

# LinkPower™ LPS1000

## All Weather Adjustable Voltage PoE Switch



Remote PD Power Cycle



IP67 Weatherproof



Independent Port Voltage Adjustment



Heartbeat Monitor



Inscape Data's LinkPower™ LPS1000 All Weather Adjustable Voltage PoE Switch is the industry's first outdoor five-port Ethernet Switch with an adjustable voltage feature. Based on Inscape Data's patent-pending technology, the LPS1000 Adjustable Voltage PoE Switch offers four voltage levels, which enables a wide range of outdoor network and security applications and significantly reduces the complexity of outdoor network installation, integration and ongoing network maintenance.

The LPS1000 PoE Switch offers local power level configurations. Locally, each LPS1000 port is designed with a simple, easy-to-use push button for power level configuration. Remote monitoring over the internet can be achieved using a common internet web browser. The adjustable voltage and other dynamic features, including remote web browser PoE, remote device power cycle, heartbeat monitor and individual port troubleshooting capabilities, make the LinkPower LPS1000 the industry's most effective and robust outdoor PoE Switch.

The LPS1000 All Weather Adjustable Voltage PoE Switch is based on Inscape Data's patent-pending proprietary technologies. Inscape Data solely reserves its intellectual property rights to enforce protection of its intellectual property worldwide.

### APPLICATIONS

- Parking Lot Surveillances
- Campus Networks
- Fixed Wireless Networks
- Border Security Surveillance
- Municipal Networks
- Hospitality Networks
- Hotel Resort Networks
- Hotspot Integrations
- VOIP Services
- Traffic Monitoring

### KEY FEATURES & BENEFITS

#### Remote PD Power Cycle

Remotely Turn Power On and Off PoE Device Connected to the LPS1000

#### All Weather Enclosure\*\*

IP67 Compliant Rating And Water Tight Connectors Based On Patent Pending Technology

#### Independent Port Voltage Adjustment

Adjustable DC Voltage With Poe Voltage Of 12VDC, 24VDC, 48VDC, And IEEE 802.3af Compatible

#### Heartbeat Monitor

Monitor the System at a Regular Interval, Reboot Automatically When the System Fails

#### Remote System Reset

Remote Reset the LPS1000 System From Across the Network

#### High Power PoE

The LPS1000 Delivers Up to 150 Watts of Total Power for the Most Demanding Applications

#### Power Device Protection

Port Voltage Change Allowed Only When No Ethernet Device Connected to Port

#### Integrated Industrial Ethernet Surge Protection

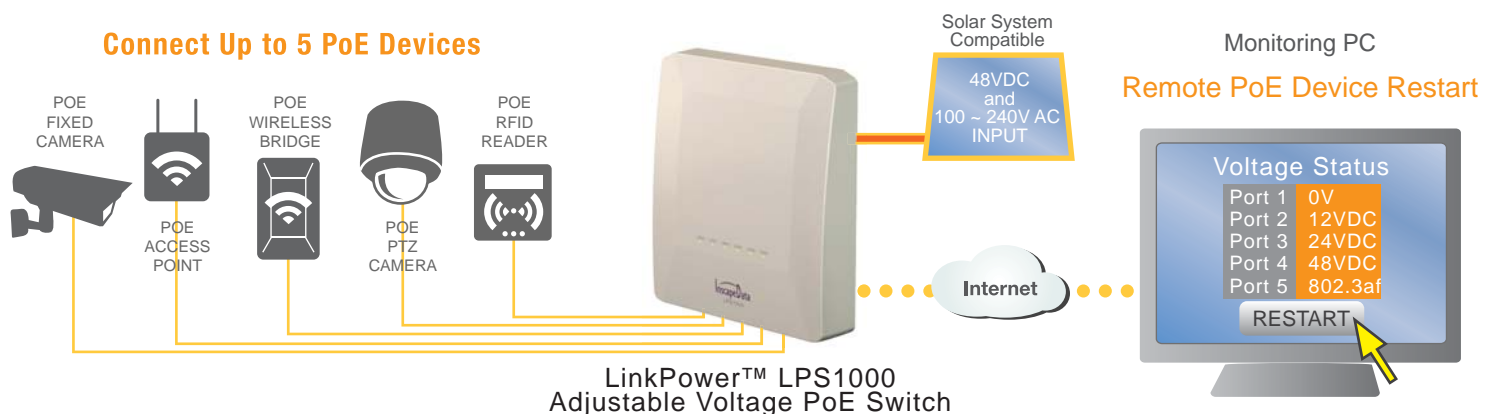
132A Peak Pulse Current Protection On Every Ethernet Port

#### 5-Port PoE Switch

Connect Up To 5 PoE Devices Or Uplink Switch At 10/100 Mbps Speeds With Auto-MDX Cross Over Feature

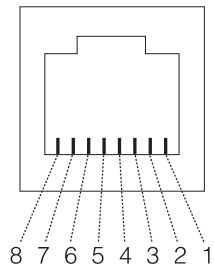
\*\* When used with the included watertight connector kit

### SYSTEM CONFIGURATIONS



Technology	
Standard	IEEE 802.3, IEEE802.3u, IEEE 802.3af, IEEE 802.1Q, IEEE 802.1p, 802.3x, IGMP v1,v2,v3
Switch Technology	Store and Forward Technology with 1.2Gbps Internal Switch Fabric
Aggregate Sys. Throughput	500 mbps
MAC Address	2K MAC Address Table
Packet Buffer	384 kbits
Power Over Ethernet	
IEEE 802.3af	Endspan Wiring Architecture Provides PD Classification Detection
Passive PoE Voltage*	0 V DC, 12 V DC, 24 V DC, 48 V DC Delivered on V+(Pin 4,5) and V-(Pin 7,8)
Voltage Configuration	Port Independent
Pin Assignment	V + (Pin 4,5), V - (Pin 7,8), TX (RJ-45 Pin 1,2), RX (RJ-45 Pin 3,6)
Network	
Data Rate	Ethernet: 10/20Mbps (half/full duplex). Fast Ethernet: 100/200Mbps (half/full duplex)
Security	Software User Authentication
Interface	
Number of Ports	Five 10/100Mbps Auto-MDIX PoE Ports, One USB Console Port
Connectors	DC Power: 2-pin Terminal Block. AC Power: 3-pin Terminal Block
Cable	10Base-TX: 4-Pair UTP/STP Category 3,4,5 Cable, EIA/TIA-568 100-Ohm (100m) 100Base-TX: 4-Pair UTP/STP Category 5 Cable, EIA/TIA-568 100-Ohm (100m)
On/Off Switch	One System Power Switch
Push Button Switch	Five Individual PoE Voltage Control Switch. One Voltage Reset All Switch. One System Reset and Factory Default Switch
Upper Case Cover LED	Five Green LAN Link LED, One Green System Power LED
Control Panel LED	LAN Activity and Speed Green LED 802.3af / 48VDC / 24VDC / 12VDC Voltage Level Green LED
Earth Ground	Ground Lug
Management	
Control Panel	Port Voltage Configuration, System Reboot
Console (USB)	System Wide Configuration
Remote (Web/HTTP)	Port Voltage and Link Monitor, Independent Port Restart / Power Cycle, System Reboot
System Reboot	Web/HTTP, Control Panel, Console
Power Requirement	
AC Input Voltage	100 ~ 250 VAC, 4A, 50/60Hz, Internal Universal Switching Power Supply
AC Input Voltage Protection	Over Load and Short Circuit Auto Recovery
DC Input Voltage	48VDC, 5.2A
Consumption*	With No PD Load: 10W. With Full PDF Load: 100W
PoE Power Limit*	The Maximum DC Power Delivery on Each PoE Port is 30W
Ethernet Surge Protection	
Protected Ports	All Five 10/100Mbps Auto-MDIX PoE Ports
Data Clamp Voltage	7.5 V DC
Power Clamp Voltage	60 V DC
Protection Mode	Line-Line and Line-GND
Response Time	< 5ns
Max Shunt Capacitance	< 25pF
Peak Pulse Current	132A
Environmental	
Construction	Bottom Case: Die cast Aluminum. Upper Case: Poly Carbonate
Dimension (WxHxD)	271mm x 315mm x 82mm
Weight	2kg
Storage Temperature	-20°C ~ +85°C (-4°F ~ 185°F)
Storage Humidity	10% ~ 90% (non-condensing)
Operating Temperature	-40°C ~ +70°C (-40°F ~ 158°F)
Operating Humidity	10% ~ 90% (non-condensing)
Outdoor Usage	Weatherproof to IP67 Compliance
MTBF	150,000 Hours, MIL-HDBK-217F GB Standard
Warranty	
	1 Year
Compliance	

\*Applicable to ±5% Tolerance



PD and PSE Eight-Pin RJ45 Modular Jack

PSE Pinout		
RJ45 Conductor Pin#	802.3af Mode A	802.3af Mode B/ Passive PoE*
1	Rx, V+	Rx
2	Rx, V+	Rx
3	Tx, V-	Tx
4	Spare	V+
5	Spare	V+
6	Tx, V-	Tx
7	Spare	V-
8	Spare	V-

PD Pinout		
RJ45 Conductor Pin#	802.3af Mode A	802.3af Mode B/ Passive PoE*
1	TX+, V+	TX+
2	TX-, V+	TX-
3	RX+, V-	RX+
4		V+
5		V+
6	RX-, V-	RX-
7		V-
8		V-

\*Passive PoE Voltage Supported by LPS1000: 0VDC, 12VDC, 24VDC, 48V

PACKAGE CONTENTS

1. LinkPower LPS1000 Adjustable Voltage PoE Switch
2. Read Me First
3. Important Note for Reverse Polarity PoE Pinout
4. Quick Install Guide
5. Resource CD with Console Port Driver, QIG, User's Manual,
6. Warranty Information
7. ECK0001 Ethernet Connector Kit
8. PCC0001 Power Cable Connector Kit
9. PCK0001 Power Cable Kit
10. CK0001 Plastic Conduit Kit
11. MWMK0001 Mast & Wall Mounting Kit

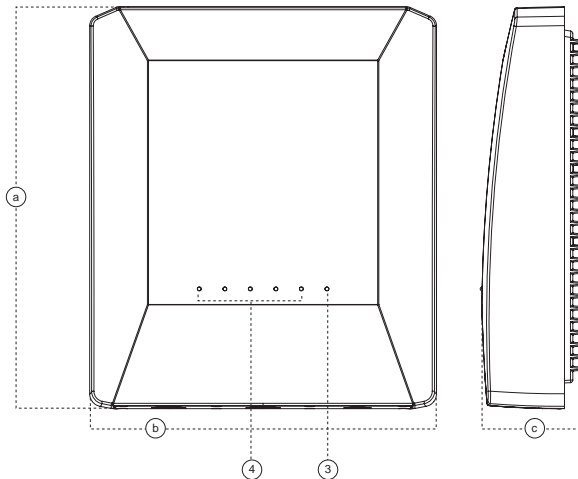
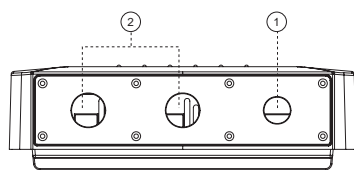
OPTIONAL ACCESSORIES

1. ZMEC0001  
Zinc Metal Ethernet Connector I
2. ZMPC0001  
Zinc Metal Power Connector Kit
3. MCEC0001  
Steel Flexible Metal Conduit for Ethernet Connector Kit
4. MCPC0001  
Steel Flexible Metal Conduit for Power Connector Kit

SYSTEM DIMENSIONS & INTERFACES

Dimensions  
a. 315.17mm  
b. 271.76mm  
c. 82.07mm

Interfaces  
1. Weatherproof Power Connector  
2. Weatherproof PoE Connector  
3. Power LED  
4. Network Link and Activity LED



THE LEADING  
OUTDOOR NETWORK  
APPLIANCE COMPANY

Product Information Online: <http://www.inscapedata.com/lps1000.htm>

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