

## OUTDOOR NETWORK POWER CENTER



# LinkPower™ LPS PoE & Power Switch Series

## LPS600, LPS700 & LPS800 Series

Inscape Data's New LinkPower™ LPS600, 700, & 800 All-Weather Remote Rebootable LPS Series Product is a unique and powerful outdoor PoE & power switch uniquely designed for commercial and industrial network applications, and it offers some key benefits, such as automated monitoring, auto reboot, and easy installation. Based on Inscape Data's patent-protected technology, the LPS600, LPS700 & LPS800 Series Product offers 12 models based on various voltage and power requirements of the powered device.

All of the models share the same set of software features with the only difference in the PoE power level and AC Power feature. The key software feature is the automated monitoring, i.e., auto pin & heartbeat monitoring, over the internet by using a common internet web browser. The other key features of the LPS600, LPS700 & LPS800 include remote power reboot and individual port troubleshooting capabilities, and these key features make the LinkPower LPS600, LPS700 & LPS800 Series Product the industry's most powerful outdoor PoE & Power Switch in the industry.

### APPLICATIONS

- Smart Grid
- Parking Lot Surveillance
- Campus Network
- Fixed Wireless Network
- Border Security Surveillance
- Municipal Network
- Energy & Refineries
- Hospitality Network
- Hotel Resort Network
- Hotspot Integration
- VOIP Service
- Traffic Monitoring

### SYSTEM CONFIGURATIONS

#### PoE Switched Power



### KEY FEATURES & BENEFITS



#### Remote PD Power Cycle

**LPS600 & 800 Only**

Remotely Turn Power On and Off PoE Device Connected to the LPS600 & 800 Series Product



#### Remote AC Power Cycle

**LPS700 & 800 Only**

Remotely Turn Power On and Off the AC Power Port on the LPS800 Series Product. LPS700 Has 4 AC Ports While the LPS800 Has 2 AC Ports in Addition to the PoE Port



#### Heartbeat Monitor

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



#### Auto Ping

User Configurable Auto Ping, Powered Port Reset Automatically, When Ping Fails. LPS800 Remote AC Power Reboot Automatically

#### Remote System Reset

Remote Reset the System From Across the Network

#### Integrated Industrial Ethernet Surge Protection

132A Peak Pulse Current Protection On Every Ethernet Port

#### Integrated Industrial AC Port Surge Protection

#### All Weather Enclosure\*

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

#### External LEDs

Highly Visible LED Indicator for Ethernet Link, PoE Power, System Power, & AC Output Port.

#### Redundant DC Power Input

**LPS600 Only**

\* When used with the included watertight connector kit

<sup>1</sup>Voltage Status can be 12V DC, 24V DC, 48V DC, or 802.3af depending on the models.

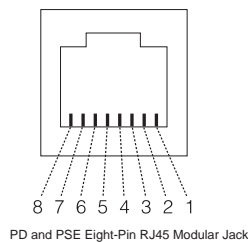
## LPS600/LPS700/LPS800 Series

<b>Technology</b>	
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 600mbps Internal Switch Fabric
Aggregate Sys. Throughput	300 mbps
MAC Address	1K MAC Address Table
Packet Buffer	384 kbits
<b>Power Over Ethernet</b>	
IEEE 802.3af	Endspan Wiring Architecture Provides PD Classification Detection (Model Specific)
Passive PoE Voltage*	12 V DC, 24 V DC, 48 V DC Delivered on V+(Pin 4,5) and V-(Pin 7,8)
Pin Assignment	V + (Pin 4,5), V - (Pin 7,8), TX (RJ-45 Pin 1,2), RX (RJ-45 Pin 3,6)
<b>Network</b>	
Data Rate	Ethernet: 10/20Mbps (half/full duplex). Fast Ethernet: 100/200Mbps (half/full duplex)
Security	Software User Authentication
<b>Interface</b>	
Number of Ports	Two 10/100Mbps Auto-MDIX PoE Ports, One Engineering Use Console Port
Connectors	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	One System Reset and Factory Default Switch
Upper Case Cover LED	One Green LAN Link LED, One Green System Power LED, One to Four Green AC Port Power LED (Model Specific)
Control Panel LED	LAN Activity and Speed Green LED
Earth Ground	Ground Lug
<b>Management</b>	
Control Panel	System Reset, Factory Default
Console (Internal)	Production and Engineering Use Only
Remote (Web/HTTP)	Port Voltage and Link Monitor, Port Restart/Power Cycle, System Reboot, Network Settings, Heartbeat Monitor (Autoping or scheduled Port Power Cycle), Administrative User/Password Change
System Reset	Web/HTTP, Control Panel
<b>Power Requirement</b>	
AC Input Voltage	100 ~ 250 VAC, 1A, 50/60Hz, Internal Universal Switching Power Supply
AC Input Voltage Protection	Over Load and Short Circuit Auto Recovery
Consumption	With No PD Load: 10W. With Full PDF Load: 30W
PoE Power Limit	The Maximum DC Power Delivery on Each PoE Port is 30W
<b>Ethernet Surge Protection</b>	
Protected Ports	All Ports 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
<b>Environmental/Mechanical</b>	
Construction	Aluminum
Dimension (WxHxD)	150mm x 200mm x 50mm
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
<b>MTBF</b>	
	150,000 Hours, MIL-HDBK-217F GB Standard
<b>Warranty</b>	
	1 Year
<b>Compliance</b>	



Series	Model No.	Adjustable Voltage (Y/N)	PoE Voltage per Port	PoE Current per Port	PoE Power Forwarding	Power Consumption	No. of AC Power Port Output	No. of PoE Power Port	No. of Ethernet Port	Input Power
LPS600 Series	LPS612	No	12V DC	1.5A	18.0W	2.3W	0	2	0	AC, DC
	LPS624	No	24V DC	0.83	20.0W	2.3W	0	2	0	AC, DC
	LPS630	No	30V DC	0.5A	15W	2.3W	0	2	0	AC, DC
	LPS648	No	48VDC	0.625	30.0W	2.3W	0	2	0	AC, DC
	LPS656	No	56V DC	0.5A	28W	2.3W	0	2	0	AC, DC
	LPS600af	No	802.3af	0.320A	15.4W	2.3W	0	2	0	AC, DC
LPS700 Series	LPS710	No	N/A	1.36A	150W	3W	4	0	1	110V AC
	LPS720	No	N/A	0.68A	150W	3W	4	0	1	220V AC
LPS800 Series	LPS812	No	12V DC	1.5A	18.0W	2.7W	2	1	1	AC
	LPS824	No	24V DC	0.83	20.0W	2.7W	2	1	1	AC
	LPS830	No	30V DC	0.5A	15W	2.7W	2	1	1	AC
	LPS848	No	48V DC	0.625	30.0W	2.7W	2	1	1	AC
	LPS856	No	56V DC	0.5A	28W	2.7W	2	1	1	AC
	LPS800af	No	802.3af	0.320A	15.4W	2.7W	2	1	1	AC

ELECTRICAL PIN OUT DIAGRAM



PACKAGE CONTENTS

1. LinkPower LPS600, LPS700, or LPS800 PoE Switch
2. Read Me First
3. Quick Install Guide
4. Resource CD with Console Port Driver, QIG, User's Manual, etc.
5. Warranty Information
6. ECK0001 Ethernet Connector Kit
7. PCC0001 Power Cable Connector Kit
8. PCK0001 Power Cable Kit
9. CK0001 Plastic Conduit Kit
10. MWMK0001 Mast & Wall Mounting Kit

OPTIONAL ACCESSORIES

1. ZMEC0001 Zinc Metal Ethernet Connector K



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



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



THE LEADING  
OUTDOOR NETWORK  
APPLIANCE COMPANY

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