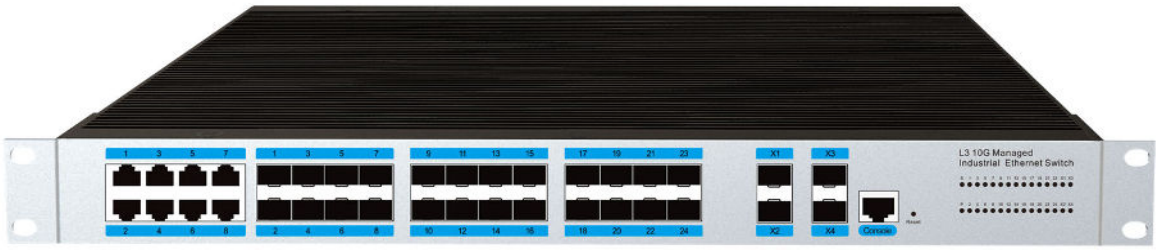
4N-T2408SFP

36 Port 10G Uplink L3 Managed Industrial Ethernet Switch



LOOP ROTECTION VLAN 6KV LIGHTING PROTECTION

Product Overview

The 4N-T2408SFP is a 10G uplink L3 managed industrial Ethernet fiber switch independently developed by 4NSYS. It has 16* 100/ 1000Base-X SFP ports and 8* Combo (10/100/1000Base-T+100/1000Base-X) and 4* 1/ 10G SFP+ fiber slot ports. Each port can support wire-speed forwarding.
The 4N-T2408SFP has L3 network management function, supports IPV4/IPV6 management,dynamic routing full line-speed forwarding, complete security protection mechanism, perfect ACL/QoS policy, and rich VLAN functions, easy to manage and maintain. With industry-leading ring network technology.

Key Features

- Supports Gigabit Ethernet port and 10G SFP+ uplink port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support ERPS ring network and STP/RSTP/MSTP to eliminate layer 2 loops and realize link backup.
- Support IGMP V1/V2/V3 multicast protocol, IGMP Snooping meets multi-terminal high-definition video surveillance and video conference access requir
- Low power consumption, No fan, aluminum shell.
- The user-friendly panel can show the device status through the LED indicator of PWR,Link.
- Support Web network management, CLI command line (Console, Telnet), SNMP (V1/V2/V3) and other diversified management and maintenance.
- Support HTTPS, SSLV3, SSHV1/V2 and other encryption methods, making management more secure.
- CCC, CE, FCC, RoHS.

Model	4N-T2408SFP	
Interface Characteristics		
Fixed Port	4*1/10G uplink SFP+ ports 16*100/1000Base-X SFP ports 8*Combo (10/100/1000Base-T+100/1000Base-X) 1*Console port	
Ethernet Port	Port 1-24 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)	
Optical Fiber Port	1/10G SFP+ optical fiber port, default no include optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Fiber Port Expansion	Support Turbo overclocking 2.5G optical module expansion and ring network	
Optical Cable/ Distance	Multi-mode:850nm /0~300M(10G) ,850nm /0~500M (1.25G); Single-mode:1310nm/ 0~40KM,1550nm/ 0~120KM.	
Chip Parameter		
Network Management Type	Layer 3	
Ring network	Supports ERPS ring network function, with a maximum number of rings of 5 and a convergence time of<20ms	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3ae10GBase-LR/SR, IEEE802.3x	
Packet Forwarding Mode	131Mpps	
Switching Capacity	180Gbps	
Packet Buffer Memory	95MB	
MAC Address	32K	
LED Indicator	PowerIndicatorLight	P：1 Green
	Fiber Indicator Light	F：1 Green (Link,SDFED)
	On the RJ45 seat	Yellow:Indicate PoE
		Green: Indicates network working status
Reset Switch	Yes, Press and hold the reset switch for 5s and release it to restore the factory settings	

Power	
Working Voltage	DC36-72V, 4 Pin industrial phoenix terminal, support anti-reverse protection
Power Consumption	Standby<35W, Full load<450W
Power Supply	AC100-240V 50/60Hz industrial power supply
Certification & Warranty	
Lightning Protection	Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V, 1s FCC Part 15/CISPR22(EN55022):Class B IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Physical Parameter	
Operation TEMP /Humidity	-40~+80°C, 5%~90% RH Non condensing
Storage TEMP /Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	440mm* 300mm*44mm
Installation	Desktop, 19 inch 1U cabinet installation

Network Management Features	
L3 Function	Support L3 network management function Supports IPV4 dynamic routing RIPv1/v2、0SPFv2 Supports IPV4/IPV6 static routing/default routing, each supporting a maximum of 128 entries Supports three-layer routing forwarding, supports communication between different network segments and VLANs
Port configuration	Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor Traffic statistics
Link Aggregation	Static link aggregation LACP Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
VLAN	4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP
ACL	256ACLs L2, L3 e L4 Time-based ACL
Spanning tree	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP) Loop Guard Root Guard TC-BPDU Guard BPDU Guard BPDU Filter
Ring Protection	<20ms G.8032 ERPS Ring
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN
QOS	port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port

DHCP	SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTP Configuration Backup/Reload Dual Firmware LLDP
Security Features	Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping) ARP Protection DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type; 802.1x Authentication (port-based e MAC-based) TACACS/TACACS+ Authentication RADIUS Authentication DHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1 SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC and Port; Port Isolation Loopback detection
Other Features	DNS Client DHCP Relay DHCP Client DHCP Snooping DHCP Option 82 SNTP Client UDLD
Maintenance	Cable Diagnostics Ping SFP DDM(Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring

4NSYS Co., Ltd.

South Korea

3F Hana Bldg, 118-2 Oryu-Dong, Guro-Gu, Seoul, Korea, 152100, Korea (South)

Tel : +82-2-2685-7300 Email : sales@4nsystech.com

www.4nsystech.com