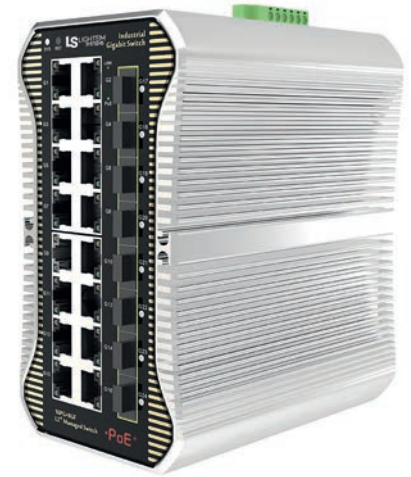


24 Ports 10/100/1000M SMART Industrial POE switch with 16x 1000M RJ45 (1-16port POE) & 8x 100/1000M SFP

SMART Industrial POE switch Fiber Switch LIMPOX24-8SFP is a 16x 10/100/1000M Base-T RJ45 (1-16ports POE) and 8x 100/1000M Base-X SFP ports. Port 1-16 can support IEEE802.3af/at standard POE, single port POE power up to 30W. It consumes low power consumption, supports wide operating temperature (-40 to +80 degree). Its casing is IP40 rated and meet EMC industrial level 4 requirements. These switches are specially designed for harsh industrial environments. It is suitable for wind power, subway PIS, power SCADA, sewage treatment,metallurgy, intelligent transportation systems applications.



FEATURES

- 16x 10/100/1000M RJ45 (16 ports POE) + 8x 1G Base-X SFP ports
- IEEE 802.3af/at PoE standard, without damaging non-PoE devices
- L2+ full network management features provide better manageability, security, QoS, and performance..
- Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms).
- Support enhanced management through port traffic control, WEB, CLI, TELNET, SSH, SNMP and cable diagnosis
- IEEE802.1Q VLAN, flexible VLAN division,Voice VLAN and QinQ configuration.

SPECIFICATIONS

Interface Characteristics	
Ports	16x 10/100/1000M RJ45 (1-16 port POE) , 8x 1G SFP
	1x RS232 console port(115200,N,8,1)
	2x V+, V- redundant DC power interface (6 Pin Phoenix terminal)
Network Management Type	L2+
Ethernet Port	Port 1-16 support 10/100/1000Base-T,auto-sensing,Full/half duplex ; MDI/MDI-X self-adaption
Optical Fiber Port	Gigabit SFP optical fiber interface, default matching optical modules
SFP Port Expansion	Turbo overclocking 2.5G optical module and ring
Twisted Pair 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 Cable/ Distance	Multi mode: 850nm / 0 ~ 500M, single mode: 1310nm / 0 ~ 40KM, 1550nm / 0 ~ 120KM.
Network Protocol and Standards	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX , IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X ;IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	256 Gbps
Forwarding Rate@64byte	35.71 Mpps
MAC	8K
Buffer Memory	8M
Jumbo Frame	9.6K
LED Indicator	Power Indicator : PWR (green); System Indicator :SYS (green); Network Indicator: Link/ (yellow);SFP Indicator: L/A (green);
Reset Switch	Yes. press and hold for 10 seconds to factory setting mode
POE power / Max Power Per Port	Default: 1/2 (+), 3/6 (-) ; 30W, IEEE802.3af/at
Operating temperature / humidity	-40 to 80 °C / 5 ~ 90% RH non condensation
Storage temperature / humidity	-40 to 85 °C / 5 ~ 95% RH non condensation
Working Voltage	48-57VDC, 6 Pin industrial Phoenix terminal, support anti-reverse protection
Power Consumption	Standby<15W, Full load<240W
Dimensions	166x 149x 89 mm
Weight	2kg
Installation	Desktop, DIN rail

Certification & Warranty	
lightening protection / protection level	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 ; FCC Part 15/CISPR22(EN55022):Class A IEC61000-4-10(damped oscillation):30A/m 1MHz ; IEC61000-6-2(Common Industrial Standard) ; IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV ; IEC61000-4-16(common-mode transmission):30V; 300V,1s
Mechanical Properties	IEC60068-2-6 (anti vibration) ; IEC60068-2-27 (anti shock) ; IEC60068-2-32 (free fall)
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;
Network Management Features	
Interface	IEEE802.3X (Full-duplex) ; Port temperature protection setting ; Port green Ethernet Energy-saving setting Broadcast storm control based on port speed ; The speed limit of the message flow in the access port. The minimum particle size is 64Kbps.
Layer 3 Features	L2+ network management ,IPV4/IPV6 management ; L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	4K VLAN based on port, IEEE802.1q; VLAN based on the protocol ; VLAN based on MAC Voice VLAN, QinQ configuration ; Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation ; Max 12 aggregation groups and 8 ports per group
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
Industrial Ring Network Protocol	G.8032 (ERPS),Recovery time less than 20ms ; 250 Ring at most, Max 1024 devices per ring.
Multicast	MLD Snooping v1/v2,Multicast VLAN ; IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	Flow-based Rate Limiting ; Flow-based Packet Filtering ; 8*Output queues of each port 802.1p/DSCP priority mapping ; Diff-Serv QoS,Priority Mark/Remark; Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL,ACL based on port and VLAN ; 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, and VLAN, etc.
Security	IP-MAC-VLAN-Port binding; ARP inspection,Anti-DoS attack; AAA & RADIUS,MAC learning limit; Mac black holes,IP source protection; IEEE802.1X & MAC address authentication; Broadcast storm control,Backup for host datum ; SSH 2.0,SSL,Port isolation,ARP message speed limit User hierarchical management and password protection
DHCP	DHCP Client,DHCP Snooping, DHCP Server,DHCP Relay
Management	One-key recovery ; Cable Diagnose,LLDP ; Web Management (HTTPS) ; NTP,System work log,Ping Test; CPU instant utilization status view ; Console/AUX Modem/Telnet/SSH2.0 CLI Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP V1/V2C/V3 ONV NMS - smart network management system platform(LLDP+SNMP)
System	Category 5 Ethernet network cable ; Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 ; or higher, Microsoft Internet Explorer10 or later; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network)

FUNCTIONAL DIAGRAM



ORDERING INFORMATION

PN	DESCRIPTION
LIMPOX24-8SFP	24 Ports 10/100/1000M SMART Industrial POE switch with 16x 1G RJ45 (16 port POE) & 8x 1G SFP Ports
x-	F: IEEE802.3af (15.4W per port)
	T: IEEE802.3at (25.5W per port)
PEA-52-500	Power adaptor 220VAC~52VDC: 500W
PEA-52-700	Power adaptor 220VAC~52VDC: 700W