InscapeData

THE LEADING OUTDOOR NETWORK APPLIANCE COMPANY
Total Turnkey Solutions for Outdoor PoE, Wired/Wireless, and IP Video Applications

LinkPower™ LPS2000
All Weather 5-Port Gigabit PoE Switch

IEEE802.3at High Power PoE

5 Gigabit PoE Ports

Surge Protection

IP67 All Weather

The LinkPower™ LPS2000 5-Port Gigabit PoE (Power over Ethernet) Switch is the industry first outdoor weatherproof high speed gigabit Ethernet switch that delivers data and power over one single network cable protected with an IP67 compliant weatherproof enclosure. The LPS2000/3000 gigabit PoE switch is designed for industrial and commercial applications, e.g., video surveillance, remote security, wireless mesh, and carrier wifi installations.

The LPS2000 Gigabit PoE Switch is an unmanaged network switch with Link Aggregation, VLAN, Trunking, and QoS technology to meet the accelerating demand for powering the most demanding outdoor PoE devices. The LPS2000 Gigabit PoE Switch provide LED displays that show device status for easy power management and troubleshooting. The PoE technology conveniently eliminates the need to install networked devices, such as Inscape Data's IP cameras and SB54/BR54, and SB3000/BR3000 wireless products, thereby reducing equipment and installation costs. The LPS2000 Gigabit PoE Switch offers the following key features.

APPLICATIONS

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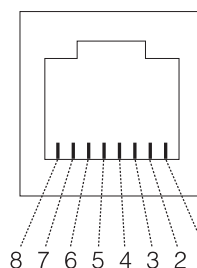- *Hotspot Integrations*
- *VOIP Services*
- *Traffic Monitoring*

KEY PRODUCT FEATURES

- IP67 All Weather Enclosure
- Integrated Industrial Ethernet Surge Protection
- IEEE 802.3at Type 2 Power over Ethernet (PoE) standard
- 5 x 10/100/1000Mbps Auto-Negotiation and Auto-MDIX Gigabit Power over Ethernet RJ45 ports
- Supports PoE power maximum 25.3 watts and 57 Volts for each PoE port
- 5 LEDs for individual port status: PoE class, maximum power allocation
- 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)
- Diagnostic LED´s on the front cover

SYSTEM CONFIGURATIONS

LinkPower™ LPS2000
5-Port Gigabit PoE Switch

Connect Up to 5 PoE Devices

POE FIXED CAMERA

POE ACCESS POINT

POE WIRELESS BRIDGE

POE PTZ CAMERA

POE RFID READER

Internet

Solar System Compatible

48VDC and 100 ~ 240V AC INPUT

TECHNICAL SPECIFICATIONS

Hardware Specifications

Standard	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE 802.3z 1000Base-T
	IEEE802.1Q Tag-VLAN, IEEE 802.1D Spanning Tree, IEEE 802.1w Rapid Spanning Tree, IEEE802.1s Multiple VLAN Spanning Tree Programmable per-port VLAN Configurations
	IEEE 802.1x (MD5), IEEE 802.1p QoS
	IEEE 802.3x Flow Control, IEEE 802.1D Port States Filtering
	IEEE802.3at Power over Ethernet
Network Media	10Mbps: Cat 3,4,5 Unshielded Cable
	100Mbps: Cat 5, 5E, 6 Unshielded Cable
	1000Mbps: Cat 5E, 6 Unshielded cable
Protocol / Topology	CSMA/CD ; Star
Interface	5x 10/100/1000Mbps Auto-MDIX PoE ports
On-Chip Memory	1Mbit on-chip memory with true non-blocking switching performance
	Up to 8K MAC address entries for lookup engineer with automatic learing and aging
Data Transfer Rate	Ethernet: 10/20Mbps (half/full duplex)
	Fast Ethernet: 100/200Mbps (half/full duplex)
	Gigabit: 2000Mbps (full duplex)
RAM Buffer /Filtering	Support up to 10K Byte jumbo frames
	Up to 8K active nodes
	1Mbit frame buffer memory
Switch Fabric	10G forwarding capacity
Power	Input: 100~240VAC, 50/60Hzinternal power supply
Diagnostic LEDs	Per Unit: Power
	Per Port: Link/Activity, Speed
	PoE: PoE Fault / PoE Operating
Power Consumption	150 watts max (with PoE Device connected)
Humidity	5%- 90% (non-condensing)
Temperature Range	Operating:–40°C to 85°C
	Storage: −20°C to 85°C

PoE

Power over Ethernet	IEEE802.3at 25.3W, 57VDC maximum (Ports 1- 5), type 2
Certification	FC CE **RoHS** (UL) 60950, 60601-1

ELECTRICAL PIN OUT DIAGRAM

8 7 6 5 4 3 2 1

PD and PSE Eight-Pin RJ45 Modular Jack

PSE Pinout		
RJ45 Conductor Pin#	802.3at Mode A	802.3at Mode B
1	TxRx A+ DC+	TxRx A+
2	TxRx A- DC+	TxRx A-
3	TxRx B+ DC-	TxRx B+
4	TxRx C+	TxRx C+ DC+
5	TxRx C-	TxRx C- DC+
6	TxRx B- DC-	TxRx B-
7	TxRx D+	TxRx D+ DC-
8	TxRx D-	TxRx D- DC-

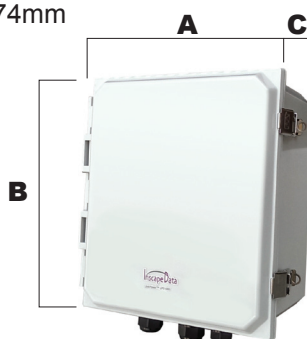| PD Pinout		
RJ45 Conductor Pin#	802.3at Mode A	802.3at Mode B
1	TxRx A+ DC+	TxRx A+
2	TxRx A- DC+	TxRx A-
3	TxRx B+ DC-	TxRx B+
4	TxRx C+	TxRx C+ DC+
5	TxRx C-	TxRx C- DC+
6	TxRx B- DC-	TxRx B-
7	TxRx D+	TxRx D+ DC-
8	TxRx D-	TxRx D- DC-

PACKAGE CONTENTS

1. LinkPower LPS2000 5-Port Gigabit 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

SYSTEM DIMENSIONS & INTERFACES

Dimensions
A. 272mm
B. 303mm
C. 174mm

Interfaces
1. Weatherproof Power Connector
2. Weatherproof PoE Connector
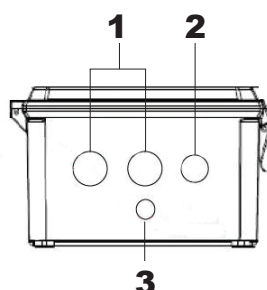3. Vent Plug

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

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Product Information Online: http://www.inscapedata.com/lps2000-3000.htm

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