP protocol, maximum of 1024 entries
VLAN	Supports port-based VLANs (4K), IEEE802.1q Supports protocol-based VLANs Supports configuration of Access, Trunk, and Hybrid port types
Multicast	IGMP Snooping v1/v2, Max 1024 multicast Fast log out Multicast VLAN
Port Aggregation	LACP Static aggregation Max 10 aggregation groups and max 8 ports per group
Port Mirroring	Support bidirectional traffic mirroring on basic ports
QoS	Diff-Serve QoS Each port supports 8 output queues Supports 802.1p/DSCP priority mapping Support queue scheduling mechanisms (SP, WRR, SP+WRR) Supports priority marking (Mark/Remark) 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 Snooping
Management and Maintenance	Console/ AUX Modem/ Telnet/ SSH2.0 CLI WEB management (HTTPS) 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 Link Layer Discovery Protocol, LLDP

Dimensions (mm)

