LinkPower™ LPS840-T1

Outdoor Gigabit PoE Swtich Series

IEEE 802.3at PoE Plus 30W

Gigabit & Fiber Ports

Ethernet Surge Protection

IP68 All Weather

APPLICATIONS

• IP Video Surveillances
• Campus Networks
• Fixed Wireless Networks
• Border Security Surveillance
• Municipal Networks
• Hospitality Networks
• Hotel Resort Networks
• Hotspot Integrations
• VOIP Services
• Traffic Monitoring

The LinkPower™ LPS840-T1 Outdoor PoE Switch Series offers from 6-Port Gigabit Unmanaged IEEE802.3af and IEEE802.3at PoE (Power over Ethernet) Network Switch with 2 RJ45 Gigabit Uplink Ports and is the industry first outdoor weatherproof industrial gigabit Ethernet switch that delivers data and power over one single network cable protected with an IP67 compliant weatherproof enclosure. The LPS840-T1 Gigabit PoE Series has the following four sub-models:

Product Line	Product Model	PoE Output	Model Description
LPS840-T1 Outdoor Gigabit PoE Switch	**LPS840AF-T1**	**30W per Port / 62W Total**	Outdoor 10/100/1000Mbps 6-Port 802.3af/at PoE Switch with 2 RJ45 Gigabit Uplink, Up to 30W and an Average of 15.4W per PoE Port, Not to Exceed 62W for a Total of 4 PoE Port
	LPS840AT-T1	**30W per Port / 120W Total**	Outdoor 10/100/1000Mbps 6-Port 802.3af/at PoE Switch with 2 RJ45 Gigabit Uplink Ports, Up to 30W per PoE Port

The LPS840-T1 Gigabit PoE Series is designed for security and commercial applications, e.g., video surveillance, remote security, wireless mesh, outdoor wifi installations, and etc. The terminal equipment, i.e., powered devices, such as weather-proof IP camera, high performance wireless AP and industrial IP telephony. The systems is also offer with powerful anti-electromagnetic interference feature. Additionally, the LPS840-T1 Gigabit PoE Series is designed for harsh outdoor environments with features such as a wide working temperature range from -30℃ to +70℃ and 3KV Ethernet port surge protection that can ensure the reliability of the uninterrupted PoE operations. The PoE technology conveniently eliminates the need to install networked devices, such as Inscape Data's IP cameras and SB300/BR300, and SB3000/BR3000 wireless products, thereby reducing equipment and installation costs. The LPS800-T1 Gigabit PoE Series offers the following key features:
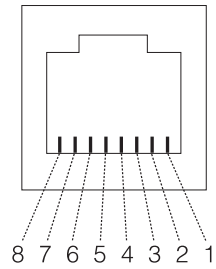
KEY PRODUCT FEATURES

• IP66 if top cover closed by latch or IP68 if top cover closed by screws

• MTBF:190,000 hours (about 21 years)

• Integrated Industrial 3KV Ethernet surge protection

• IEEE 802.3af/at Power over Ethernet (PoE) standard

• 10/100/1000Mbps Auto-Negotiation and Auto-MDIX Gigabit Power over Ethernet RJ45 ports

• Supports 802.3af PoE Power maximum 15.4 watts and 802.3at PoE Plus maximum 30Watts and 48V DC for each PoE port

• Full wire-speed non-blocking reception and transmission

• 1MBit frame buffer memory and 8K entries MAC address table

• IEEE802.3x flow control for full-duplex mode; back pressure flow control for half-duplex mode

• Supports integrated address look-up engine, automatic address learning and address aging

• Supports Link Aggregation IEEE 802.3ad and fail over

• Supports Jumbo Frame in all speeds (up to 10K bytes packet frame size)

• Operating Temperature:-22ºF to +158ºF (-30ºC to +70ºC) C

TECHNICAL SPECIFICATIONS

Product Model	LPS840AF-T1	LPS840AT-T1
Product Name	Outdoor Gigabit 6-Port 802.3af/at PoE Switch with 2 RJ45 Uplink Ports	Outdoor Gigabit 6-Port 802.3af/at+ PoE Switch with 2 RJ45 Uplink Ports
Connector	PoE Port: 4x10/100/1000BaseT(X) self-detect	
	RJ45 Uplink Port: 2x10/100/1000BaseT(X) self-detect Uplink port	
Forwarding Mode	Store-and-forward architecture, 192K forwarding memory	
Network Medium	10BASE-T: Cat3/ 4/ 5 UTP (≤100m)	
	100BASE-TX: Cat5 or more UTP (≤100m)	
	1000BASE-TX: Cat5 or more UTP (<=100m)	
Performance Specifications	Bandwidth: 8.8Gbps (non-blocking)	
	Network Latency (100 to 100M bps): Maximum delay less than 20μs	
	Packet Buffer Memory: 96KB	
	Integrated Industrial 4KV Ethernet surge protection	
	MTBF (Mean time between failures): 190,000 hours (about 21 years)	
	Address Database Size: 1,000	
Protocols and Standards	IEEE 802.3; IEEE 802.3u; IEEE 802.3ab;	
	IEEE 802.3x Flow Control;	
	IEEE 802.1af DTE Power via MDI	
	IEEE 802.3af/ IEEE 802.3at	
LEDs Status	System: Power Every Port: connection status, PoE working status	
Power Supply	Input voltage: 120V ~ 240V AC	
	Output voltage: 48V DC	
	IEEE802.3af standard, each port power is 15.4W, total power is 65W for 4 ports	
	IEEE802.3at PoE+ standard, each port power is 30W, total power is 120W for 4 ports	
	Support OCP (Over-Current Protection) and electronic protection	
	Connection: 3-pin pluggable connecting terminal block	
Dimensions/ Weight	**Enclosure: IP66 by Latch &** IP68 by screws on top cover, shell Dimension (LxWxH): 10x8x2 inch, 254.0 x 203.2 x 50.8mm	
	Weight: 5LB, 3.0KG	
	Installation Method: Wall mount / Mast mount	
Working Environment	Operating Temperature: -30℃ ～ 70℃	
	Storage Temperature: -20°C ~ 75°C	
Radiation	FCC Part 15 Class B	
	CE Mark, Commervial	
	VCCI Class B	
	EN 55022 (CISPR 22), Class B	
Industrial Standard & Safety	CE Mark ,commercial CE/LVD EN60950, RoHS, UL60591-1	
Warranty	3 years	

ELECTRICAL PIN OUT DIAGRAM

8 7 6 5 4 3 2 1

PD and PSE Eight-Pin RJ45 Modular Jack

10/100/1000Mbps
POWER PIN OUT

1 2 3 4 5 6 7 8

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

SYSTEM CONFIGURATION

Connect Up to 4 PoE Devices

**LinkPower™ LPS840-T1
Gigabit PoE Switch**

POE FIXED CAMERA

POE ACCESS POINT

POE WIRELESS BRIDGE

POE PTZ CAMERA

Internet

SFP

NVR600 Series

100 ~ 240V AC INPUT

SFP/RJ45 Combo
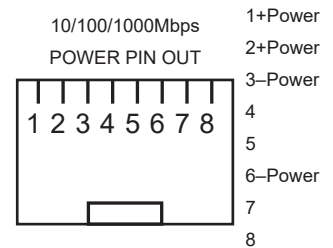
STANDARD ACCESSORIES

**PFCK0001-3
Power & Fiber Connector Kit**

**ECK0001-4
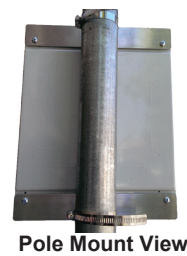Ethernet Connector Kit**

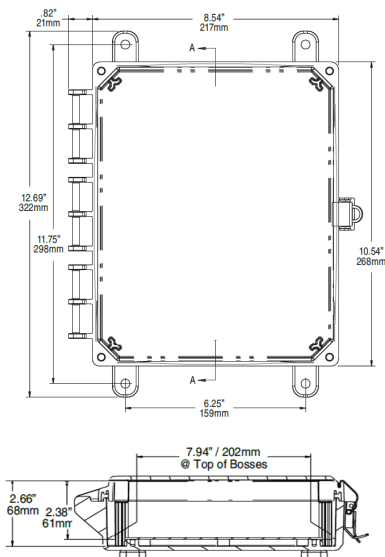**WMK0001
Wall Mounting Kit**

**APCK0001
AC Power Cable Kit**

OPTIONAL ACCESSORIES

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

Pole Mount View

ENCLOSURE DRAWINGS & INTERFACES

.82" 21mm
8.54" 217mm
A
12.69" 322mm
11.75" 298mm
10.54" 268mm
A
6.25" 159mm

7.94" / 202mm @ Top of Bosses
2.66" 68mm
2.38" 61mm

Interfaces

1. Weatherproof AC Power Connector, Hole Diameter: 20mm
2. Weatherproof PoE & Uplink Connectorr, Hole Diameter: 25mm
3. Vent Plug

1 ~ 2   1 ~ 4

RJ45 Uplink Port   PoE Ethernet Port   AC IN   Vent
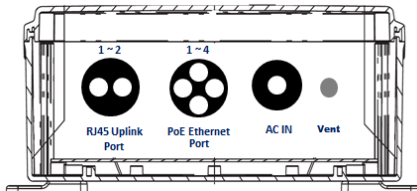
To Use Conduit Connectors, Please Refer the Hole Diameter Information Above.

PACKAGE CONTENTS

1. LPS840-T1 (1)
2. WM0001 Wall Mount Kit (1)
3. MMK0001 Pole Mount Kit (1) (Optional)
4. AC Power Cable with one 3-PIN AC Power Connector (1)
5. User Manual (1)
6. Warranty Sheet (1)

Internal (Hotel) Space: 8"x3.125"x2" (WxLxH) for Wiring Storage

InscapeData
THE LEADING OUTDOOR NETWORK APPLIANCE COMPANY

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

Product Information Online: http://www.inscapedata.com/lps800.htm

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