

## LinkPower™ LPS5018 / LPS5026 Managed 18/26 Port Gb Passive PoE Switch



Model: LPS5018



Model: LPS5026

LinkPower LPS5018 / LPS5026 Managed Gigabit Passive PoE Switch Series is a full gigabit managed passive PoE fiber switch. It has 16 and 24 10/100/1000M RJ45 ports and 2 1000M SFP slot ports. Port 1-16 can support 24V/48V non-standard PoE. Port 1-4 single port PoE power reaches 36W/72W, port 5-16 PoE power reaches 18W/36W, and the maximum PoE output power is 250W for LPS5018 and 400W for LPS5026. A non-standard, i.e., passive, PoE power supply device must be connected to the corresponding non-standard, i.e., passive, electrical equipment (such as a wireless bridge, building visual access control intercom, etc.) or the corresponding non-standard separation line to convert and achieve the PoE power supply. LPS5018 / LPS5026 can supply power to various adaptable terminals through network cables to meet the demand for a high-density PoE network environment.

### FEATURES

#### Full gigabit access, gigabit SFP port uplink

- All series supports the "gigabit Ethernet port and gigabit SFP fiber port " combination, enabling users to build networking to meet the needs of various scenarios flexibly.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

#### Intelligent PoE power supply

- Power redundancy: Built-in power supply & external DC power input
- 16\*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- 1-4 port, the max power supply of a single port is 36W/72W, and the max power supply of a single port is 18W/36W.  
**Note:** The voltage of each port is adjustable based on a non-standard passive PoE. It powers the load directly.
- It can quickly realize the power supply function of POE cable by switching directly to non-standard electrical equipment or switch and non-standard separation lines.

#### Robust security capability

- With the support of IEEE 802.1Q VLAN and protocol VLAN, users can flexibly divide VLAN according to needs. Ring network STP/RSTP spanning tree protocol eliminates layer two loops and realizes link backup.
- Support QoS, three priority modes based on port, 802.1P-based and DSCP-based, and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Support ACL in filtering data packets by configuring matching rules, processing operations, and time permissions to provide flexible security access control strategies.
- Support IGMP V1/V2 multicast protocol and IGMP Snooping to meet the needs of multi-terminal high-definition video surveillance and video conferencing access.
- Static aggregation and dynamic aggregation effectively increase link bandwidth, achieve load balancing and link backup, and improve link reliability.

### Easy operation and maintenance management

- CPU monitoring, memory monitoring, Ping detection, cable detection.  
SSH V1/V2 and other encryption methods make management more secure.
- System logs and port traffic statistics facilitate network optimization and transformation.
- LLDP facilitates the network management system by querying and determining the communication status of the link.
- Web network management, CLI (Console, Telnet), SNMP (V1/V2/V3), and other diversified management and maintenance methods.

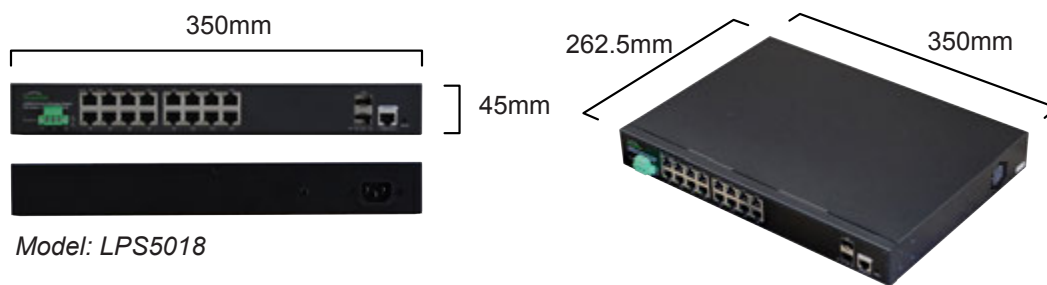
## TECHNICAL SPECIFICATION

Model	LPS5018	LPS5026
<b>Interface Characteristics</b>		
Fixed Port	16*10/100/1000Base-T PoE ports (Data /Power) 2*1000Base-X uplink SFP ports (Data)	24*10/100/1000Base-T PoE ports (Data /Power) 2*1000Base-X uplink SFP ports (Data)
Ethernet Port	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 meter) 100BASE-TX: Cat5 or later UTP (≤100 meter) 1000BASE-T: Cat5e or later UTP (≤100 meter)	
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Cable	Multi mode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.	
<b>Chip Parameter</b>		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX/FX, IEEE802.3ab 1000Base-TX IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	256 Gbps	256 Gbps
Forwarding Rate@64byte	29.76Mpps	41.7Mpps
MAC	8K	8K
Buffer Memory	4.1M	4.1M
Jumbo Frame	10K	10K
LED Indicator	Power: PWR (Orange), network: link/Act (Green), PoE: PoE (Blue)	

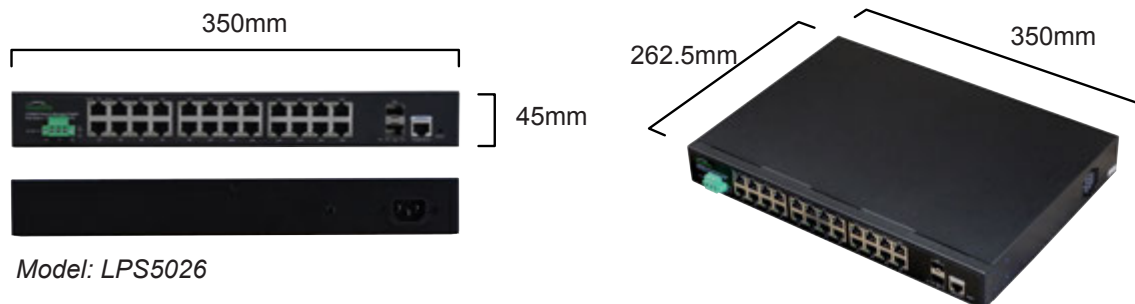
Reset Switch	Yes, One-button factory reset	
<b>PoE &amp; Power Supply</b>		
PoE Port	Port 1-16 support 24V/48V Non-standard, Passive PoE	Port 1-24 support 24V/48V Non-standard, Passive PoE
Power Supply Pin	* 1-4 Port: OFF/24V (0.75A)/ 24VH (1.5A)/ 48V (0.75A)/ 48VH (1.5A) 0.75A: Pins 4/5 +, 7/8 - * 1.5A: Pins 1/2/4/5 +, 3/6/7/8 - * 5-16 Port: OFF/24V (0.75A) / 48V (0.75A)	* 1-4 Port: OFF/24V (0.75A)/ 24VH (1.5A)/ 48V (0.75A)/ 48VH (1.5A) * 0.75A: Pins 4/5 +, 7/8 - * 1.5A: Pins 1/2/4/5 +, 3/6/7/8 - * 5-24 Port: OFF/24V (0.75A) / 48V (0.75A)
Max Power Per Port	36W/72W, 18W/36W	
Total PWR / Input Voltage (Built-In Power Supply)	250W (AC100-240V)	400W (AC100-240V)
Power Consumption	Standby<15W; Full load<250W	Standby<18W; Full load<400W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 4.1A	Built-in power supply AC 100~240V 50-60Hz 5.0A
DC Power Input	DC 44~52V	DC 44~52V
<b>Physical Parameter</b>		
Operation TEMP / Humidity	-20~+50°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+75°C;5%~95% RH Non condensing	
Dimension (L*W*H)	350mm*262.5mm*44.5mm	
Net /Gross Weight	<3.0kg / <3.8kg	
Installation	Desktop, 19-inch 1U cabinet	
<b>Certification &amp; Warranty</b>		
Lightning protection/protection level	Lightning protection: 4KV 8/20us; Protection level: IP30	
Warranty	3-Years, lifelong maintenance.	
<b>Network Management Features</b>		
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.	

VLAN	4K VLAN based on port, IEEE802.1q VLAN based on the protocol, VLAN based on MAC QinQ configuration, Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation, Max 5 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
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

## DIMENSIONS



Front Panel



Front Panel

## ORDERING INFORMATION

Model	Description	Configure Power Supply
LPS5018	Managed PoE fiber switch with 16*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber slot ports, port 1-16 can support PoE, supporting/19-inch rack installation.	250W
LPS5026	Managed PoE fiber switch with 24*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber slot ports. Ports 1-24 can support PoE, supporting/19-inch rack installation.	400W

**Note:** The SFP optical module is not included by default and needs to be purchased separately

## PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	18/26-port full gigabit PoE fiber switch	1	SET
	AC power cable	1	PC
	Mounting Kits	1	SET
	User Guide	1	PC
	Warranty Card	1	PC



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