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› Binardat Outdoor PoE Passthrough Switch (100M Outdoor) Instruction Manual

Binardat 100M Outdoor

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Model: 100M Outdoor

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Binardat Outdoor PoE Passthrough Switch, Model 100M Outdoor. This device is designed to extend Power over Ethernet (PoE) connectivity in outdoor and challenging indoor environments, offering 1 PoE input and 3 PoE outputs at 100Mbps.

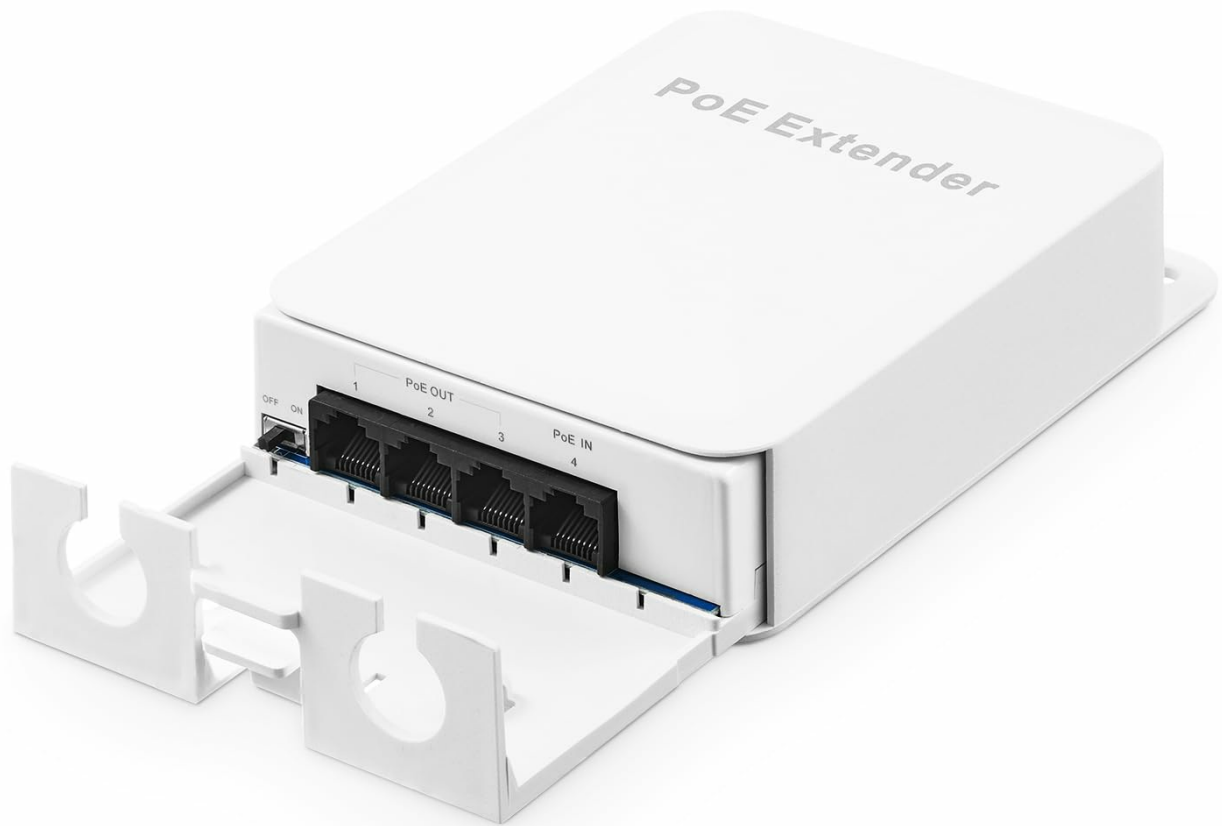


Image: Binardat Outdoor PoE Passthrough Switch, showing its compact design.

PRODUCT FEATURES

- **PoE Passthrough:** Includes 1 PoE In and 3 PoE Out ports, supporting 10/100Mbps data rates. Powered directly by the PoE network, eliminating the need for an external AC power supply.
- **IEEE 802.3af/at Compliance:** Supports standard PoE, with a maximum input of 30W and a maximum output of 24W, averaging 8W per port. PoE voltage range is 44-57 Vdc. PoE pin configuration: Input: 1/2 (+), 3/6 (-), 4/5(+), 7/8(-); Output: 1/2 (+), 3/6 (-).
- **Outdoor Weatherproof Design:** Constructed with an industrial-grade ABS polymer shell. All cable interfaces are protected within the shell, providing enhanced waterproof, dustproof, and snowproof capabilities, suitable for outdoor deployment and complex indoor environments like warehouses or attics.
- **Plug & Play Operation:** Features automatic power detection. Simply connect Ethernet cables directly to devices; no configuration is required. LED indicators display port status. *Note: Does not support 24V passive PoE.*
- **VLAN Mode and 250m Extension:** Supports VLAN mode and extends PoE transmission up to 250 meters, controlled by a dipswitch.
- **Easy Installation:** Designed for wall mounting, with a compact size to save space. Supports 3-level cascading to

extend PoE coverage for devices like PoE access points, cameras, and IP phones.



Image: Overview of the Binardat Outdoor PoE Extender highlighting key features like 100Mbps, IEEE802.3af/at support, PoE Powered, Multiple Levels Cascade Support, Port-based VLAN, IP55 Waterproof, Wall Mount, and Plug and Play.

PACKAGE CONTENTS

The package includes the following items:

- 1 x Binardat Outdoor PoE Passthrough Extender (Model 100M Outdoor)

SAFETY INFORMATION

- Read all instructions carefully before installation and operation.
- Ensure the input PoE source is compliant with IEEE 802.3af/at standards and provides 44-57 Vdc. This device does not support 24V passive PoE.
- Do not open the device casing. Refer all servicing to qualified personnel.

- Avoid exposing the device to extreme temperatures or humidity beyond its specified operating conditions.
- Ensure proper cable management to prevent damage and maintain waterproof integrity.

SETUP

1. Mounting the Extender:

The PoE extender is designed for wall mounting. Use appropriate screws and anchors (not included) to secure the device to a stable surface. Ensure the mounting location allows for proper cable routing and access to the dipswitch if needed.



Image: The PoE extender mounted on a wall, demonstrating its compact size and mounting holes.

2. Connecting the PoE Input:

Connect an Ethernet cable from your PoE switch or PoE injector (IEEE 802.3af/at compliant) to the "PoE IN" port on the extender. This port also supplies power to the extender itself.

PoE+ IEEE802.3af/at Support

Compliant with IEEE 802.3af/at PoE standards, automatically detect and provide the required power for PDs



IEEE 802.3af/at
PoE Standard



30W
Total PoE Power



48V
Port Output Voltage

MAX 30W Power → Data

▶ IP Camera

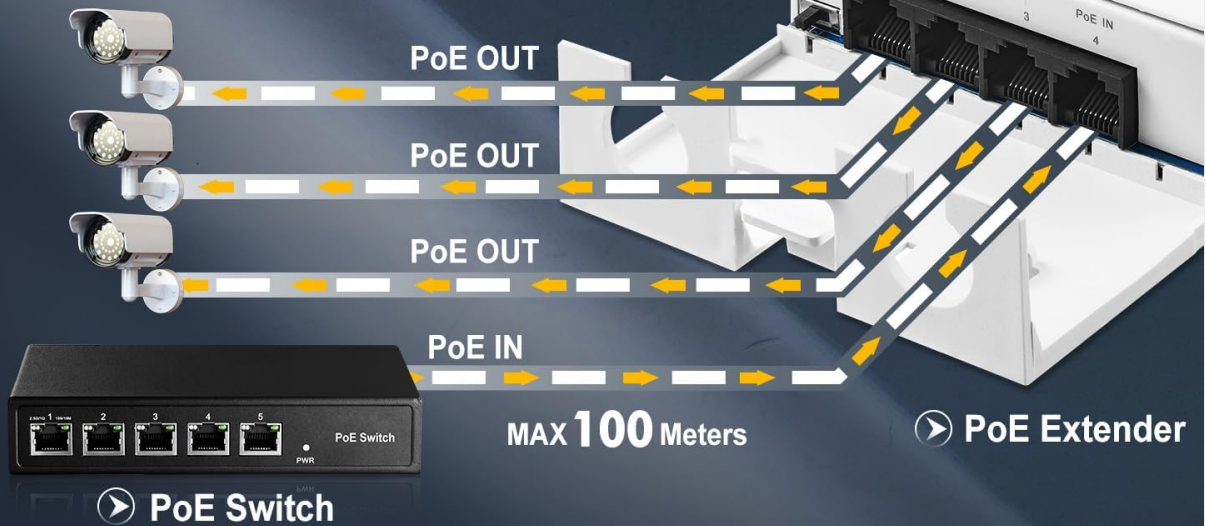


Image: Diagram illustrating the connection from a PoE switch to the "PoE IN" port of the extender, showing power and data flow.

3. Connecting PoE Output Devices:

Connect your PoE-powered devices (PDs) such as IP cameras, wireless access points, or VoIP phones to the "PoE OUT 1", "PoE OUT 2", and "PoE OUT 3" ports. The extender will automatically detect and provide the necessary power to these devices.

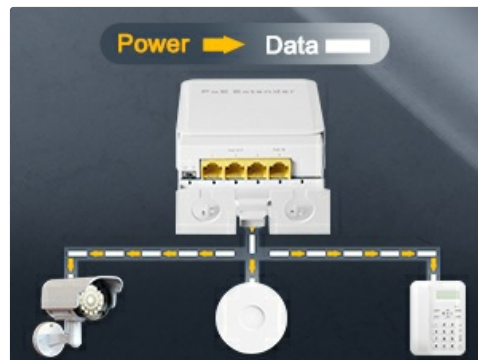


Image: Close-up view of an Ethernet cable being plugged into one of the PoE OUT ports, ready to connect to a device.

4. Cascading Extenders (Optional):

For extended range, you can daisy-chain up to 3 PoE extenders. Connect the "PoE OUT" port of one extender to the "PoE IN" port of the next. This allows for a total transmission distance of up to 1000ft (300m).

Daisy Chain up to 3 PoE Extenders Total Distance up to 1000ft(300m)

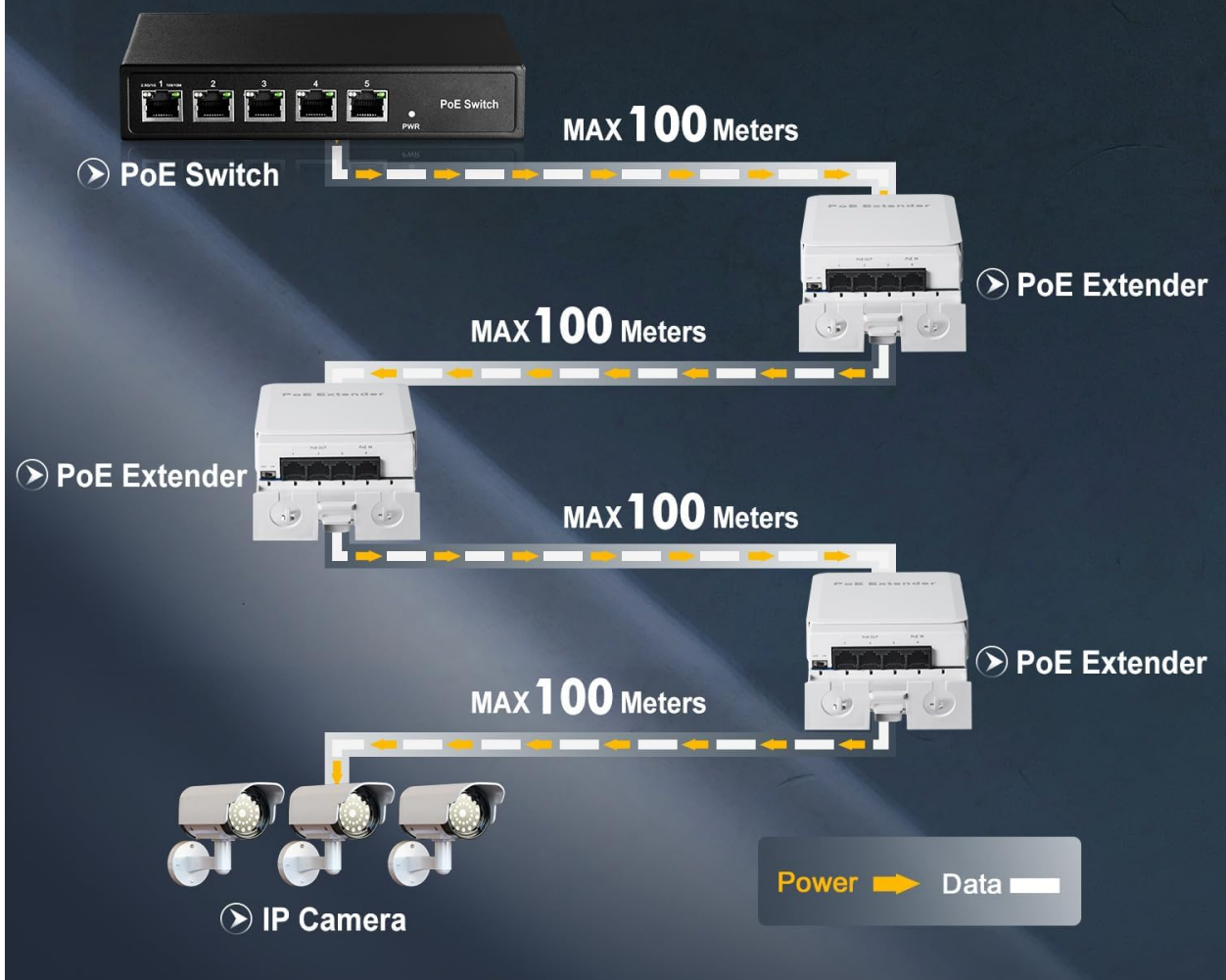


Image: Diagram showing three PoE extenders connected in a daisy chain configuration, extending the network range from a PoE switch to IP cameras.

5. VLAN Mode Configuration (Optional):

The device features a dipswitch to enable VLAN mode. When VLAN mode is active, ports 1-3 are isolated from each other, preventing broadcast storms from affecting connected IP cameras. Refer to the device's labeling for the specific dipswitch position for VLAN mode.

Port-based VLAN

Port 1-3 can be isolated from each other via DIP switch. This can help to prevent IP camera's broadcast storms from affecting each other



Image: Diagram illustrating the VLAN mode dipswitch and how it isolates traffic between connected devices (VLAN 1, VLAN 2, VLAN 3).

OPERATING INSTRUCTIONS

- **Power On:** Once the PoE IN port is connected to a compliant PoE source, the extender will power on automatically. No manual power button is required.
- **LED Indicators:** The device features LED indicators that display the status of each port. A lit LED typically indicates an active connection and power delivery. Refer to the device's labeling for specific LED meanings.
- **Data Transmission:** The extender supports 10/100Mbps Ethernet data transmission. Ensure your connected devices are compatible with this speed.
- **VLAN Mode:** If VLAN mode is enabled via the dipswitch, traffic between the PoE OUT ports will be isolated. This is beneficial for preventing network congestion in multi-camera setups.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.
- **Environmental Protection:** While the device is weatherproof (IP55 rated), it is recommended to install it in a location

that offers some protection from direct, prolonged exposure to extreme weather conditions (e.g., under an overhang) to maximize its lifespan.

- **Cable Integrity:** Periodically inspect Ethernet cables for any signs of wear or damage, especially in outdoor installations. Ensure all connections are secure.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to extender or connected devices.	Incorrect PoE input voltage. Non-compliant PoE source. Faulty Ethernet cable. PoE source not active.	Ensure the PoE input is 44-57 Vdc (IEEE 802.3af/at compliant). This device does not support 24V passive PoE. Verify your PoE switch/injector is active and providing power. Check all Ethernet cable connections for proper seating and integrity. Try a different cable.
Connected device has no network connectivity.	Faulty Ethernet cable. Incorrect port connection. VLAN mode interfering. Device compatibility issue.	Check Ethernet cables. Ensure the device is connected to a "PoE OUT" port. If VLAN mode is enabled, ensure your network configuration accounts for port isolation. Try disabling VLAN mode temporarily to test. Verify the connected device is compatible with 10/100Mbps Ethernet.
LED indicators are off or blinking abnormally.	No power. No link. Device malfunction.	Refer to "No power" troubleshooting steps. Ensure Ethernet cables are properly connected and the connected device is active. If issues persist after basic troubleshooting, contact support.

SPECIFICATIONS

Model Number	100M Outdoor
Brand	Binardat
Interface Type	PoE
Number of Ports	1 PoE In, 3 PoE Out
Data Transfer Rate	100 Megabits Per Second (10/100Mbps)

PoE Standard	IEEE 802.3af/at
Input Voltage	44-57 Vdc
Maximum Input Power	30 Watts
Maximum Output Power	24 Watts (Average 8W per port)
PoE Pin Assignment	Input: 1/2 (+), 3/6 (-), 4/5(+), 7/8(-); Output: 1/2 (+), 3/6 (-)
Weatherproof Rating	IP55
Material	Industrial grade ABS polymer
Dimensions (L x W x H)	Approximately 6.02 x 3.62 x 1.26 inches (153 x 92 x 32 mm)
Item Weight	5.6 ounces (0.16 Kilograms)
Compatible Devices	IP Cameras, Wireless Access Points, VoIP Phones, etc.

4-Port 100M Outdoor PoE Extender with 3-Port PoE Out and 1-Port PoE In

1x100M
PoE In Port

3x100M
PoE Out Ports

30W
Input Power

24W
OutPut Power

1Gbps
Bandwidth

0.74Mpps
Pack Forward Rate

100m
PoE Distance

1/2+, 3/6-
PoE Pin



IP55 Waterproof

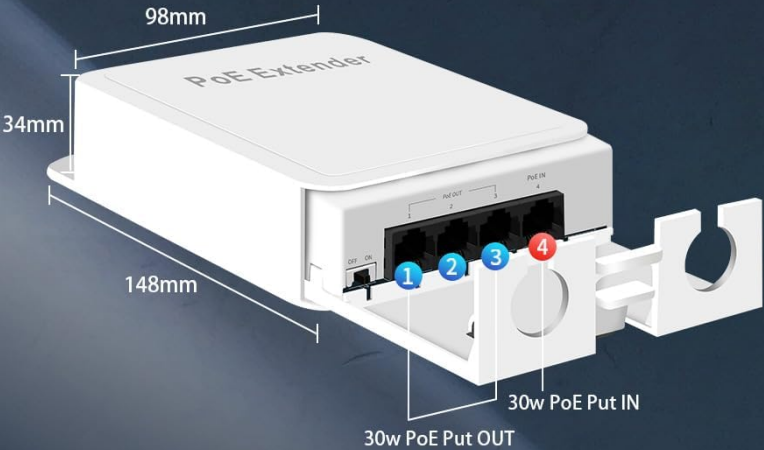


Image: Detailed view of the PoE extender with key specifications and dimensions labeled.

WARRANTY INFORMATION

Binardat products are covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Binardat website. Keep your proof of purchase for warranty claims.

SUPPORT

If you encounter any issues or have questions regarding your Binardat Outdoor PoE Passthrough Switch, please contact Binardat customer support. You can often find support contact information on the product packaging, the official Binardat website, or through your retailer.

For more information about Binardat products, visit the [Binardat Store on Amazon](#).