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› [NICGIGA 10-Port PoE+ Switch \(8x 100Mbps PoE+, 2x Gigabit Uplink\) User Manual](#)

### NICGIGA 10 Port | 8x PoE+ 120W + 2x UPLink

## NICGIGA 10-Port PoE+ Switch User Manual

Model: 10 Port | 8x PoE+ 120W + 2x UPLink (FS0820GP)

### 1. INTRODUCTION

This manual provides instructions for the NICGIGA 10-Port PoE+ Switch, an unmanaged network switch designed to provide Power over Ethernet (PoE) capabilities. It features 8 10/100Mbps PoE+ ports and 2 Gigabit uplink ports, supporting IEEE 802.3af/at standards. This device is suitable for extending network connectivity and powering compatible devices such as IP cameras, IP phones, and wireless access points.



Figure 1: The NICGIGA 10-Port PoE+ Switch, model FS0820GP, shown with its retail packaging. The switch features 8 PoE ports and 2 uplink ports.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- **10 Ports Total:** 8x 10/100Mbps PoE+ ports and 2x Gigabit uplink ports.
- **PoE+ Power Budget:** Maximum 120W total, up to 30W per PoE port, compliant with IEEE 802.3af/at.
- **Unmanaged Plug-and-Play:** No configuration required for basic operation.
- **VLAN Isolation:** Ports 1-8 can be isolated to reduce network traffic and enhance security.
- **250m Extend Mode:** Allows PoE transmission up to 250 meters at 10Mbps speed.
- **Durable Design:** Metal casing with 4KV lightning protection and fanless operation for silent performance.
- **Mounting Options:** Supports desktop, wall, or 19-inch rack installation.

### 2.2 Port Layout and Indicators

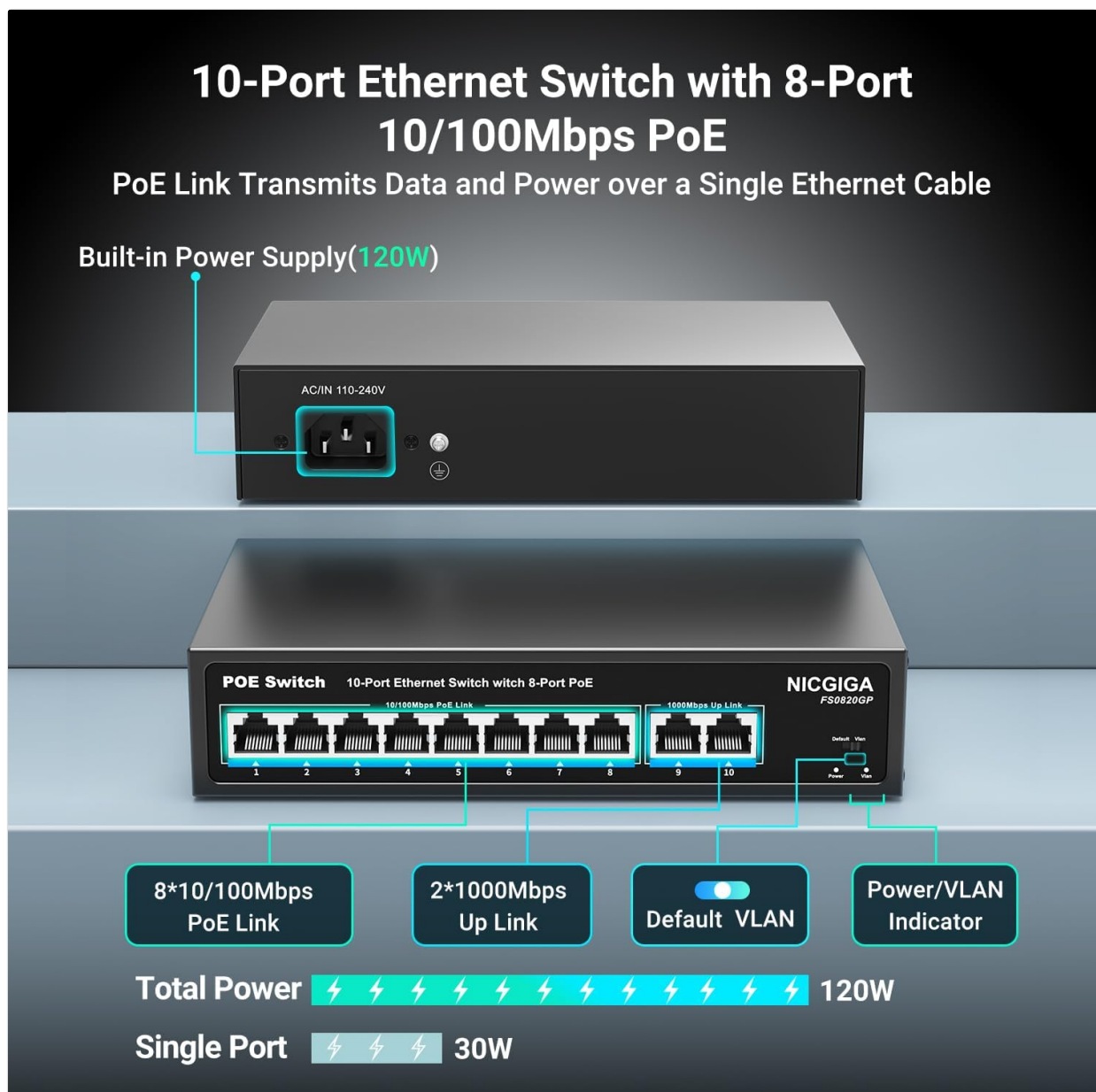


Figure 2: Detailed view of the NICGIGA 10-Port PoE+ Switch, highlighting the 8x 10/100Mbps PoE ports, 2x 1000Mbps uplink ports, power input, and VLAN/Extend mode switch.

The front panel includes 8 PoE ports (1-8) and 2 uplink ports (9-10). Each port has LED indicators for link/activity and PoE status. A switch on the front panel allows toggling between Default (VLAN Off) and

VLAN (VLAN On/Extend) modes.

## 2.3 Package Contents

- NICGIGA 10-Port PoE+ Switch (Model FS0820GP)
- Power Adapter
- Rack Mount Kit (2 pieces)
- Pack of Screws
- Quick Start Guide



Figure 3: Illustration of the items included in the product package.

## 3. SETUP

The NICGIGA PoE+ Switch is designed for simple plug-and-play operation, requiring no software configuration.

1. **Connect to Power:** Connect the included power adapter to the switch's power input and then to a power outlet. The power indicator LED on the switch will illuminate.
2. **Connect Network Devices:**
  - Connect PoE-compatible devices (e.g., IP cameras, IP phones, wireless APs) to ports 1-8 using standard Ethernet cables. The switch will automatically detect and provide power to these devices.
  - Connect non-PoE network devices (e.g., routers, NVRs, PCs) to the uplink ports 9-10 for network connectivity.
3. **Verify Connection:** Check the LED indicators for each connected port. A solid green or amber light typically indicates a successful link, and a blinking light indicates data activity.

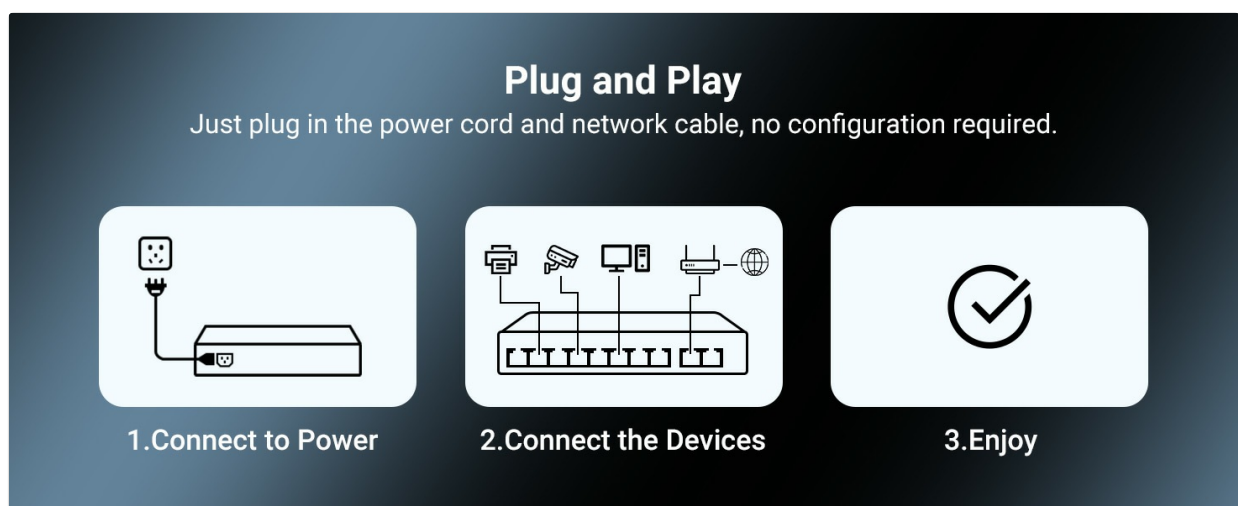


Figure 4: Simple three-step plug-and-play setup: Connect to Power, Connect Devices, and Enjoy.



### 3.1 Mounting Options

The switch can be placed on a desktop, mounted on a wall, or installed in a 19-inch rack using the provided rack mount kit.

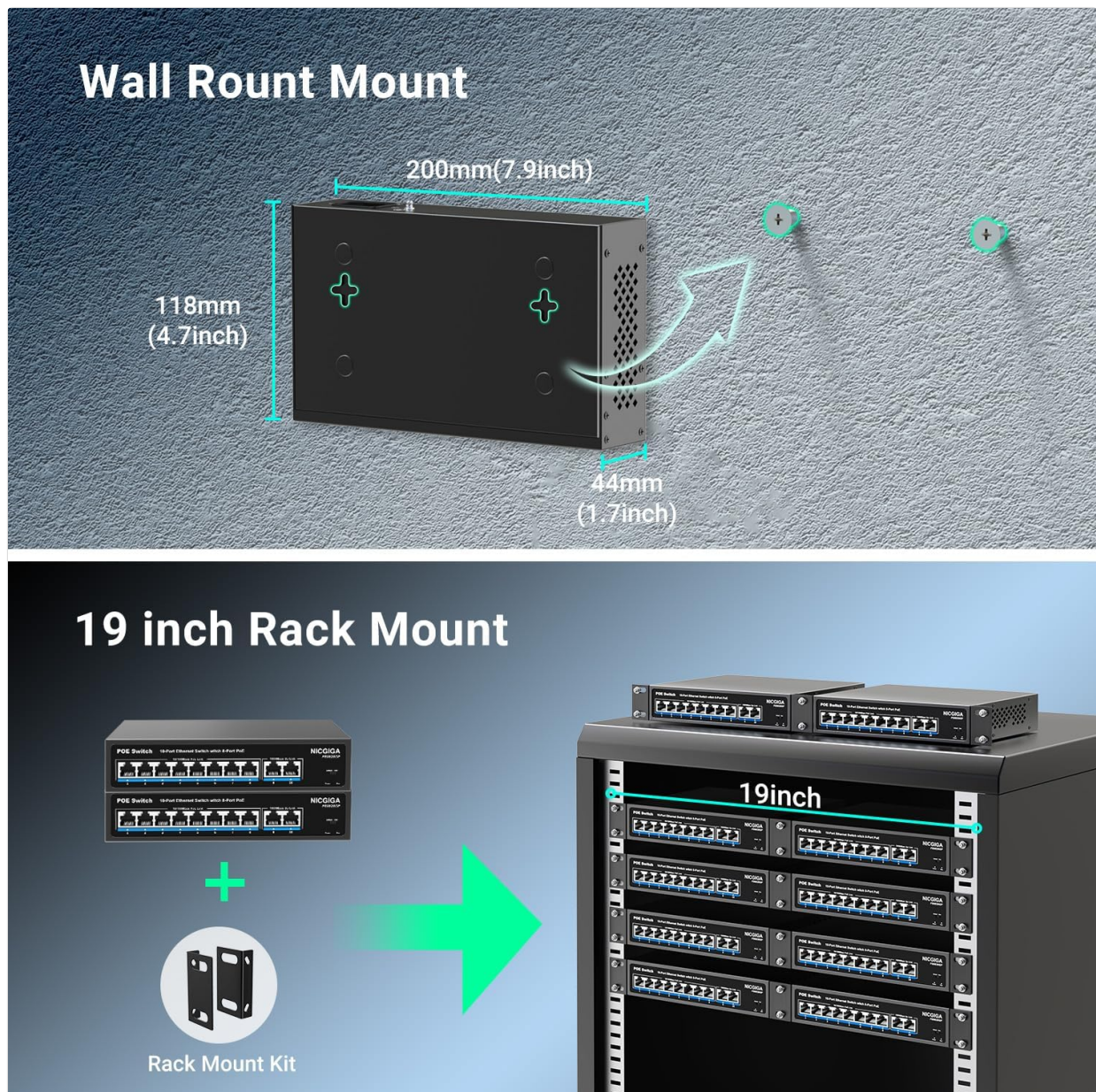


Figure 5: Wall mounting dimensions (200mm x 118mm x 44mm) and an example of 19-inch rack mounting with multiple switches.

## 4. OPERATING MODES

The switch features a mode switch on the front panel to select between Default and VLAN/Extend modes.

### 4.1 VLAN Isolation Mode

When the VLAN switch is enabled, ports 1-8 are isolated from each other. This means devices connected to these ports cannot directly communicate with each other. All communication from ports 1-8 is routed through the uplink ports (9-10). This feature helps to reduce network broadcast storms, improve network security, and optimize performance for specific applications like surveillance systems.

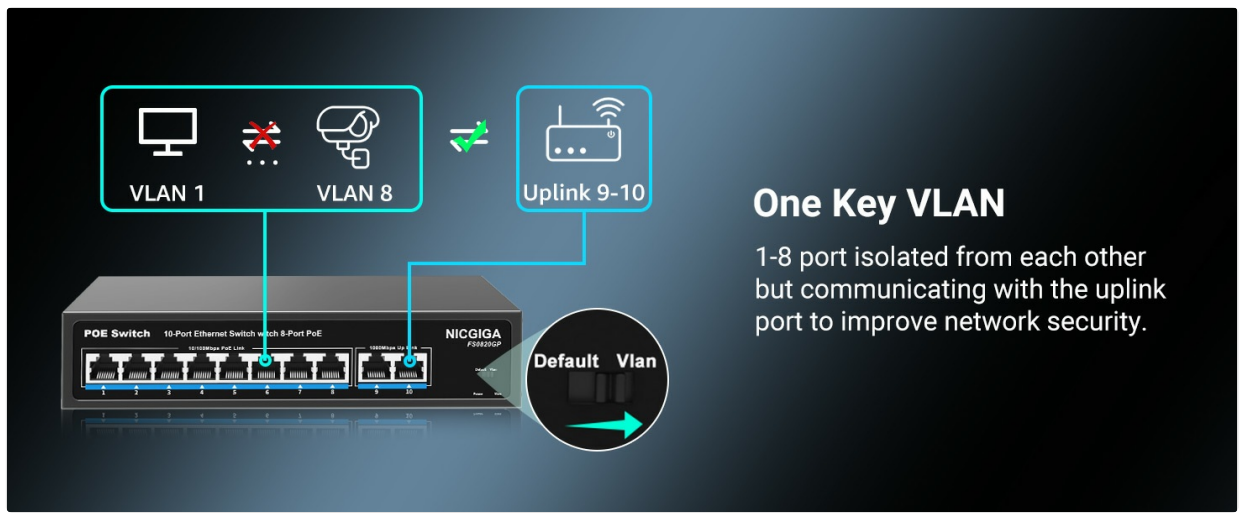


Figure 6: Illustration of VLAN isolation where ports 1-8 are isolated from each other but communicate with uplink ports 9-10.

## 4.2 Extend Mode

The Extend Mode is typically activated when VLAN mode is enabled. In this mode, the transmission distance for PoE ports (1-8) is extended up to 250 meters (820 feet) at a reduced speed of 10Mbps. This is beneficial for deploying devices in remote locations where standard 100-meter Ethernet cable limits are insufficient.

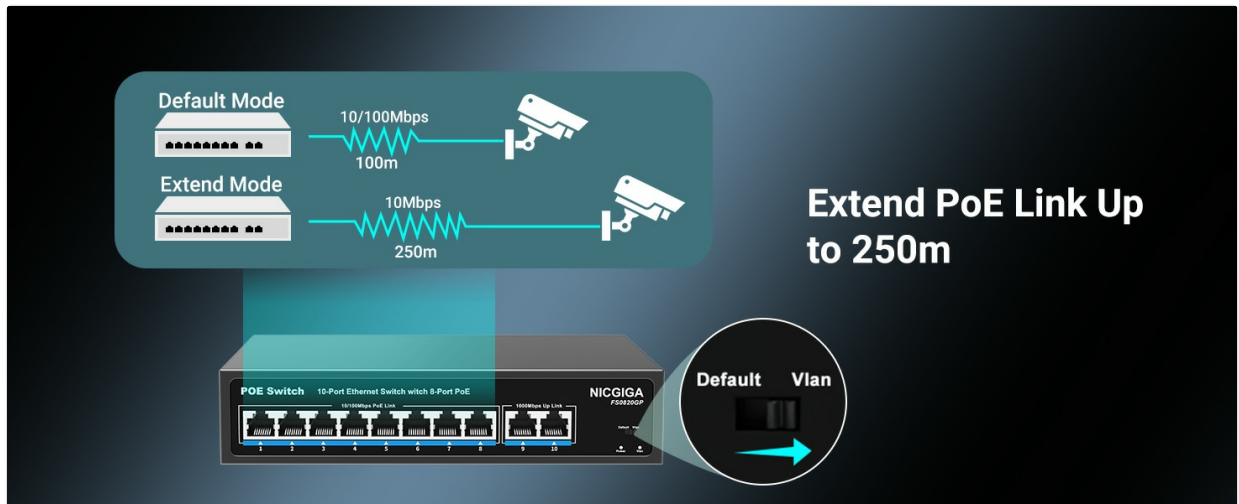


Figure 7: Comparison of Default Mode (10/100Mbps, 100m) and Extend Mode (10Mbps, 250m) for PoE links.

## 5. SPECIFICATIONS

Feature	Specification
Model Number	FS0820GP (10 Port   8x PoE+ 120W + 2x UPLink)
Number of Ports	10 (8x 10/100Mbps PoE+, 2x Gigabit Uplink)
PoE Standard	IEEE 802.3af/at
Total PoE Power Budget	120W
Max Power Per PoE Port	30W
Data Transfer Rate	10/100Mbps for PoE ports, 1000Mbps for Uplink ports
Switching Capacity	12Gbps
Interface Type	RJ45

Feature	Specification
Case Material	Metal
Cooling	Fanless Design
Lightning Protection	4KV
Dimensions (L x W x H)	Approximately 9.33 x 7.68 x 2.87 inches (Package)
Item Weight	2.13 pounds
UPC	790885826214

## 6. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to the switch and a working power outlet. Check the power indicator LED.
- **No Link/Activity:** Verify that Ethernet cables are properly connected to both the switch and the network device. Try a different cable or port. Ensure the connected device is powered on.
- **PoE Device Not Powering On:** Confirm the device is PoE-compatible (IEEE 802.3af/at). Check the PoE status LED for the port. Ensure the total power consumption of all connected PoE devices does not exceed the 120W budget.
- **Slow Network Speed in Extend Mode:** This is expected behavior. In Extend Mode, the data rate is reduced to 10Mbps to achieve longer transmission distances (up to 250m).
- **Network Isolation Issues:** If devices on ports 1-8 cannot communicate with each other, verify if VLAN mode is enabled. This is the intended behavior for VLAN isolation.


## 7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure adequate airflow around the switch. Although it has a fanless design, proper ventilation helps with heat dissipation.
- **Environment:** Operate the switch within its specified temperature and humidity ranges to ensure optimal performance and longevity.
- **Firmware:** As an unmanaged switch, firmware updates are generally not required or available.

## 8. WARRANTY AND SUPPORT

Each NICGIGA PoE switch undergoes rigorous testing for reliability, quality, and performance. For any questions or technical assistance during use, please contact NICGIGA customer support.

**Related Documents - 10 Port | 8x PoE+ 120W + 2x UPLink**

<div><div>NICGIGA</div><div><div>PoE Switch</div><div>User Manual</div></div><div>ENDEFINITIES</div></div> <div><div>Standard User Manual for PoE Switches</div><div>Standard User Manual for PoE Switches</div><div>Standard User Manual for PoE Switches</div></div>	<div><div><a href="#">NICGIGA PoE Switch User Manual V4.0 - Technical Specifications and Features</a></div><div>User manual for NICGIGA PoE Switches (V4.0), detailing application scenarios, front panel explanations, and comprehensive technical specifications for models including GS0410P, FS0820GP, GS0800P, AI-FS1621GP, GS1620P, FS2420GP, NIC-S25-0402P, and NIC-S25-0801P.</div></div>
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