

TELECOM/DATACOM SYSTEM

6 Ports 10/100/1000M SMART Industrial UPOE switch with 4x 10/100/1000M RJ45 @UPOE & 2x 1G SFP

LIMPOX6-4PU-2SFP is a 4x 10/100/1000M UPOE RJ45 and 2x 1G SFP port SMART Industrial UPOE switch. Its casing is IP40 rated and meet EMC industrial level 4 requirements. Features 3KV network port surge protection which is important for harsh outdoor environment and ensure the reliability of the uninterrupted system.



FEATURES

- 4x 10/100/1000M UPOE RJ45 + 2x 1G SFP
- Supports IEEE 802.3bt (Max 90W / single port)
- Supports IEEE 802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode
- IP40 protection
- Support Din Rail Mount
- RJ45 Ports AUTO Negotiation/AUTO MDI/MDIX
- MAC address table of the UPOE Switch with auto-learning and auto-aging
- Supports full-duplex and half-duplex auto-negotiation
- LED indicators for monitoring power, link, activity and UPOE status

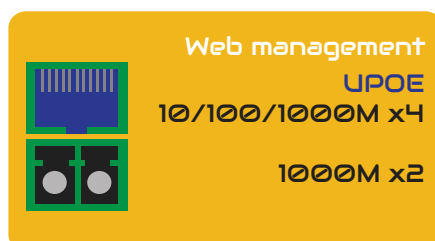
SPECIFICATIONS

Number of RJ45 POE ports (10/100/1000BaseT)	4
Number of 1G SFP ports	2
	Console port(RJ45-RS232) ; Reset switch to restore factory settingsh
Ethernet Port	Port 1-4 support 10/100/1000Base-T,auto-sensing,Full/half duplex MDI/MDI-X self-adaption
SFP Slot Port	Gigabit SFP optical fiber interface, default matching opticalmodules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/ Distance	Multi mode: 850nm /0 ~ 500M, single mode: 1310nm /0 ~ 40KM, 1550nm /0 ~ 120KM.
Network Management Type	L2+
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 ; 15.4W per POE port (IEEE802.3af); 30W per POE port (IEEE802.3at)
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	128Gbps
Forwarding Rate@64byte	8.9Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frame	9.6K
Twisted Pair Transmission	10BASE-T:Cat3,4,5 UTP(≤100 meter);100BASE-TX:Cat5e/later UTP(≤100 meter); 1000BASE-T:Cat5e/later UTP(≤100 meter)
Lightening and protection level	Lightening protection: 6KV 8/20us;Protection level: IP40
POE standard	90W, IEEE802.3af/at/bt. Average power becomes 71W when all four ports are being used at the same time.
POE power	PoE working status ; Delay start of power supply ; PoE output priority configuration Scheduling of PoE operation and time ; Total power limit of PoE power supply ; PoE output power allocation, off& af &at
Operating temperature / humidity	-40 to 80 °C(5 ~ 95% non condensation)
Storage temperature / humidity	-40 to 85 °C(5 ~ 95% non condensation)
Power Supply	No, optional 48V/240W or 48V/480W industrial power supply
Power Consumption	Standby<8W, Full load<240W
LED	Power/ System : SYS (green) , Network: Link (yellow), fiber port: L/A (green), PoE: PoE (green)
Dimensions	145x134x47mm
Weight	0.8kg

<i>Lightning protection / protection level</i>	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;IEC61000-4-9(pulsed magnet field):1000A/m ;
	IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV;EC61000-6-2(Common Industrial Standard)
	IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz);IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV
	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s;CC Part 15/CISPR22(EN55022):Class A ;
	IEC61000-4-10(damped oscillation):30A/m 1MHz ; IEC61000-4-16(common-mode transmission):30V; 300V,1s
<i>Mechanical Properties</i>	IEC60068-2-6 (anti vibration) ; IEC60068-2-27 (anti shock) ; IEC60068-2-32 (free fall)
<i>Certification</i>	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS
<i>Network Management Interface</i>	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.
<i>Layer 3 Features</i>	L2+ network management ,IPV4/IPV6 management ; L3 soft routing forwarding,
	Static route, Default route @ 128 pcs, APR @ 1024 pcs
<i>VLAN</i>	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, Hybrid3
<i>Port Aggregation</i>	LACP, Static aggregation ; Max 3 aggregation groups and 8 ports per group.
<i>Spanning Tree</i>	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
<i>Industrial Ring Network Protocol</i>	G.8032 (ERPS),Recovery time less than 20ms ; 250 Ring at most, Max 250 devices per ring.
<i>Multicast</i>	MLD Snooping v1/v2,Multicast VLAN ; IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
<i>Port Mirroring</i>	Bidirectional data mirroring based on port
<i>QoS</i>	Flow-based Rate Limiting ; Flow-based Packet Filtering ; Queue Scheduling Algorithm (SP, WRR, SP+WRR);
	802.1p/DSCP priority mapping ; Diff-Serv QoS,Priority Mark/Remark ; 8*Output queues of each port
<i>ACL</i>	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.
<i>Security</i>	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
<i>DHCP</i>	DHCP Client,DHCP Snooping,DHCP Server,DHCP Relay
<i>Management</i>	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
	smart network management system platform(LLDP+SNMP)
<i>System</i>	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
LIMPOX6-4PU-2SFP-x	6 Ports 10/100/1000M SMART Industrial UPOE switch with 4x 1G RJ45 UPOE & 2x 1G SFP
x-	F: IEEE802.3af (15.4W per port)
	T: IEEE802.3at (25.5W per port)
PEA-52-65	Power adaptor 220VAC~52VDC: 65W
PEA-52-110	Power adaptor 220VAC~52VDC: 110W