

## NICGIGA GS1620P

# NICGIGA 18 Port Gigabit PoE+ Switch (Model GS1620P) User Manual

Model: GS1620P

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your NICGIGA 18 Port Gigabit PoE+ Switch, Model GS1620P. This unmanaged switch features 16 Power over Ethernet (PoE+) ports and 2 Gigabit uplink ports, designed for reliable network connectivity and power delivery to compatible devices.

## 2. PACKAGE CONTENTS

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Before proceeding with installation, please verify that all items are present in the package:

- NICGIGA GS1620P PoE Switch
- Power Adapter
- Rack Mount Kit (2 brackets)
- Pack of Screws
- Quick Start Guide



## Packing List

- GS1620P(PoE Switch)
- Packaging Box \*1
- Power Adapter \*1
- Rack Mount Kit \*2
- Pack of Screws
- Quick Start Guide

Figure 2.1: Package Contents for the NICGIGA GS1620P Switch.

### 3. SETUP AND INSTALLATION

The NICGIGA 18 Port Gigabit PoE+ Switch is designed for easy plug-and-play setup. No software configuration is required for basic operation.

#### 3.1 Connecting the Switch

1. **Connect to Power:** Plug the provided power adapter into the switch's power input port and then into a standard AC power outlet (110-240V). The power LED on the switch will illuminate.
2. **Connect Devices:**
  - For PoE-compatible devices (e.g., IP cameras, IP phones, wireless access points), connect them to ports 1-16 using standard Ethernet cables. The switch will automatically detect and supply power to these devices.
  - For non-PoE devices (e.g., routers, NVRs, printers, laptops), connect them to any available port (1-18) using standard Ethernet cables for data connectivity.
  - Use ports 17 and 18 as uplink ports to connect to your router, NVR, or other network backbone devices for high-speed data transfer.

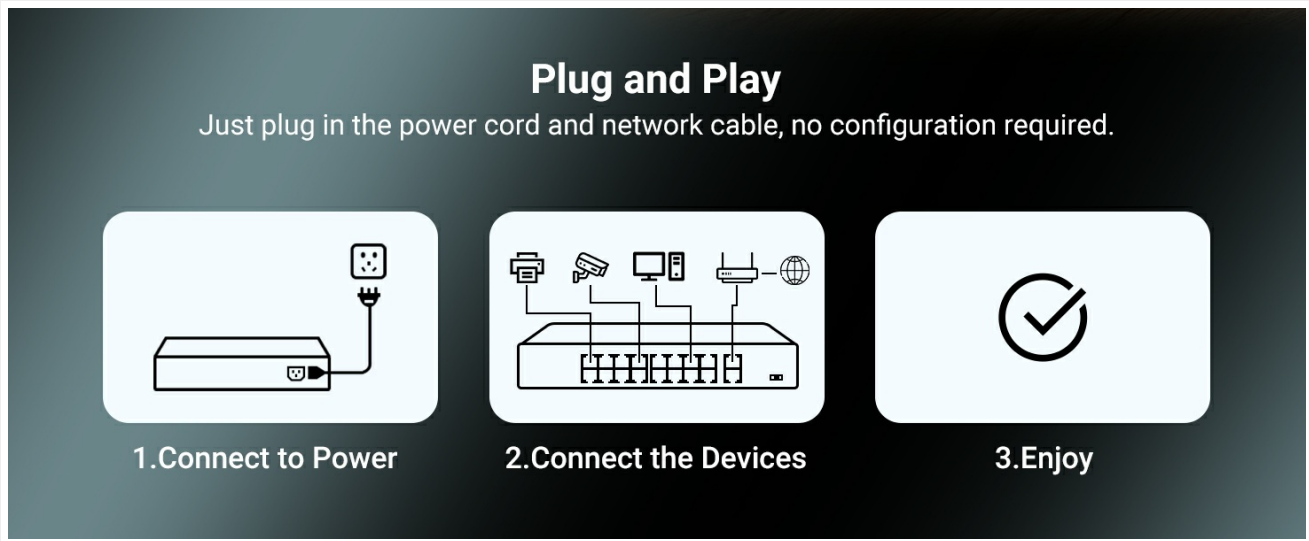


Figure 3.1: Basic Plug and Play Setup Steps.

## Power over Ethernet

Automatically Detect and Supply Power with Those IEEE 802.3af/at Compliant Powered Devices(PDs).



Figure 3.2: Power over Ethernet (PoE) Connection Example.

### 3.2 Rack Mounting

The switch can be installed on a desktop or mounted in a standard 19-inch server rack using the included rack mount kit.

1. Attach the two rack mount brackets to the sides of the switch using the provided screws.
2. Secure the switch with the attached brackets into your 19-inch server rack using appropriate rack screws (not included).



Figure 3.3: Rack Mounting the Switch.

## 4. OPERATING INSTRUCTIONS

### 4.1 Power over Ethernet (PoE) Functionality

The switch supports IEEE 802.3af/at standards, automatically detecting and providing power to compatible Powered Devices (PDs) connected to ports 1-16. Each PoE port can deliver up to 30W, with a total power budget of 250W for all PoE ports.

### 4.2 VLAN Mode

The NICGIGA GS1620P switch includes a One-Key VLAN mode. When activated, this mode isolates ports 1-16

from each other, preventing direct communication between devices connected to these ports. However, all ports (1-16) can still communicate with the uplink ports (17-18). This feature enhances network security and optimizes bandwidth utilization by segmenting traffic.

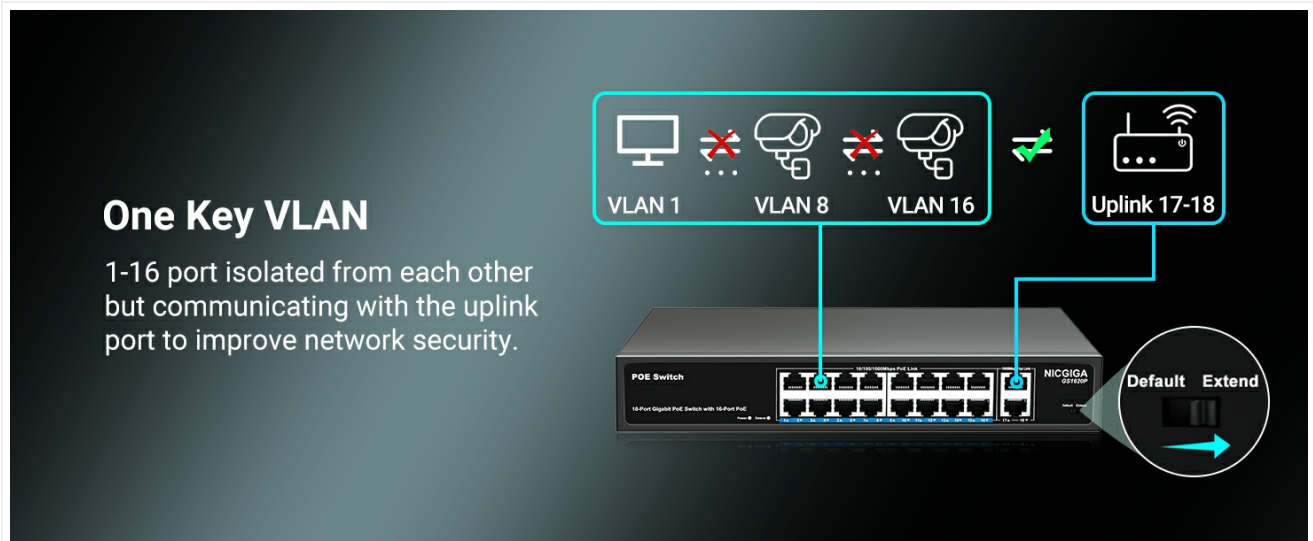


Figure 4.1: VLAN Port Isolation Feature.

### 4.3 LED Indicators

The front panel LEDs provide status information for the switch and its ports:

- **Power LED:** Indicates the power status of the switch.
- **Link/Act LEDs (per port):** Indicates a network link and data activity on the respective port.
- **PoE LEDs (per PoE port):** Indicates PoE power delivery status.

## 5. MAINTENANCE

To ensure optimal performance and longevity of your NICGIGA PoE+ Switch, follow these maintenance guidelines:

- **Ventilation:** Ensure proper airflow around the switch. Do not block ventilation openings.
- **Cleaning:** Regularly clean the exterior of the switch with a soft, dry cloth. Avoid using liquid or aerosol cleaners.
- **Environment:** Operate the switch within its specified temperature and humidity ranges. Avoid exposure to direct sunlight, excessive heat, or moisture.
- **Cable Management:** Keep network cables organized to prevent strain on ports and ensure efficient cooling.

## 6. TROUBLESHOOTING

If you encounter issues with your NICGIGA PoE+ Switch, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power to switch	Power adapter not connected or faulty; power outlet issue.	Ensure power adapter is securely connected to both the switch and a working power outlet. Check the power adapter for damage.
No link/data activity on a port	Faulty Ethernet cable; device not properly connected; device issue.	Verify Ethernet cable connections. Try a different cable. Ensure the connected device is powered on and functioning correctly.

Problem	Possible Cause	Solution
PoE device not receiving power	Device not PoE compatible; cable issue; total power budget exceeded.	Confirm the device is IEEE 802.3af/at compliant. Check the Ethernet cable. Ensure the total power consumption of all PoE devices does not exceed 250W.
Devices on ports 1-16 cannot communicate with each other	VLAN mode is enabled.	If direct communication between these ports is desired, disable VLAN mode using the switch on the front panel.

## 7. SPECIFICATIONS

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Feature	Description
Brand	NICGIGA
Model Number	GS1620P
Number of Ports	18 (16 PoE+, 2 Gigabit Uplink)
PoE Standard	IEEE 802.3af/at
Total PoE Power Budget	250W
Max Power Per PoE Port	30W
Data Transfer Rate	1 Gigabits Per Second
Switch Type	Unmanaged
VLAN Mode	One-Key VLAN (isolates ports 1-16)
Lightning Protection	4KV
Casing Material	Metal
Installation	Desktop or 19-inch Rack Mount
Color	Black

## 8. WARRANTY INFORMATION

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The NICGIGA 18 Port Gigabit PoE+ Switch (Model GS1620P) comes with a **1 Year Warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use. Please retain your proof of purchase for warranty claims.

## 9. SUPPORT

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If you have any questions, require technical assistance, or encounter issues not covered in this manual, please contact NICGIGA customer support. Refer to the contact information provided in your Quick Start Guide or visit the official NICGIGA website for support resources.

