

# Expert Series LPS1800-T1E

## 8-Port Outdoor Fast Ethernet Managed PoE Switch



The LinkPower™ LPS1800-T1E Outdoor Fast Ethernet Managed PoE Switch is an 8-Port 10/100Mbps IEEE 802.3af and IEEE 802.3at PoE (Power over Ethernet) network switch with 2 Combo Gigabit Fiber/Ethernet ports, featuring advanced Layer 2 management capabilities. It is an industry-first outdoor weatherproof industrial 10/100Mbps Ethernet switch that delivers data and power over a single network cable, housed in an IP68-compliant enclosure.

<b>LPS1800AFM-T1E</b>	<b>30W per Port / 150W Total</b>	Outdoor Managed 10/100Mbps 8-Port 802.3af/at+ PoE Switch with 2 Combo Gigabit SFP/RJ45 Uplink Ports, Up to 30W per PoE Port, Average PoE Load of 15.4W per Port Not to Exceed 150W Total Across 8 Ports
<b>LPS1800ATM-T1E</b>	<b>30W per Port / 240W Total</b>	Outdoor Managed 10/100Mbps 8-Port 802.3af/at PoE Switch with 2 Combo Gigabit SFP/RJ45 Uplink Ports, Up to 30W per PoE Port

The LinkPower™ LPS1800-T1E Outdoor 10/100Mbps PoE Series is built for industrial and commercial applications including video surveillance, wireless mesh, and carrier WiFi, supporting devices such as IP cameras and wireless access points.

### Key Product Features

- 8x 10/100Mbps RJ45 PoE ports supporting IEEE 802.3af/at (up to 30W per port depending on model)
- 2x Gigabit SFP fiber uplink ports for high-bandwidth, long-distance transmission
- Supports IEEE 802.3af/at PoE to power compatible devices (IP cameras, APs, etc.)
- Up to 30W per port (802.3at) / 15.4W (802.3af)
- Layer 2 management features including VLAN (Port-based, IEEE 802.1Q, GVRP), QoS, and Trunking
- SNMP v1/v2 and RMON support for network monitoring and management
- Security features including TACACS+, IEEE 802.1x, HTTPS, SSH, and MAC address port locking
- Compliant with IEEE standards: 802.3, 802.3u, 802.3z, 802.3ab, 802.3x, 802.1D, 802.1Q, 802.1p, 802.1x, 802.1W, SNMP, IGMP
- 8.8Gbps non-blocking bandwidth, 4K MAC address table
- Auto MDI/MDIX on all ports
- IEEE 802.3x flow control and back pressure support
- 6KV Ethernet surge protection for harsh outdoor environments
- Operating temperature: -30°C to +70°C (full load)
- Event and fault management with email alerts and relay output

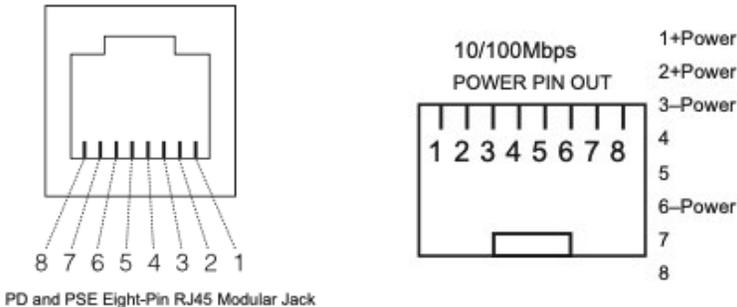
# Technical Specifications

<b>Product Model</b>	LPS1800AFM-T1E / LPS1800ATM-T1E
<b>Product Name</b>	Outdoor Fast Ethernet Managed 8-Port 802.3af/at PoE Switch with 2 Combo Gigabit SFP/RJ45 Uplink Ports
<b>Connector</b>	RJ45 Port: 8x10/100Base-T(X) self-detect, 2 Uplink10/100/1000Base-T(X) & SFP combo port Fiber Port: 2x100/1000Base SFP ports
<b>Switching Performance</b>	Bandwidth: 8.8G (Non-blocking), Priority Queue: 4 Packet Buffer Memory: 1Mbit MAC Address Table Size: 4K Switch Processing Scheme: Store-and-Forward
<b>Network Medium</b>	10BASE-T: Cat3/4/5 UTP (<100m) 100BASE-TX: Cat5 or more UTP (<100m) Single mode (9/125um) fiber transmission, the transmission distance can be up to 25km (default dual fiber, can be customized single fiber)
<b>Performance Specifications</b>	MTBF: 300,000 hours Database: Telcordia (Bellcore), GB
<b>Protocols and Standards</b>	IEEE 802.3: CSMA/CD IEEE 802.3i: 10Base-T IEEE 802.3u: 100Base-T IEEE 802.3ab: 1000Base-T IEEE 802.3x: Flow Control IEEE 802.1af: DTE Power via MDI IEEE 802.3af: Power-over-Ethernet standard IEEE 802.3at: Power-over-Ethernet standard IEEE 802.1Q: VLAN and GVRP protocols
<b>LEDs Status</b>	PWR, FAULT, 10/100, MSTR/HEAD, CPLR/TAIL, PoE
<b>PoE &amp; Power Supply</b>	Input voltage: 120V ~ 240V AC Output voltage: 48V DC LPS1800AFM-T1E delivers up to 30W and an average of 15.4W per PoE port and is limited to 150W for a total of 8 PoE ports LPS1800ATM-T1E delivers 30W maximum per PoE port and is limited to 240W for a total of 8 PoE ports Support OCP (Over-Current Protection) and electronic protection Connection: 3-pin pluggable connecting terminal Power Pin Assignment: 1/2+, 3/6-
<b>Dimensions/ Weight</b>	Enclosure: IP68 protection grade, shell Dimension (LxWxH): 12x10x4 inch, 304.8 x 250.4 x 101.6mm Weight: 9LB, 4KG (Approximate) Installation Method: Wall mount (Standard Accessory) / Mast mount (Optional Accessory)
<b>Working Environment</b>	Operating Temperature: -30°C ~ +70°C
<b>Industrial Standard</b>	EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A EMS: EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 3, EN 61000-4-5 (Surge) Level 3, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Traffic Control: NEMATS-2 Mechanical Project: IEC60068-2-6, IEC60068-2-27, IEC60068-2-32 Industrial: IEC 61000-6-2
<b>Safety</b>	CE Mark, Commercial CE/LVD EN60950, RoHS, UL60591-1, UL 94 V-2, UL F1
<b>Warranty</b>	3 year warranty

# Software Specifications

LPS1800AFM-T1E & LPS1800ATM-T1E:	
<b>Key Software Functions</b>	<ol style="list-style-type: none"><li>1. Individual PoE port control</li><li>2. PoE power priority settings</li><li>3. PoE over-temperature protection</li><li>4. Port-based VLAN support</li><li>5. IEEE 802.1Q VLAN support</li><li>6. Port mirroring</li><li>7. QoS rate limiting for ingress and egress traffic</li><li>8. Port queue scheduling</li><li>9. STP/RSTP and ring protection support</li><li>10. MAC address aging, filtering, and static MAC entries</li><li>11. IGMP Snooping support</li><li>12. IGMP v1/v2 support</li><li>13. Password protection</li><li>14. IEEE 802.1X authentication</li><li>15. IEEE 802.3x flow control (full duplex)</li><li>16. Broadcast storm control by port speed</li><li>17. Broadcast storm control by packets per second (pps)</li><li>18. SNMP v1/v2 management</li><li>19. Web-based management</li></ol>

# Electrical Pin Out Diagram



# System Configuration

LinkPower™ LPS1800-T1E



# Accessories

## Standard Accessories

PFCK0001-3  
Power & Fiber Connector Kit



ECK0001-4  
Ethernet Connector Kit



WMK0001  
Wall Mounting Kit



APCK0001  
AC Power Cable Kit



## Optional Accessories

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

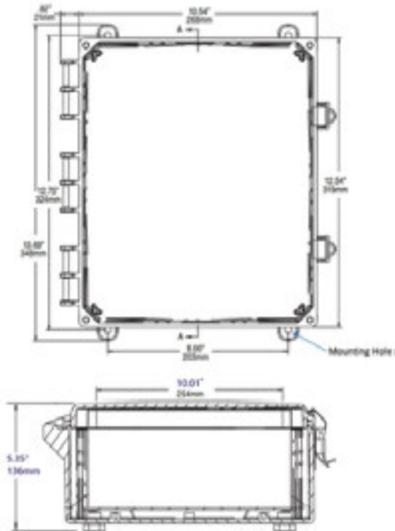


Pole Mount View



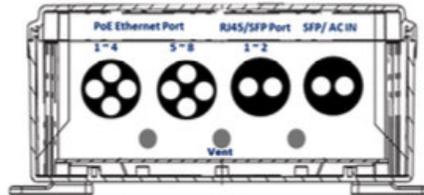
## Enclosure Drawings & Interfaces

---



### Interfaces

1. Weatherproof Power & Fiber Optics Cable Connector
2. Weatherproof PoE Cable Connector
3. 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

## Package Contents

---

1. LinkPower LPS1800-T1E 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)