



Product Model	LPS3400AFM-T1	LPS3400ATM-T1	LPS3802AFM-T1	LPS3802ATM-T1	LPS3800AFM-T1	LPS3800ATM-T1
<b>Product Name</b>	Outdoor Gigabit Unmanaged 4-Port 802.3af/at PoE Switch with 2 Gigabit SFP Fiber Uplink Ports		Outdoor Gigabit Unmanaged 8-Port 802.3af/at PoE Switch with 2 Gigabit SFP Fiber Uplink Ports		Outdoor Gigabit Unmanaged 8-Port 802.3af/at PoE Switch with 2 Gigabit RJ45 and 4 SFP Fiber Uplink Ports	
<b>Connector</b>	RJ45 Port: 4x10/100/1000BaseT(X) self-detect		RJ45 Port: 8x10/100/1000BaseT(X) self-detect ports		RJ45 Port: 8x10/100/1000BaseT(X) self-detect ports	
	Fiber Port: 2x100/1000Base SFP port		Fiber Port: 2x100/1000Base SFP ports		RJ45 Port: 2x10/100/1000BaseT (Tx) self-detect ports Fiber Port: 2x100/1000Base (#11 & 12) & 2 2.5Gbps (#13 & 14) SFP ports	
<b>Switching Performance</b>	Priority Queue: 4					
	MAC Address Table Size: 8 K					
	Packet Buffer Memory: 1Mbit					
<b>Network Medium</b>	10BASE-T: Cat3/ 4/ 5 UTP (≤100m)					
	100BASE-TX: Cat5 or more UTP (≤100m)					
	1000BASE-TX: Cat5 or more UTP (≤150m)					
	2.5Gbps Uplink Speed on LPS3800AFM-T1 & LPS3800ATM-T1, SFP Port 13 & 14 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: 190,000 hours (about 21 years)					
	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					
<b>LEDs Status</b>	PWR, 10/100/1000, PoE , SFP Network					
<b>Power Supply (AC to DC Internal Power Supply) PoE Port Output</b>	AC Input voltage: 120V ~ 240V AC					
	DC Input voltage: 48V					
	Output voltage: 48V DC					
	IEEE802.3af standard, each port power is 15.4W, total power is 62W for 4 ports					
	IEEE802.3at standard, each port power is 30W, total power is 120W for 4 ports					
	IEEE802.3af standard, each port power is 15.4W, total power is 150W for 8 ports					
	IEEE802.3at standard, each port power is 30W, total power is 240W for 8 ports					
	Support OCP ( Over-Current Protection ) and electronic protection Connection: 3-pin AC pluggable connecting terminal , 4-pin DC pluggable connecting terminal					
<b>Dimensions/Weight</b>	Enclosure: IP68 protection grade, shell Dimension (LxWxH): (12 x 10 x 4 inch, 304.8 x 250.4 x 101.6 mm)					
	<b>Weight: 9LB, 4KG</b>					
	<b>Installation Method:</b> Wall Mount / Mast Mount					
<b>Working Environment</b>	Operating Temperature: -30℃ ~ +70℃					
<b>Industrial Standard</b>	<b>EMI:</b> FCC Part 15 Subpart B Class A, EN 55022 Class A					
	<b>EMS:</b> 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					
	<b>Traffic Control:</b> NEMATS-2					
	<b>Rail Traffic:</b> EN50155,EN50121-4 <b>Mechanical Project:</b> IEC60068-2-26, IEC60068-2-27, IEC60068-2-32 <b>Industrial:</b> IEC 61000-6-2					
<b>Safety</b>	CE Mark ,commercial CE/LVD EN60950, RoHS, UL60591-1					
<b>Warranty</b>	3 year warranty					

**PACKAGE CONTENTS**

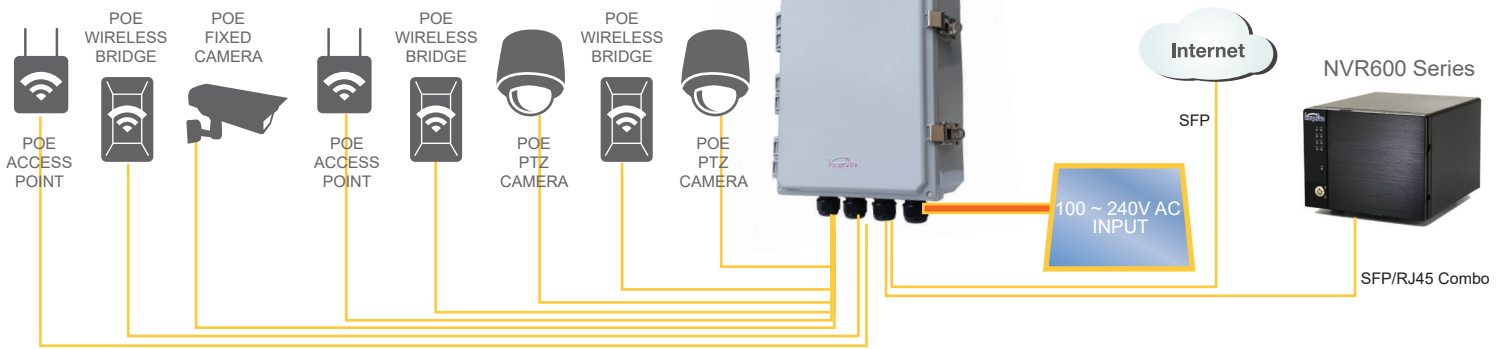
1. LinkPower LPS3000-T1 Gigabit PoE Switch:
  - LPS3400AFM-T1 or LPS3400ATM-T1
  - or LPS3802AFM-T1 or LPS3802ATM-T1
  - or LPS3800AFM-T1 or LPS3800ATM-T1
2. User's Manual
3. Quick Install Guide
4. Warranty Information
5. APCK0001 AC Power Cable Kit
6. PFCK0001-3 Power & Fiber Connector Kit
7. ECK0001-4 Ethernet Connector Kit
8. WMK0001 Wall Mount Kit with 4 Flanges (Standard)
9. MMK0001-L Pole Mount Kit (Optional)

<b>Layer 2 Switching</b>	
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w
G.8032 ERPS	<50ms ring protection for industrial high reliable application
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 7 groups ; Up to 14 ports per group
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ; Port-based VLAN; 802.1Q tag-based VLAN
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is not supported)
<b>Security</b>	
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in and out the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses
DHCP Snooping	prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
ARP Inspection	Prevent ARP spoofing attacks and ARP
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
ACLs	Support for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag
<b>Quality of Service</b>	
Hardware	Support 8 hardware queues
Scheduling	8 COS (Class of Service) queues per port support strict priority and weighted round-robin (WRR)
Classification	Port based; 802.1p (PCP) VLAN priority based;
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based
<b>Management (Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog)</b>	
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, maintenance, and monitoring
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading
Firmware upgrade	Web browser upgrade (HTTP/ HTTPS) and TFTP; Upgrade through console port as well
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to <b>N-1 (N is Switch's Ports)</b> ports can be mirrored to single destination port. A single session is supported.
Other management	Single IP management; HTTP/HTTPS; SSH; RADIUS; DHCP Client; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)

**SYSTEM CONFIGURATION**

**LinkPower™ LPS3800-T1  
Managed Gigabit PoE Switch**

Connect Up to 8 PoE Devices



**STANDARD ACCESSORIES**

**ECK0001**  
Ethernet Connector Kit



**WMK0001**  
Wall Mounting Kit



**APCK0001**  
AC Power Cord Kit



**OPTIONAL ACCESSORIES**

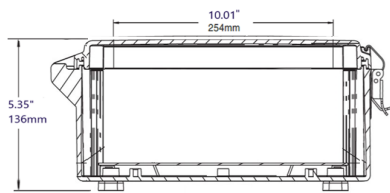
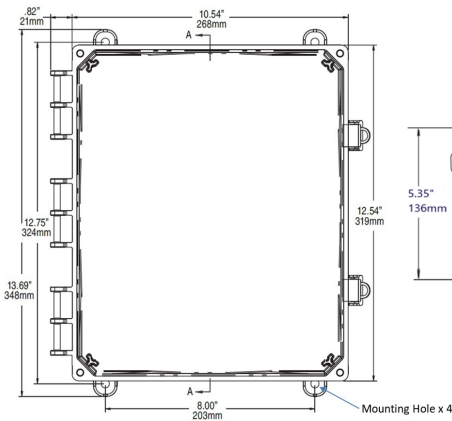
**MMK0001-L Mast Mounting Kit**  
(For Pole Diameter from 2" to 4.5")



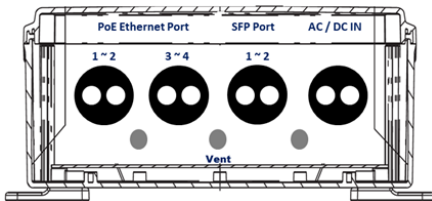
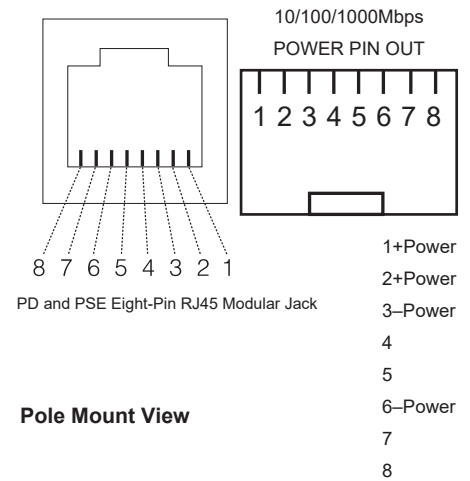
**WPCK0001-3-4 DC Power Cord Kit**



**ENCLOSURE DRAWINGS & INTERFACES**

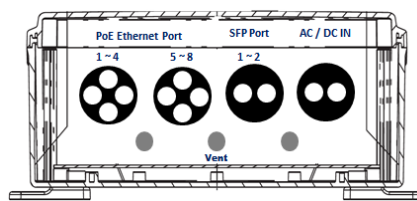


**ELECTRICAL PIN OUT DIAGRAM**



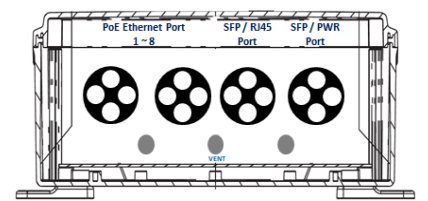
**LPS3400 Series Interfaces**

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



**LPS3802-T1 Interfaces**

1. Weatherproof AC/ DC Power & Fiber Optics Cable Connector
2. Weatherproof PoE / SFP Cable Connector
3. Vent Plug



**LPS3800-T1 Interfaces**

1. Weatherproof AC/ DC Power & Fiber Optics Cable Connector
2. Weatherproof PoE /RJ45 / SFP Cable Connector
3. Vent Plug



THE LEADING  
OUTDOOR NETWORK  
APPLIANCE COMPANY

Product Information Online: <http://www.inscapedata.com/lps3000-t1-mgt.htm>

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Total Turnkey Solutions for Outdoor PoE, Wired/Wireless, and IP Video Applications