8 Ports 10/100/1000M Industrial Fiber POE Switch with 4x RJ45 and 4x1G SFP

LIMPOX8-4SFP is a 4x 10/100/1000M POE RJ45 port and 4x 1G SFP port Industrial POE switch. It has L2+ network management function to support IPV4/ IPV6 management. Its protection leve is IP40 and meet EMC industrial level 4 requirements. Features 6KV lightning protection which is important for harsh outdoor environment and ensure the reliability of the uninterrupted system.

FEATURE

- 4x 10/100/1000M RJ45 POE and 4x 1G SFP
- Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Supports IEEE 802.3af (15.4W per port) and 802.3at (30W per port)
- RJ45 PortsAUTO Negotiation/AUTO MDI/MDIX
- Standard IU rack mount/Desktop design
- Support non-blocking wire-speed forwarding
- Support ERPS ring network and STP/ RSTP/ MSTP to eliminate layer 2 loops and realize link backup
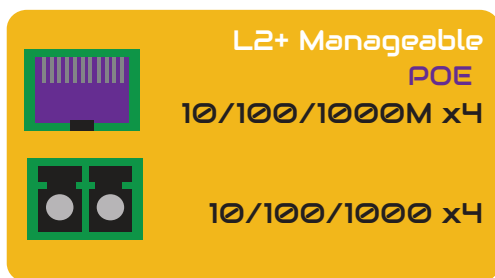
SPECIFICATIONS

Number of POE port (10/100/1000BaseT)	4
Number of SFP port (100/1000Base-X)	4
Console port	1*RS23 Console port (115200,N,8,1)
5 Pin Phoenix terminal	2 set of V+, V- redundant DC power interface
Ethernet Port	Port 1-4 support 10/100/1000Base-T 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)
SFP Slot Port	Gigabit optical fiber interface, default no include optical module
	(optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm /0-550m ; Single-mode: 1310nm /0-40km, 1550nm/ 0-120km.
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX;
	IEEE802.3ab 1000Base-TX, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	16 Gbps
Forwarding Rate@64byte	11.9Mpps
CPU	416MHz
DRAM	1G
FLASH	128M
MAC	8K
Buffer Memory	4M
Jumbo Frame	9.6K
LED Indicator	Fiber port: L/A (Green), PoE: PoE (Green) ; Power/ System: SYS (Green), Network: Link (Yellow)
Reset Switch	Yes (Press and release for 10 seconds, the PoE switch will restore to factory settings)
Operation TEMP / Humidity	-40 ~ 80°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40 ~ 85°C, 5%~90% RH Non condensing
Dimension(LxWxH)	145 x 134.5 x47mm
Weight	0.75kg / 1.0kg

Power Supply Pin	1/2(+) 3/6 (-)
PoE Port Management	POE Port 1-4 ; PoE power supply total power limit configuration ; Power delay start, PoE work and time scheduling
	Port PoE working status display, Port PoE output priority configuration;
	Port PoE output power distribution, PoE on/off, af/at power distribution
Max Power Per Port	30W, IEEE 802.3 af/at
Power Consumption	Standby<7W, Full load af<60W, at<120W
Input Voltage/ Interface	DC48-57V, 5Pin industrial phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply
Certification & Warranty	
Lightning Protection	Protection level: IP40; Lightning protection: 6KV 8/20us ; IEC61000-4-3 (RS):10V/m (80~1000MHz);
	FCC Part 15/CISPR22 (EN55022): Class B; IEC61000-6-2 (Common Industrial Standard)
	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 ; IEC61000-4-4(EFT): Power cable: ±4kV; data cable: ±2kV
	IEC61000-4-16 (Common-mode transmission): 30V, 300V,1s ;
	IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge ;
	IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) ;
	IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m,1s to 3s ;
	IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV
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
Network Management Feature	
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, mini particle size is 64Kbps.
L3 Features	ARP protocol max 1024 entries; Static routing/ default routing max 128 entries;
	L2+ network management, IPV4/IPV6 dual stack management;
	L3 routing and forwarding, support communication between different network segments and different VLAN
VLAN	Port configuration of Access, Trunk, Hybrid; VLAN based on MAC, Voice VLAN, QinQ configuration;
	4K VLAN based on port, IEEE802.1q, VLAN based on the protocol
Port Aggregation	LACP, Static aggregation ; Max 4 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Industrial Ring Network Protocol	250 Ring at most, Max 250 devices per ring ; G.8032 (ERPS), Recovery time less than 20ms
Multicast	MLD Snooping , Multicast VLAN; IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS, Priority mark/ remark; Queue scheduling algorithm (SP, WRR, SP+WRR)
	Flow-based rate limiting, Flow-based packet filtering
	8*Output queues of each port, 802.1p/ DSCP priority mapping
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	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 ; Anti-DoS attack, AAA& RADIUS &TACACS+ certification;
	IP-MAC-VLAN-Port binding, ARP inspection, MAC learning limit
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay

Management	CPU real-time utilization status view, SNMP V1/V2/V3 ; ONV-NMS platform cluster management (LLDP+SNMP) ;	
	Console/ AUX Modem/ Telnet/ SSH2.0, CLI configuration ;	
	Cable length status detection, NTP clock, One-key recovery, LLDP	
	FTP, TFTP, Xmodem, SFTP file upload and download management	
System	Ping detection, System work log, Web network management (HTTPS)	
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Cat5 and above Ethernet cable	
	TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, Mac OS X)	
	installed on each computer in the network Cat5 and above Ethernet cable	

FUNCTIONAL DIAGRAM

ORDERING INFORMATION

PN	DESCRIPTION
LIMPOX8-4SFP	8 Ports 10/100/1000M Industrial POE Switch with 4x RJ45 and 4x 1G SFP ports
x-	F: IEEE802.3af (15.4W per port)
	T- IEEE802.3at (30W per port)
PEA-52-65	Power Adaptor 220VAC ~52V @65W