NICGIGA NOS-GS0410P

NICGIGA 5-Port Gigabit Outdoor Waterproof PoE Switch Instruction Manual

Model: NOS-GS0410P | Brand: NICGIGA

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your NICGIGA 5-Port Gigabit Outdoor Waterproof PoE Switch. Please read this manual thoroughly before using the device to ensure proper functionality and safety. This unmanaged switch is designed for outdoor environments, offering reliable Power over Ethernet (PoE) connectivity for various devices.

2. Product Features

- **5-Port Gigabit Connectivity:** Includes 4x 10/100/1000 Mbps PoE ports and 1 Gigabit uplink port.
- **PoE+ Support:** PoE ports support IEEE 802.3af/at standards, delivering up to 30W of power per port with a total PoE power budget of 78W. (Note: Only 48V PoE devices are supported).
- **Outdoor Durability:** Features an IP65 protection grade and 4KV lightning protection design, suitable for harsh outdoor environments from -10℃ to +55℃ (14℉ to 131℉).
- **One-Key VLAN:** When VLAN mode is enabled, ports 1-4 are isolated from each other but communicate with the uplink port, enhancing network security.
- **Unmanaged & Plug & Play:** Supports power detection for PD devices, compatible with non-PoE devices for data connection. No software or configuration is required. Supports automatic MDI/MDIX and non-blocking data forwarding.

3. Package Contents

Verify that all items are present and in good condition. If any item is missing or damaged, please contact your vendor.

- NICGIGA 5-Port Gigabit Outdoor Waterproof PoE Switch (Model: NOS-GS0410P)
- Installation Mount x 1
- Plastic Expansion Tube x 4
- Screws x 4
- Cable Tie x 3
- Quick Start Guide

4. Safety Information

- Ensure the power source meets the device's voltage requirements.
- Do not open the device casing; refer all servicing to qualified personnel.
- Protect the device from strong impacts and vibrations.
- Ensure proper grounding to prevent electrical hazards, especially in outdoor installations.
- Keep cables organized to prevent tripping hazards and damage.

5. Setup

5.1 Physical Installation

The switch supports both wall-mounting and pole-mounting. Choose the appropriate method for your outdoor environment.

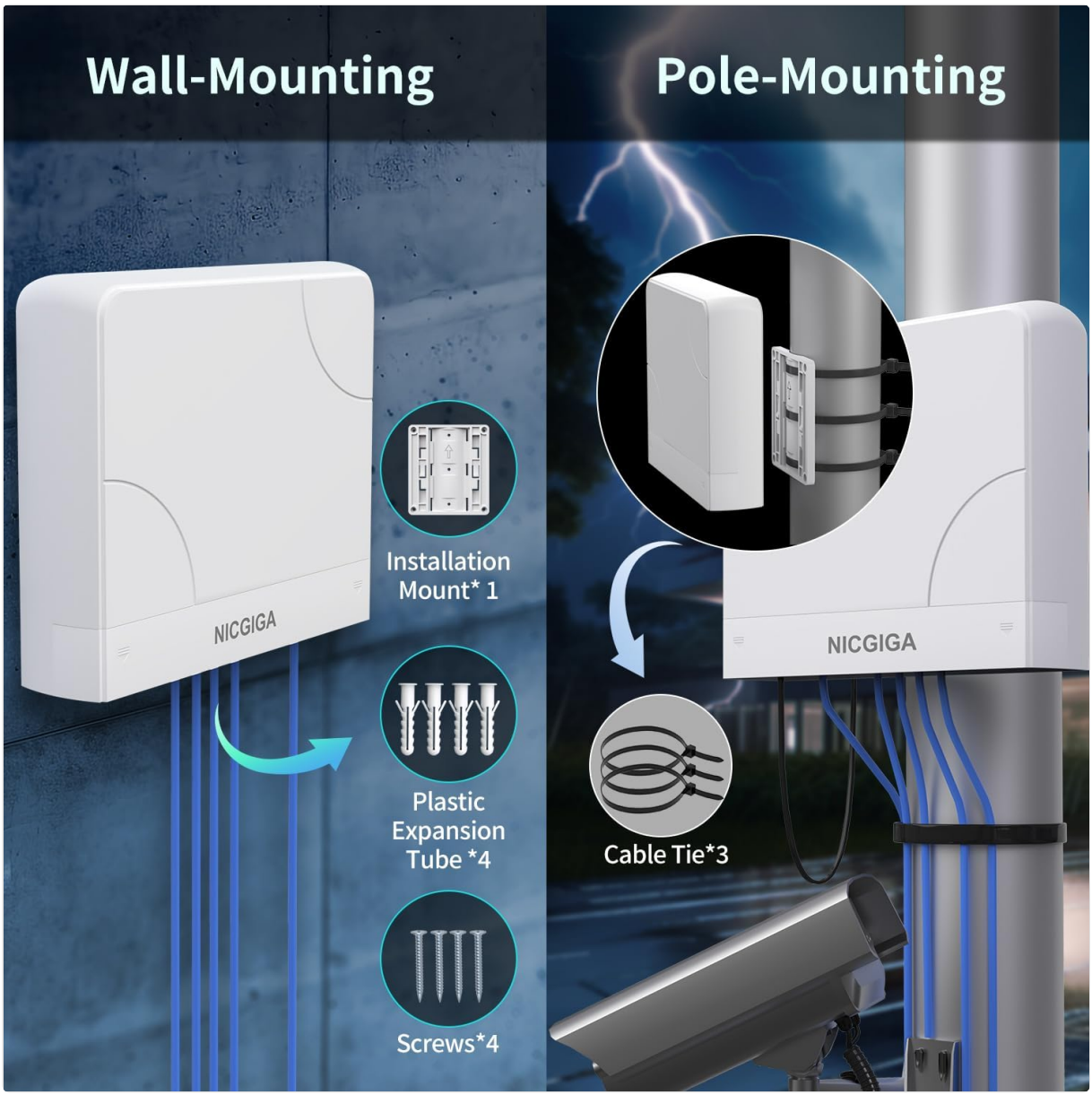

Figure 1: Wall-Mounting and Pole-Mounting Options

Wall-Mounting Steps:

1. Apply the positioning stickers to the desired wall location.
2. Drill holes and insert the plastic expansion tubes.
3. Fix the mount with screws.

4. Align the switch with the mount and snap it into place.

Pole-Mounting Steps:

1. Insert the three cable ties through the designated holes on the mount.
2. Tie the three straps securely to the pole.
3. Snap the switch onto the mount.

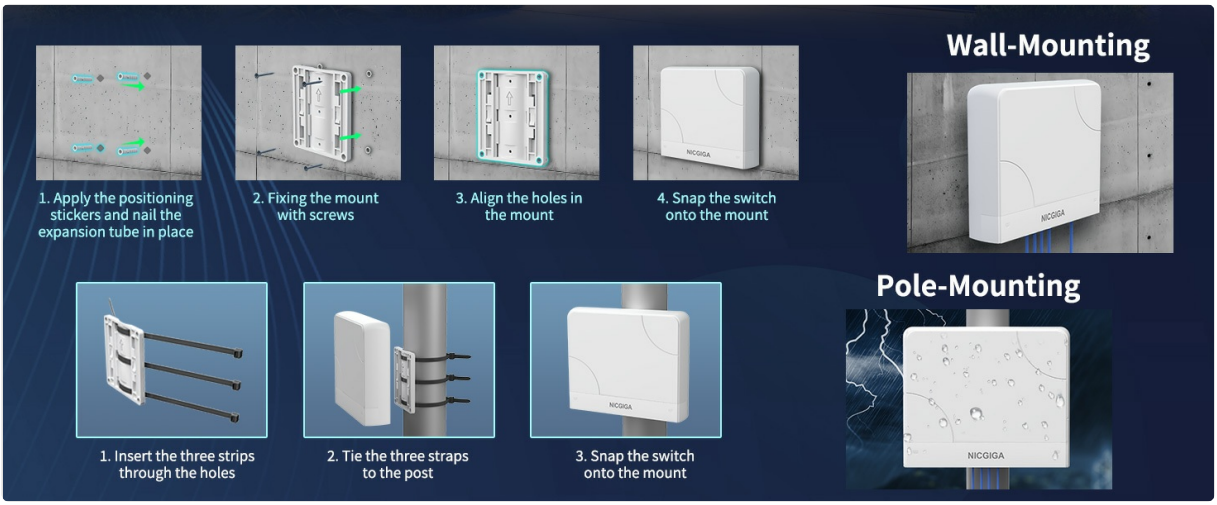

Figure 2: Detailed Mounting Instructions

5.2 Network Connection

The NICGIGA PoE switch is designed for plug-and-play operation, requiring no complex software configuration.

Figure 3: Plug and Play Connection Diagram

1. Connect your router or network backbone to the**Gigabit Uplink Port** (Port 5) on the switch.
2. Connect your PoE-powered devices (e.g., IP cameras, IP phones, wireless APs) to the**PoE Ports 1-4**.
3. Non-PoE devices (e.g., computers, routers, other switches) can also be connected to PoE Ports 1-4 for data transmission, as the switch automatically detects and provides power only to PoE-compatible devices.
4. Ensure the power cable is securely connected to a weather-protected power outlet.

Video 1: Intellinet Network Solutions - Outdoor Weatherproof 5 Port Switch with PoE Passthrough. This video demonstrates the physical setup and connection of a similar outdoor PoE switch.

Video 2: CENTROPOWER 5 Port Outdoor PoE Switch/Extender/Booster. This video provides a visual guide to connecting devices and mounting the outdoor PoE switch.

6. Operating Instructions

6.1 Powering On

Once all connections are made and the power cable is plugged into an appropriate outlet, the switch will power on automatically. The Power indicator LED will illuminate.

6.2 LED Indicators

- **Power LED:** Indicates the power status of the switch.
- **VLAN LED:** Indicates whether the VLAN function is active.
- **Link/Act LEDs (per port):** Indicates network link status and activity for each port.

6.3 VLAN Function

The switch features a 'One Key VLAN' function. When enabled, this function isolates PoE ports 1-4 from each other, preventing direct communication between devices connected to these ports. However, all devices on ports 1-4 can still communicate with the uplink port (Port 5). This improves network security by segmenting traffic.

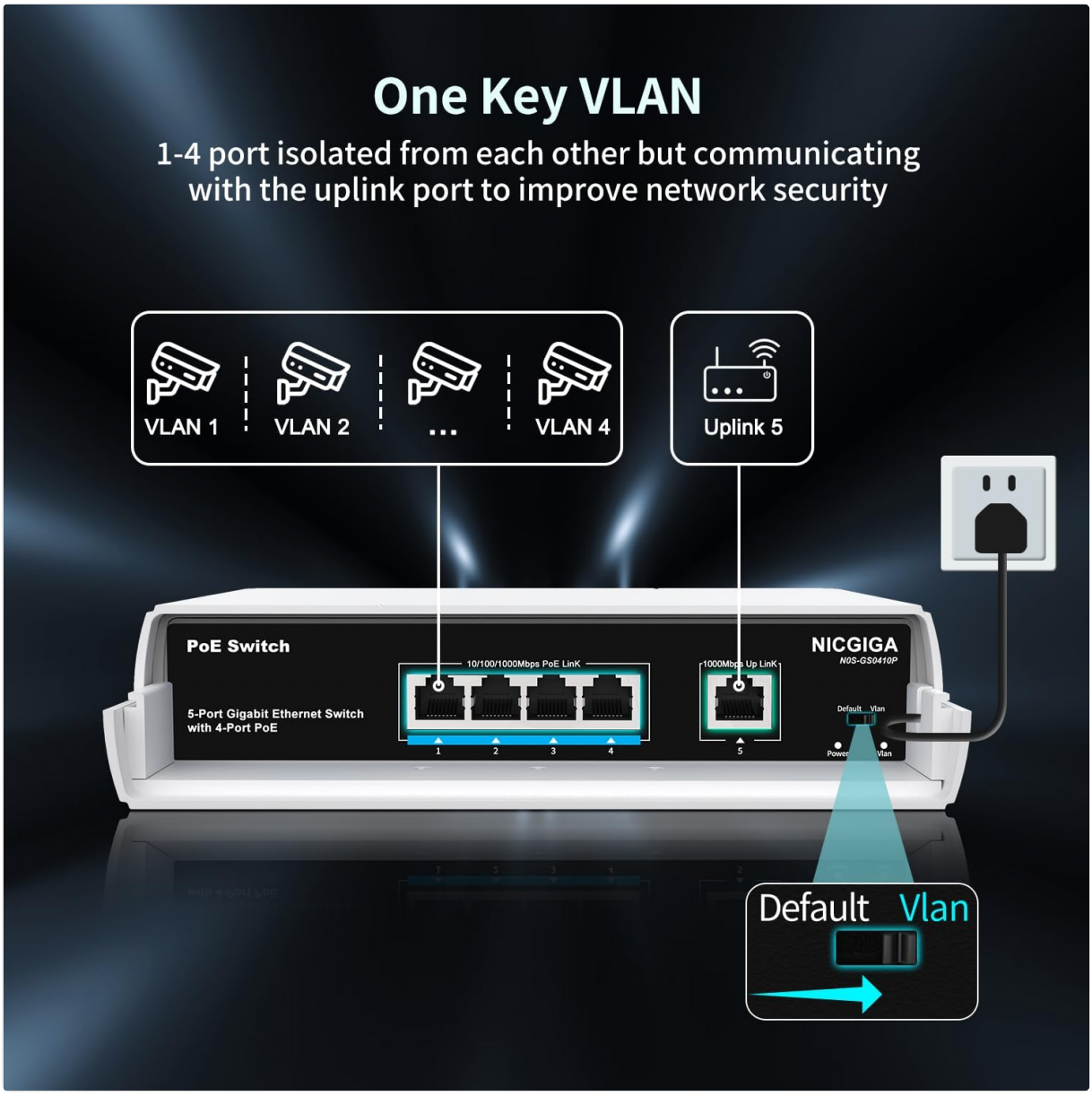

Figure 4: One Key VLAN Functionality

To enable or disable the VLAN function, refer to the physical switch on the device, typically labeled 'Default/VLAN'.

7. Maintenance

- **Regular Inspection:** Periodically check the device and cable connections for any signs of damage or wear, especially in harsh outdoor conditions.
- **Cleaning:** Gently wipe the exterior of the switch with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** As an unmanaged switch, firmware updates are typically not required. If any specific updates are released, they will be communicated by the manufacturer.
- **Environmental Protection:** While waterproof, ensure the device is installed in a location that minimizes direct exposure to extreme weather conditions to prolong its lifespan.

8. Troubleshooting

Problem	Possible Cause	Solution
No Power LED indication	No power supply; faulty power cable/adapter.	Check power connection and outlet. Ensure the power cable is not damaged.
Device connected to PoE port is not powering on	Device is not PoE compatible; cable issue; total power budget exceeded.	Verify device PoE compatibility (IEEE 802.3af/at). Check Ethernet cable for damage. Ensure total power consumption does not exceed 78W.
No network activity (Link/Act LED off)	Faulty Ethernet cable; incorrect port connection; device issue.	Replace Ethernet cable. Ensure correct port usage (uplink to router, PoE ports to devices). Check the connected device's status.
Devices on ports 1-4 cannot communicate with each other	VLAN function is enabled.	Disable the VLAN function if direct communication between ports 1-4 is desired.

9. Specifications

Feature	Detail
Model Number	NOS-GS0410P
Ports	4x 10/100/1000 Mbps PoE+, 1x 1000Mbps Uplink
PoE Standard	IEEE 802.3af/at
Max Power Per PoE Port	30W
Total PoE Power Budget	78W
Data Transfer Rate	5 Gigabits Per Second (Total)
Protection Grade	IP65 (Waterproof, Dustproof)
Lightning Protection	4KV
Operating Temperature	-10°C to +55°C (14°F to 131°F)

Feature	Detail
Case Material	Metal
Voltage	48 Volts (DC)
Dimensions	9.37 x 7.64 x 2.83 inches
Item Weight	1.96 pounds
UPC	790885826252

10. Warranty and Support

Every NICGIGA PoE switch undergoes rigorous testing for reliability, quality, and performance. We provide a one-year warranty for the product and lifetime technical support.
For technical assistance or warranty claims, please contact NICGIGA customer support through the official website or your purchase platform.