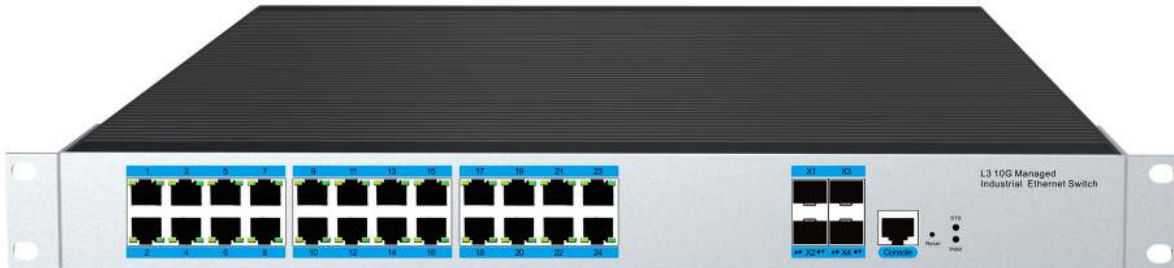


# 4N-HY4T024GT-SFP

28-port 10G Uplink L3 Managed Industrial Ethernet Switch



LOOP PROTECTION



VLAN



6KV LIGHTING PROTECTION

## Product Overview

4N-HY4T024GT-SFP is a 10G uplink L3 managed industrial Ethernet fiber switch designed for high-performance industrial networks. It features 24 × 10/100/1000Base-T RJ45 ports and 4 × 1/10G SFP+ fiber ports, supporting full wire-speed forwarding on all ports.

The switch supports IPv4/IPv6 management, dynamic routing, VLAN, ACL, and QoS, providing advanced network control and security. It also supports industrial ring network protocols with ERPS self-healing (<20 ms) to ensure high network reliability.

Designed for harsh industrial environments, the device features an aluminum alloy housing for efficient heat dissipation, IP40 protection, and AC/DC dual redundant power supply. It provides stable and reliable communication for applications such as intelligent transportation, rail transit, power systems, mining, petroleum, metallurgy, and energy infrastructure.

## Key Features

- 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 require
- 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-HY4T024GT-SFP	
<b>Interface Characteristics</b>		
Fixed Port	4* 1/10G uplink SFP+ ports 24* 10/100/1000Base-T RJ45 ports 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.	
<b>Chip Parameter</b>		
Network Management Type	L3	
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	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	128Gbps	
Buffer Memory	96Mpps	
MAC	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	
Power Supply	AC:100-240V 50/60Hz; DC: 36-72V(72W built-in dual power supply)
Certification & Warranty	
Lightning Protection	<p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4-10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV</p> <p>IEC61000-4-16(common-mode transmission):30V; 300V, 1s</p> <p>FCC Part 15/CISPR22(EN55022):Class B</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
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	<p>Support L3 network management function</p> <p>Supports IPV4 dynamic routing protocol RIP(v1/v2)、 OSPF (v2)</p> <p>Supports IPV4/IPV6 static routing/default routing, each supporting a maximum of 128 entries</p> <p>Supports three-layer routing forwarding, supports communication between different network segments and VLANs</p>
Port configuration	<p>Auto-negotiation</p> <p>Flow Control</p> <p>Port Mirror: TX/RX/BOTH; Many-to-1 monitor</p> <p>Traffic statistics</p>
Link Aggregation	<p>Static link aggregation</p> <p>LACP</p> <p>Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP</p>
MAC Table	<p>Aging Time</p> <p>Static MAC address</p> <p>Dynamic MAC address management</p>
VLAN	<p>4094 Active VLANs</p> <p>4094 VID</p> <p>802.1Q Tag VLAN</p> <p>Port VLAN</p> <p>Protocol VLAN</p> <p>MAC VLAN</p> <p>Voice VLAN</p> <p>802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP</p>
ACL	<p>256ACLs</p> <p>L2, L3 e L4</p> <p>Time-based ACL</p>
Spanning tree	<p>802.1D Spanning Tree Protocol (STP)</p> <p>802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP) Loop Guard</p> <p>Root Guard</p> <p>TC-BPDU Guard</p> <p>BPDU Guard BPDU Filter</p>
Ring Protection	<p>&lt;20ms G.8032 ERPS Ring</p>
Multicast	<p>256 groups</p> <p>IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping</p> <p>Multicast VLAN</p>
QOS	<p>port-based</p> <p>CoS 802.1p-based CoS</p> <p>DSCP-based</p> <p>Scheduling algorithms SP, WRR, SP+WRR</p> <p>Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port</p>

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



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