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> [keepLiNK Industrial Outdoor Unmanaged Gigabit PoE Switch with 8 PoE+ Ports, 2 SFP Slots, 300W Power, Air Circuit Breaker, AC Surge Protector, IP55 User Manual](#)

### keepLiNK KP-9000-S340-N28-AC22

# keepLiNK Industrial Outdoor Unmanaged Gigabit PoE Switch User Manual

**Model:** KP-9000-S340-N28-AC22 | **Brand:** keepLiNK

## 1. INTRODUCTION

Thank you for choosing the keepLiNK Industrial Outdoor Unmanaged Gigabit PoE Switch. This device is designed for robust outdoor network deployments, offering reliable Power over Ethernet (PoE) capabilities and advanced protection features. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your switch.

## 2. SAFETY INFORMATION

- **Electrical Safety:** Ensure all power connections are made by qualified personnel and comply with local electrical codes. Disconnect power before performing any maintenance or installation.
- **Grounding:** Proper grounding is crucial for lightning protection and safe operation. Ensure the device is correctly grounded as per installation instructions.
- **Environmental Conditions:** While designed for outdoor use, avoid exposing the device to extreme conditions beyond its specified operating temperature range (-20°C to 75°C / 4°F to 167°F).
- **Enclosure Security:** The enclosure is equipped with a lock and key. Keep it secured to prevent unauthorized access and potential theft.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- keepLiNK Industrial Outdoor Smart Enclosure x 1
- Steel Rings (for pole mounting) x 2
- Expansion Bolts (for wall mounting) x 4
- Key x 1
- Product Manual x 1

# Équipé d'accessoires d'installation

Il peut être installé sur un mur ou sur un pilier



Image: Included accessories for installation.

## 4. PRODUCT FEATURES

- **Integrated Industrial PoE Switch Module:** Features 8 full Gigabit PoE+ ports and 2 SFP slots. Supports IEEE802.3af/at protocol, providing a maximum of 30W per port and a total power budget of 300W for the entire device.
- **IP55 Protection Level:** Industrial-grade protection against dust, water, shock, weather, and electromagnetic radiation. The enclosure includes a lock and key to prevent theft.
- **Lightning Protection:** Integrated surge arrester and air circuit breaker effectively prevent lightning strikes and overloads (6 kV lightning protection).
- **Durable and Robust Construction:** The enclosure is made from 1.2 mm thick galvanized steel sheet, ensuring high durability and rust prevention. Dimensions: 13.39 x 9.65 x 9.45 inches (34 x 24.5 x 24 cm).
- **Fan Cooling:** Equipped with an integrated cooling fan, allowing the machine to operate within a temperature range of -20°C to 75°C (4°F to 167°F).
- **Advanced Functions (DIP Switches):** Includes 4 built-in DIP switches for:
  - **AI PoE:** Intelligent PoE management.
  - **Ultra Long-Distance Transmission:** Extends transmission up to 820.21 feet (250 meters). Note: Bandwidth will drop to 10 Mbps in this mode.

- **Port Isolation:** Isolates ports for enhanced security.
- **QoS (Quality of Service):** Prioritizes network traffic.



**Commutateur PoE Gigabit industriel intégré à 10 ports, non géré, avec protection IP55**

2 emplacements SFP

8 ports PoE+

- Prise en charge IEEE802.3af/at
- Protection contre la foudre 6 kV
- Refroidissement par ventilateur
- Capacité de commutation 26 G
- Watch Dog
- Isolation des ports
- QoS
- Transmission à 250 mètres

Image: Key features of the industrial PoE switch.

# Boîtier intelligent multifonction intégré Protection complète

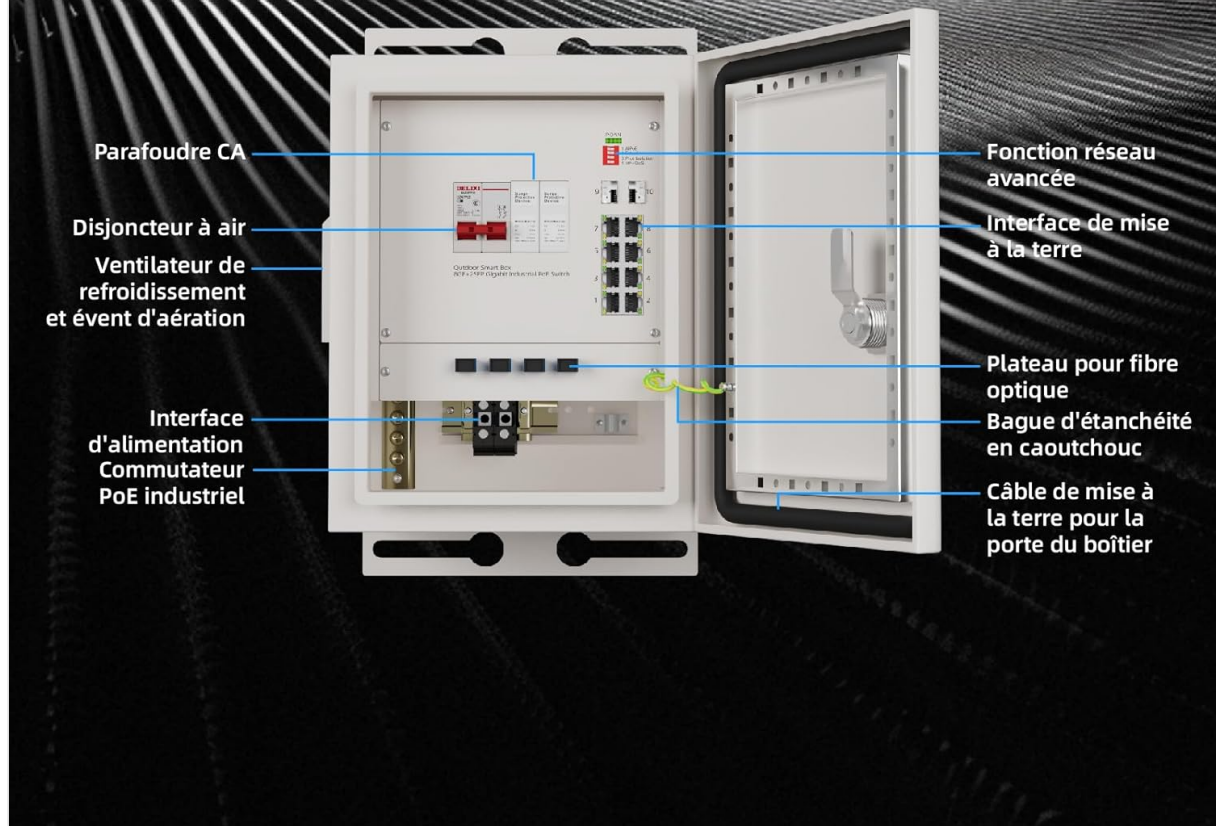


Image: Internal components and protective elements.

## 5. SETUP AND INSTALLATION

The keepLiNK Industrial Outdoor PoE Switch offers multiple installation methods:

### 5.1 Mounting Options

- **Wall Installation:** Use the provided expansion bolts to securely fix the enclosure to a sturdy wall.
- **Pole/Column Installation:** Use the provided steel rings to attach the enclosure to a wooden pole or column.



Image: Wall and pole mounting diagrams.

## 5.2 Connecting Power and Network Cables

1. **Power Connection:** Connect the AC power input to a suitable power source. Ensure the air circuit breaker is in the OFF position during connection.
2. **Grounding:** Connect the grounding wire from the enclosure to a reliable earth ground.
3. **PoE Device Connection:** Connect your PoE-powered devices (e.g., IP cameras, wireless access points, LED lighting) to the 8 PoE+ ports using standard Ethernet cables.
4. **Non-PoE Device Connection:** Connect non-PoE network devices (e.g., routers, computers, NVRs) to the SFP slots (with appropriate transceivers) or other network ports if available.
5. **Secure Enclosure:** Close and lock the enclosure door after all connections are made.



Image: PoE and non-PoE device connection diagram.

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On

After all connections are secure, switch the air circuit breaker to the ON position. The device will power on, and connected PoE devices will receive power automatically.

## 6.2 DIP Switch Functions

The switch features four DIP switches to enable specific functions:

- **AI PoE:** When enabled, the switch intelligently manages PoE power, detecting and restarting unresponsive PoE devices.
- **Long-Distance Transmission (250m):** Activates extended range mode for PoE ports, allowing data and power transmission up to 250 meters. Note that in this mode, the port speed will be reduced to 10 Mbps.
- **Port Isolation:** Isolates individual PoE ports, preventing direct communication between devices connected to these ports, enhancing security.
- **QoS (Quality of Service):** Prioritizes network traffic for critical applications, ensuring smoother performance for video streams or voice communications.

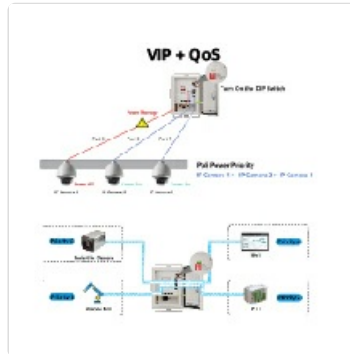


Image: AI PoE function explanation.

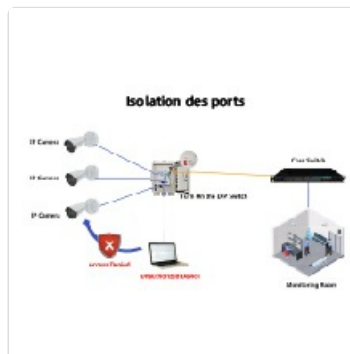


Image: Extended transmission mode.

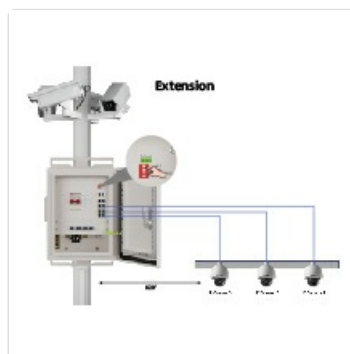


Image: Port isolation function.

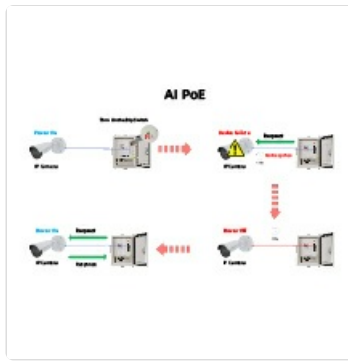


Image: QoS function for traffic prioritization.

## 7. MAINTENANCE

- **Regular Inspection:** Periodically check the enclosure for any signs of damage, corrosion, or loose connections.
- **Cleaning:** Keep the exterior of the enclosure clean. For internal cleaning, ensure power is disconnected and use a soft, dry cloth. Do not use liquid cleaners.
- **Fan Operation:** Ensure the cooling fan is free from obstructions and operating correctly to maintain optimal internal temperature.
- **Security:** Always keep the enclosure locked to protect internal components and prevent unauthorized access.

## 8. TROUBLESHOOTING

- **No Power:** Check the power source, the air circuit breaker, and all power cable connections. Ensure the power indicator light is on.
- **No Network Connectivity:** Verify Ethernet cable connections to both the switch and the connected devices. Check the link/activity LEDs on the ports. Ensure DIP switch settings are appropriate for your network configuration.
- **PoE Device Not Powering On:** Confirm the connected device is PoE compatible (IEEE802.3af/at). Check the PoE status LED for the specific port. Ensure the total power consumption does not exceed the 300W budget. If AI PoE is enabled, the switch may attempt to restart the device.
- **Slow Network Speed:** If using the long-distance transmission mode, expect a speed reduction to 10 Mbps. Check for network congestion or faulty cables.
- **Lightning Protection Tripped:** If the air circuit breaker trips, it indicates a power surge. Inspect the power line and connected devices for damage before resetting the breaker.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	KP-9000-S340-N28-AC22
Manufacturer	keepLiNK
Dimensions (L x W x H)	24.5 x 24 x 24 cm (9.65 x 9.45 x 9.45 inches)
Weight	730 grams
Material	Galvanized Steel Sheet

PoE Ports	8 x Gigabit PoE+ (IEEE802.3af/at)
SFP Slots	2 x Gigabit SFP
Max Power per PoE Port	30W
Total PoE Power Budget	300W
Protection Rating	IP55
Lightning Protection	6 kV (Integrated Surge Arrester and Air Circuit Breaker)
Operating Temperature	-20°C to 75°C (4°F to 167°F)
Cooling	Integrated Fan
DIP Switch Functions	AI PoE, 250m Long-Distance, Port Isolation, QoS

## 10. WARRANTY AND SUPPORT

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This keepLiNK product comes with a **1-year manufacturer warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or visit the official keepLiNK website for contact information. Please have your model number (KP-9000-S340-N28-AC22) and proof of purchase ready when contacting support.