



## Key Features & Benefits



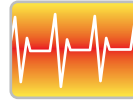
**Remote PD Power Cycle**  
 Remotely Turn Power On and Off PoE Device Connected to the LPS1000



**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

## LinkPower™ LPS1000 All Weather Adjustable Voltage PoE Switch

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.

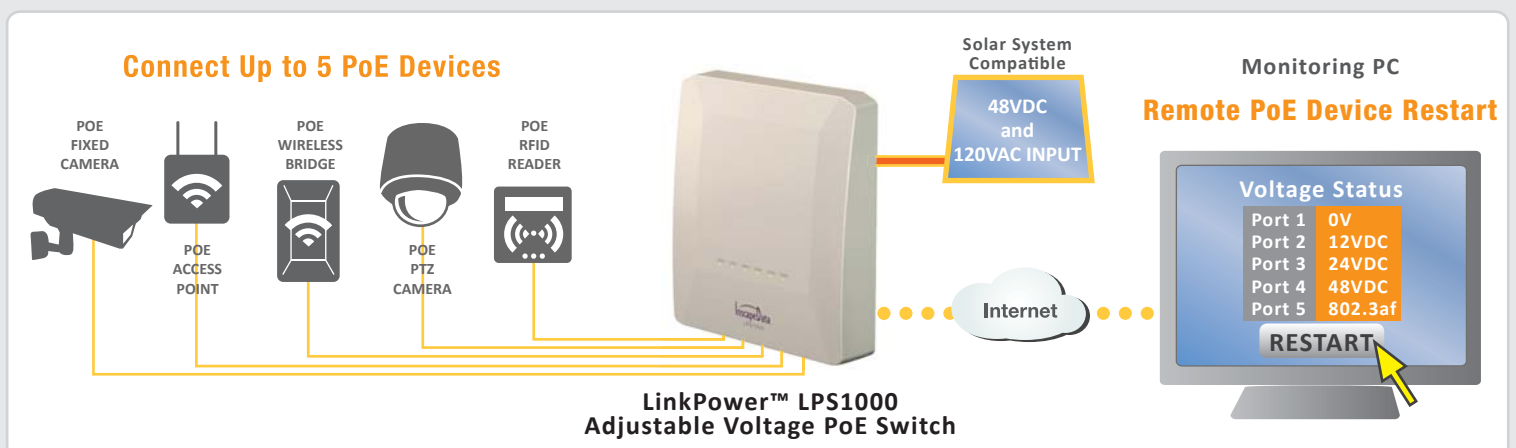
The LPS1000 PoE Switch offers local power level configurations. Locally, each LPS1000 port is designed with a simple, easy-to-use push button for power level configuration. Remote monitoring over the internet can be achieved using a common internet web browser. The adjustable voltage and other dynamic 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

## System Configurations



# Technical Specifications

## LPS1000 Adjustable Voltage PoE Switch

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



\*Applicable to ±5% Tolerance

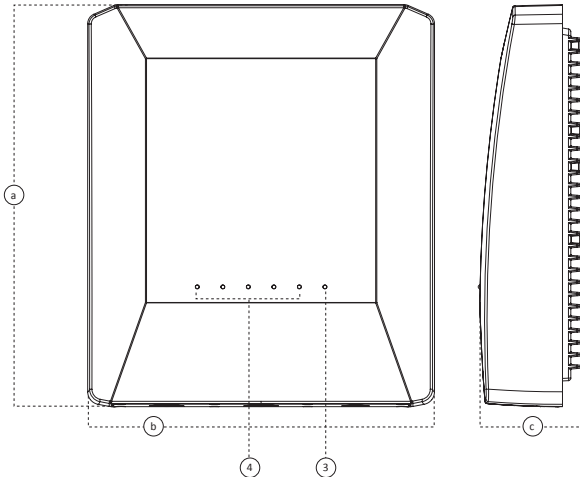
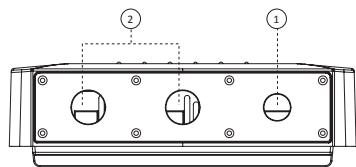
## System Dimensions & Interfaces

### Dimensions

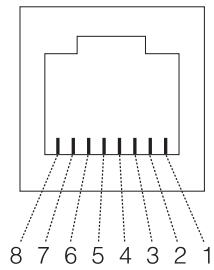
- a. 315.17mm
- b. 271.76mm
- c. 82.07mm

### Interfaces

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



## Electrical Pin Out Diagram



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, 48VDC

## 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, etc.
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 Kit



### 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



Product Information Online:

[www.inscapedata.com/lps.htm](http://www.inscapedata.com/lps.htm)



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

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