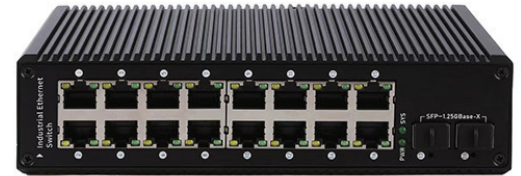


## 18 Ports 10/100/1000M Industrial Switch with 16x 1G RJ45 & 2x 1G SFP

LIOX18-2SFP is a 16 x 10/100/1000M RJ45 and 2x 1G SFP port Industrial switch. It supports IPV4 static routing forwarding, complete security protection mechanism, perfect ACL/QoS strategy and VLAN functions. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and ERPS (<20ms) ring network protocol improves link backup and network reliability. When a one-way network fails, communication can be quickly restored.



### FEATURES

- 16x 10/100/1000M RJ45 + 2x 1G SFP
- Dual optical uplink ports, long-distance transmission, adapt to various ring network/chain network cascade and expansion
- Full Gigabit high-speed transmission, high-bandwidth transmission is stable and guaranteed, supports rate and flow control per port, and achieves 10M/250 Meters long-distance transmission, solving the problem of long-distance communication of network cables
- Industrial -grade bandwidth switching chip, backplane, cache, reducing network congestion
- Support IEEE802.3X full-duplex intelligent flow control, large-stream high-definition transmission without lag;
- Supports automatic MAC address learning and updating, and supports automatic port flipping (Auto MDI/MDI-X) function
- Supports 6KV surge (lightning) protection, power short circuit and overload protection, IP40 protection level, 40°C to +75°C wide temperature design
- Aluminum alloy metal shell, heat dissipation, interference shielding, rust-proof, low power consumption, fanless, DIN35 rail installation

### SPECIFICATIONS

Number of RJ45 ports (10/100/1000BaseT)	16
Number of SFP ports (1000M)	2
Forwarding Mode	Store and forward (full line speed)
Network port characteristics	1-16 ports 10/100/1000M adaptive, full/half duplex MDI/MDI-X adaptive
Twisted pair transmission	10BASE-T: Cat3,4,5 UTP(≤250 meter), 100BASE-TX: Cat5 or later UTP(≤100 meter), 1000BASE-T: Cat5e or later UTP(≤100 meter)
Light source characteristics	Gigabit SFP fiber optic interface, no optical module is provided by default, you need to purchase it separately (optional order mode/multi-mode, single fiber/dual fiber optical mode Block, LC/SC)
Optical Cable	Multimode: 850nm 0-550M, 50μm/125μm&62.5μm/125μm Single mode: 1310nm 0-40KM, 1550nm, 0-120KM, 9.5μm/125μm
Network protocol	IEEE802.3 10BASE-T: IEEE802.3i 10Base-T: IEEE802.3u 100Base-TX , IEEE802.3x Flow Control, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE 802.3ad port trunk with LACP, IEEE 802.1D Spanning Tree protocol, IEEE 802.1w Rapid Spanning Tree protocol, IEEE 802.1ab LLDP, IEEE 802.1s Multiple Spanning Tree protocol, IEEE 802.1p Class of service, IEEE 802.3af DTE Power via MDI IEEE 802.1Q VLAN tagging, IEEE 802.1x Port Authentication Network Control , IEEE 802.3at DTE Power via MDI
CPU	500MHz
DRAM	1Gbits
FLASH	256Mbits
Backplane	52Gbps (non-blocking)
bandwidth packet forwarding	rate @64byte 26.78Mpps
MAC address table	8K
packet forwarding cache	4Mbits
Jumbo Frames	10Kbytes
MTBF	500,000 hours
Indicator Lights	Power indicator: PWR (green); System operation indicator: SYS (green); Network indicator: Link/Act (green); optical port indicator: SFP (green).
One-button restore switch	1, press and hold for 6 seconds to restore to factory settings

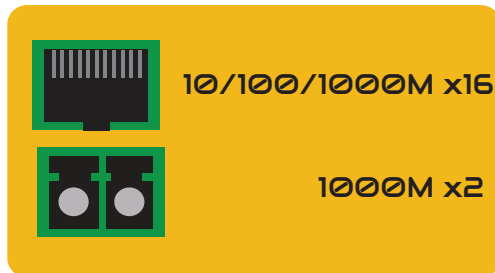
<i>POE and Power Characteristics</i>	
<i>Input voltage</i>	DC12-57V
<i>Power consumption</i>	Standby power consumption: <15W; Full load power consumption: <20W
<i>Supporting power supply</i>	The default power supply is not available and needs to be purchased separately. It is recommended to select DC24V/1A
<i>Physical Specifications</i>	
<i>Cooling method</i>	Fanless natural heat dissipation
<i>Working temperature/humidity</i>	-40 to +75°C / 5- 90% RH non-condensing
<i>Storage temperature/humidity</i>	-40 to +85°C / 5- 95% RH non-condensing
<i>Dimensions (L*W*H)</i>	195*145*48mm
<i>Net weight/gross</i>	>1.5kg / >1.8kg
<i>weightInstallation</i>	Desktop, DIN rail installation
<i>Product certification and warranty</i>	
<i>Lightning protection/protection level</i>	Port lightning protection: 6KV 8/20us; Protection level: IP40
<i>Applicable industrial standards</i>	IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge ;IEC61000-4-3(RS):10V/m(80-1000MHz); IEC61000-4-4 (EFT): Power line: ±4kV; Data line: ±2kV;IEC61000-4-9 (Pulse Magnetic Field): 1000A/m; IEC61000-4-5 (Surge): Power line: CM±4kV/DM±2kV; Data line: ±4kV; FCC Part 15/CISPR22(EN55022):Class A; IEC61000-4-6 (radio frequency conduction): 10V (150kHz-80MHz); IEC61000-6-2 (general industrial standard) IEC61000-4-8 (power frequency magnetic field): 100A/m continuous; 1000A/m, 1s to 3s; IEC61000-4-10 (damped oscillation): 30A/m 1MHz; IEC61000-4-12/18 (shock wave): CM 2.5kV, DM 1kV ; IEC61000-4-16 (common mode conduction): 30V continuous; 300V, 1s;
<i>Mechanical properties</i>	IEC60068-2-6 (Vibration Resistance; IEC60068-2-27 (shock resistance); IEC60068-2-32 (free fall)
<i>Safety certification</i>	CE · FCC · RoHS · CCC
<i>Software management features</i>	
<i>port</i>	Support IEEE802.3x flow control (full-duplex), half-duplex back pressure flow control; Supports forced port mode and speed; Support broadcast storm and port storm suppression; Support port traffic speed limit, the minimum granularity is 16Kbps and the maximum is 1Gbps; Support port real-time traffic management (Flow Interval); jumbo frame size control, up to 16K packets ; Support optical port DDMI digital diagnosis function
<i>IP Routing</i>	Support L2+ network management function; Support ARP protocol, maximum entries 1024 Support; Support IPV4 static routing/default routing, maximum 128 entries
<i>VLAN</i>	port-based VLAN (4K), IEEE802.1q VLAN Support protocol-based VLAN; Support three types of port configuration: Access, Trunk, and Hybrid
<i>Port aggregation</i>	Supports static aggregation and dynamic aggregation (LACP); Supports up to 8 aggregation groups, each aggregation group supports up to 8 ports
<i>Ring network function</i>	Support loop protection function; Support STP/RSTP/MSTP spanning tree protocol; Support ERPS ring network (single ring, multi-ring, intersecting ring and tangent ring configuration), the ring network self-healing time is less than 20ms
<i>Multicast</i>	Support IGMP Snooping v1/v2/v3, support up to 1024 multicast groups
<i>Mirror</i>	Supports bidirectional traffic mirroring of basic ports
<i>QoS</i>	Supports port-based, 802.1P and DSCP/ToS priorities, and each port supports 8 output queues; Support four priority scheduling modes: Equ, SP, WRR, SP+WRR; Support priority mark/remark; Support flow-based rate limiting, packet filtering, and redirection
<i>ACL</i>	Support L2-L4 packet filtering function, can match the first 80 bytes of the message, and provide; source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc.;; Define ACLs; Support issuing ACL based on port and VLAN

# TELECOM/DATACOM SYSTEM

<i>Safety Features</i>	Support user hierarchical management and password protection; Support anti-DoS attack;
	Support port-based IEEE802.1X authentication; Support AAA&RADIUS and TACACS+ authentication;
	Support MAC address learning number limit; Support MAC address black hole and address binding;
	Support SSH 2.0, providing a secure encrypted channel for user login;Support port isolation;
	Support ARP message rate limit function; Support IP source address protection;
	Support ARP intrusion detection function;Support port broadcast message suppression;
	Support host data backup/restore mechanism; IP+MAC+VLAN+port four-way binding function
<i>DHCP</i>	Support DHCP Server; Support DHCP Client; Support DHCP Snooping v1/v2/v3
<i>Management and maintenance</i>	Support HTTP, TFTP file upload/download management; Supports RMON groups 1, 2, 3 and 9;
	Support one-click factory reset; Support NTP clock and local clock;Support Ping detection;
	Support local log and system log (SYSLOG); Support cable status check;
	Support real-time CPU utilization status viewing; Support link layer discovery protocol LLDP;
	Support NMS platform cluster unified management (LLDP+SNMP)
<i>System Requirements</i>	Category 5 and above Ethernet cables;
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher;
	TCP/IP network adapter and operating system (such as Microsoft Windows, Linux or Mac OS)

## FUNCTIONAL DIAGRAM

## ORDERING INFORMATION



PN	DESCRIPTION
L10X18-2SFP	18 Ports 10/100/1000M Industrial Switch with 16x 1G RJ45 & 2x 1G SFP
PEA-24-30	Power adaptor 220VAC~24VDC 30W