Elite Series
LPS10868ATMP-T1S

8-Port Outdoor 2.5 G Managed PoE Switch w/ SFP+ Uplink Ports, 802.3bt

| IEEE 802.3at PoE+, 30W | 2.5 Gigabit PoE, 10 Gigabit SFP+ | Overload Protection | IP68 |

The LinkPower™ LPS10868ATMP-T1S is a 2.5G L2+ managed outdoor PoE switch with 120Gbps forwarding bandwidth, designed for carrier Ethernet and edge applications. It features 8× 2.5G RJ45 ports and 4× 10G SFP+ uplink ports, with ports 1—8 supporting IEEE 802.3af/at/bt PoE up to 90W per port for devices such as IP cameras, wireless APs, and industrial equipment.

The enclosure is rated IP66 with a hinged cover and IP68 when fully secured with top screws, ensuring durability in harsh environments.

Advanced Layer 2+ features include IPv4/IPv6 management, static routing, ACL/QoS, and a 4K VLAN table with flexible classification. It also supports VLAN translation and fast redundancy protocols (STP/RSTP/MSTP <50ms, ERPS <20ms) for reliable network recovery.

Management is available via Web, CLI, SNMP, and Telnet for full control of PoE, traffic, VLANs, and security.

Built for outdoor deployments, the LPS10868ATMP-T1S operates from -30°C to +70°C and includes 6KV surge protection for reliable PoE performance.

Key Product Features

- 8x 2.5G RJ45 PoE++ ports and 4x 10G SFP+ uplink ports for high-speed access and aggregation
- 120Gbps forwarding / 240Gbps switching capacity with non-blocking wire-speed performance
- Supports IEEE 802.3af/at/bt PoE with intelligent power management, port control, scheduling, and priority allocation
- Up to 90W per port (PoE++) with automatic device detection and protection for non-PoE devices
- Advanced Layer 2+ features including VLAN (802.1Q, QinQ), Link Aggregation, STP/RSTP/MSTP, and ERPS for network redundancy
- QoS support based on 802.1p, DSCP, and port priority with scheduling modes (SP, WRR, SP+WRR)
- Multicast support including IGMP Snooping v1/v2/v3 for video and data distribution
- Security features including ACL, 802.1X authentication, IP/MAC/Port/VLAN binding, port isolation, and storm control
- Compliant with standards and certifications: CCC, CE, FCC, RoHS

• High reliability design with fanless aluminum housing, low power consumption, and LED status indicators -V(PWR, SYS, Link, PoE)
• IP68-rated enclosure with operating temperature from -30°C to +70°C
• Comprehensive management options including Web, CLI (Console/Telnet), SNMP v1/v2c/v3, and RMON
• Secure management protocols including HTTPS, SSL, SSH, and LLDP for network visibility

Interface Characteristics	
Fixed Port	Power off alarm switch port (FAULT)
	1*RS232 console port (115200, N, 8,1)
	4*1/10G uplink SFP+ ports (Data)
	8*10/100/1000/2500Base-T PoE ports (Data/Power)
	2 set of V+, V- redundant DC power ports (6 Pin Phoenix terminal)
Ethernet Port	Port 1-8 support 10/100/1000/2500Base-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)
	2500BASE-T: Cat6A or later UTP(≤100 meters)
Optical Fiber Port	1/10G SFP+ optical fiber port, default no include optical modules (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
Chip Parameter	
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T
	IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T
	IEEE802.3z 1000Base-X, IEEE802.3be 2.5GBase-T
	IEEE802.3ae 10GBase-SR/LR, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	240Gbps

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Forwarding Rate@64byte	120Gbps
CPU	Dual Core 1GHz
DRAM	2G
FLASH	256Mbit
MAC	32K
Buffer Memory	16Mbit
Jumbo Frame	12Kbytes
LED Indicator	Power/System: SYS (Green), Network:Link (Yellow), PoE: PoE (Green), Fiber port: L/A (Green) Speed: 100/1000(Green)
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings
PoE & Power Supply	
PoE Port	Port 1 to 8
PoE Management	Port PoE output on/off PoE work and time scheduling Port PoE real-time load power display
Power Supply Pin	1/2, 4/5 (+) 3/6, 7/8 (-)
Max Power Per Port	30W, IEEE802.3af/at, 90W, IEEE802.3bt
Power Consumption	Standby<13W, Full load af<140W, at<240W, bt<380W
Working Voltage	DC48-57V, 6 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply
Physical Parameter	
Operation TEMP	-30~+70°C
Storage TEMP / Humidity	-40~+85°C, 5%~95% RH Non condensing

Enclosure Dimensions	LxWxH: (12 x 10 x 4 inch)
Net /Gross Weight	<12 LB / <13 LB
Installation	Pole / Wall Mount

Certification & Warranty

Lightning Protection	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
	IEC61000-4-10(damped oscillation):30A/m 1MHz
	IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV
	IEC61000-4-16(common-mode transmission):30V; 300V,1s
	FCC Part 15/CISPR22(EN55022):Class B
	IEC61000-6-2(Common Industrial Standard)
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
Warranty	5 years, lifelong maintenance.

Network Management Features

Interface	IEEE802.3x flow control (full duplex)
	Port exception protection mechanism
	Port real-time flow management (Flow Interval)
	Broadcast storm suppression based on port rate

	Optical port SFP module DDMI real-time digital diagnosis
	Limit the rate of incoming and outgoing packet traffic, with a minimum granularity of 16Kbps and a maximum of 1Gbps
	Port EEE Green Ethernet Energy-Saving configuration and status view
	Jumbo frame configuration, the largest 12000byte
Layer 3 Features	L2+ network management function, dual-stack IPv4/IPv6 management
	Static routing, RIPv1/v2, RIPng, OSPFv1/v2, OSPFv3
	The maximum number of entries in the ARP protocol is 1024
VLAN	VLAN based on MAC, VLAN based on the protocol
	Port configuration of Access, Trunk, Hybrid. GVRP VLAN protocol
	(4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration
Port Aggregation	LACP dynamic aggregation, Static aggregation
	Max 6 aggregation groups and maximum 8 ports per group.
Spanning Tree	STP BPDU Guard, BPDU filtering and BPDU forwarding
	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
ERPS Ring Network	Support ERPS ring network, ring network self-healing time is less than 20ms, ITU-T G.8032
Multicast	MLD Snooping, IGMP Snooping, Multicast VLAN
	User quick log out, MVR (Multicast LAN registration)
	IGMP Snooping v1/v2/v3 and 1024 multicast groups at most
Mirroring	Bidirectional traffic mirroring for basic ports
	one-to-multiple mirroring, supports up to 4 port sessions
QoS	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
	Flow-based Rate Limiting, Stream based redirection
	Flow-based Packet Filtering, 8*Output queues of each port
	802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark
ACL	ACL distribution based on port and VLAN
	L2-L4 packet filtering function, matching the first 80 bytes message, and provides ACL definitions based on source MAC address, destination

	MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc.
Security	Port based IEEE802.1X authentication
	SSL guarantees data transmission security
	Quad binding function of IP+MAC+VLAN+ports
	MAC address learning limit, MAC address black hole
	Anti DoS attack, Port broadcast message suppression
	IP Source Guard function, AAA&RADIUS certification
	Hierarchical user management and password protection
	SSH 2.0 provides a secure encrypted channel for user login
	Host data backup mechanism, ARP intrusion detection function
	Port isolation, IP Source Guard, ARP message speed limit function
DHCP	DHCP Client, DHCP Snooping, DHCP Server
Network Management	Web network management (https)
	Link Layer Discovery Protocol(LLDP)
	Viewing CPU Instant Utilization Status
	NTP clock, One click restore, SNMP V1/V2C/V3
	Cable status check, Ping detection, System work log
	NMS platform cluster management (LLDP+SNMP)
	Console/AUX Modem/Telnet/CLI command line configuration
	FTP, TFTP, Xmodem, SFTP file upload and download management
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

System Configuration

LinkPower™ LPS10868ATMP-T1S

Connect Up to 8 PoE Devices
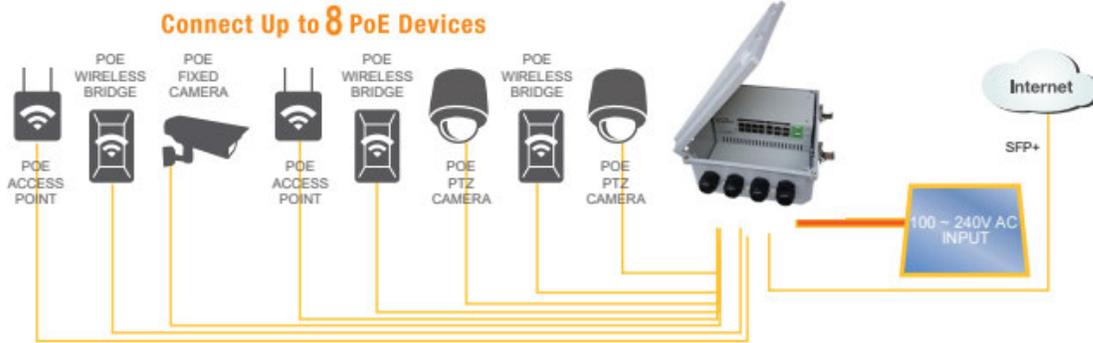
Accessories

Standard Accessories

PFCK0001
Power & Fiber Connector Kit

ECK0001
Ethernet Connector Kit

WMK0001
Wall Mounting Kit

APCK0001
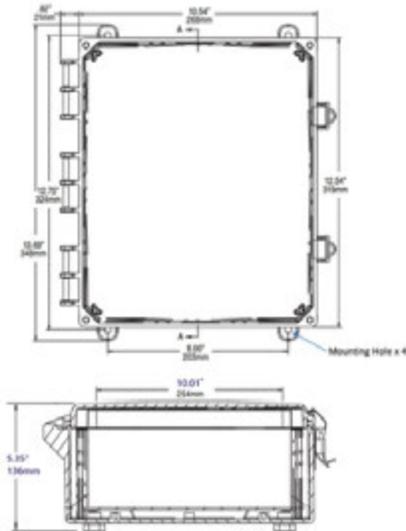AC Power Cable Kit

Optional Accessories

MMK0001-L
Mast Mounting Kit
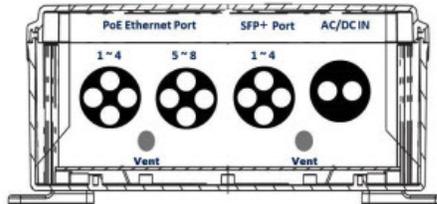(Pole Diameter from 2" to 4.5")

Pole Mount View

Enclosure Drawings & Interfaces

Interfaces
1. Weatherproof PoE Connector (1~4)
2. Weatherproof SFP Cable Connector (1~2)
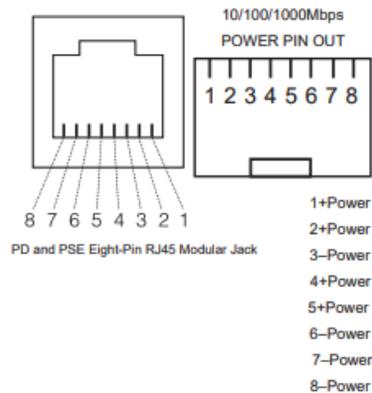3. Weatherproof AC / DC Power Cable Connector
4. Vent Plug

To Use Conduit Connectors, the diameter of the holes is 1.0 inch.

Internal Hotel Space: 10"x5"x4" (LxWxH) for Wiring Storage

Electrical Pin Out Diagram

10/100/1000Mbps
POWER PIN OUT

1 2 3 4 5 6 7 8

8 7 6 5 4 3 2 1
PD and PSE Eight-Pin RJ45 Modular Jack

1+Power
2+Power
3–Power
4+Power
5+Power
6–Power
7–Power
8–Power

Package Contents

1. LinkPower LPS10868ATMP-T1S PoE Switch
2. User's Manual
3. Quick Install Guide
4. Warranty Information
5. APCK0001 AC Power Cable Kit
6. PFCK0001-3 Power & Fiber Connector Kit
7. ECK0001-4 Ethernet Connector Kit
8. WMK0001 Wall Mount Kit with 4 Flanges
9. MMK0001-L Pole Mount Kit (Optional)