

Grandstream GWN7801P

Grandstream GWN7801P 8-Port Gigabit Ethernet Layer 2+ Managed PoE Switch

Model: GWN7801P

Brand: Grandstream

1. INTRODUCTION

The Grandstream GWN7801P is an 8-Port Gigabit Ethernet Layer 2+ Managed PoE Switch, part of the GWN7800 Series. This series offers robust networking solutions for various environments, from small offices to multi-national enterprises. The GWN7801P model provides 8 Gigabit Ethernet ports with Power over Ethernet (PoE) capabilities, allowing for seamless integration and power delivery to network endpoints such as IP cameras, VoIP phones, and wireless access points. It supports advanced features like built-in Quality of Service (QoS) for traffic prioritization and compatibility with both IPv4 and IPv6 environments. The switch is designed for performance, security, and manageability, offering free cloud, software, or embedded management options.

Key Features:

- 8 Gigabit Ethernet ports with PoE support.
- 2 Gigabit SFP ports for fiber connectivity.
- Layer 2+ managed capabilities.
- 120W PoE power budget.
- Built-in QoS for traffic prioritization.
- Supports IPv4 and IPv6 environments.
- Flexible management options: cloud, software, or embedded.

2. PRODUCT OVERVIEW



Image 1: Front view of the Grandstream GWN7801P PoE Switch, showing 8 Gigabit Ethernet ports, 2 SFP ports, and status LEDs.



Image 2: Angled view of the Grandstream GWN7801P PoE Switch, highlighting its compact design and port layout.



Image 3: Rear view of the Grandstream GWN7801P PoE Switch, showing the 100-240VAC power input.



Image 4: Close-up of the rear power input (100-240VAC, 50/60Hz) on the Grandstream GWN7801P PoE Switch.

3. SETUP

3.1. Unboxing and Initial Inspection

Carefully remove the GWN7801P switch and its accessories from the packaging. Verify that all components are present: the switch unit, power cord, and any included mounting hardware or documentation. Inspect the

device for any signs of physical damage.

3.2. Connecting Power

1. Connect one end of the provided power cord to the AC power input on the rear panel of the GWN7801P switch.
2. Plug the other end of the power cord into a standard electrical outlet (100-240VAC, 50/60Hz).
3. The power LED on the front panel will illuminate, indicating that the switch is receiving power and initiating its startup sequence.

3.3. Connecting Network Devices

1. Connect your router or upstream network device to any of the 8 Gigabit Ethernet ports (1-8) on the front panel using a standard Ethernet cable.
2. Connect your PoE-enabled devices (e.g., IP cameras, VoIP phones, wireless access points) to the remaining Gigabit Ethernet ports. The switch will automatically detect and provide power to these devices.
3. For high-speed fiber connections, insert compatible SFP modules into the 2 Gigabit SFP ports and connect appropriate fiber optic cables.

Video: This product overview video demonstrates the physical aspects of the switch, including its ports and power connection, providing a visual guide for initial setup.

4. OPERATING THE SWITCH

The Grandstream GWN7801P is a Layer 2+ managed switch, offering advanced control over your network. Once powered on and connected, the switch operates automatically for basic connectivity. For advanced configurations, you can access its management interface.

4.1. Management Access

The GWN7801P supports various management options:

- **Embedded Web Interface:** Access the switch's web-based management interface by entering its IP address into a web browser. The default IP address can typically be found in the quick installation guide or discovered using network scanning tools.
- **Cloud Management:** Utilize Grandstream's cloud management platform for centralized control and monitoring of multiple GWN7800 series switches.
- **Software Management:** Use dedicated software tools provided by Grandstream for local network management.

4.2. Key Operational Features

- **PoE (Power over Ethernet):** The switch automatically detects and supplies power to compatible PoE devices connected to its Gigabit Ethernet ports, simplifying deployment by eliminating the need for separate power adapters.
- **Layer 2+ Features:** Supports advanced Layer 2 features such as VLANs (Virtual Local Area Networks) for network segmentation, Link Aggregation (LAG) for increased bandwidth, and Spanning Tree Protocol (STP) for loop prevention. Layer 3 static routing is also supported.
- **Quality of Service (QoS):** Prioritizes network traffic to ensure optimal performance for critical applications like voice and video.

- **IPv4/IPv6 Support:** Fully compatible with both current and next-generation internet protocols.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your GWN7801P switch.

- **Physical Inspection:** Periodically check the switch for dust accumulation, especially around ventilation areas. Ensure all cables are securely connected.
- **Firmware Updates:** Regularly check the Grandstream website for the latest firmware updates. Keeping the firmware up-to-date ensures access to new features, performance improvements, and security patches.
- **Environmental Conditions:** Ensure the switch is operated within its specified temperature and humidity ranges. Avoid placing it in direct sunlight or near heat sources.
- **Backup Configuration:** Regularly back up your switch's configuration settings through the web interface. This allows for quick restoration in case of accidental changes or device replacement.

6. TROUBLESHOOTING

If you encounter issues with your GWN7801P switch, refer to the following troubleshooting steps:

- **No Power:** Verify that the power cord is securely connected to both the switch and the electrical outlet. Check the power LED on the front panel. If it's off, try a different outlet or power cord.
- **No Network Connectivity:** Check the link/activity LEDs for the connected ports. If an LED is off, try reseating the Ethernet cable or using a different cable. Ensure the connected device is powered on and functioning correctly.
- **PoE Device Not Powering On:** Confirm that the connected device is PoE-compatible. Check the PoE status LEDs on the switch. Ensure the total PoE power budget (120W for GWN7801P) is not exceeded by all connected devices.
- **Accessing Web Interface:** If you cannot access the web interface, verify the switch's IP address and ensure your computer is on the same network segment. Try clearing your browser's cache or using a different browser.
- **Performance Issues:** Check for network congestion or excessive traffic. Utilize the switch's QoS features to prioritize critical data. Ensure all cables are of appropriate quality (e.g., Cat5e or Cat6 for Gigabit speeds).
- **Factory Reset:** As a last resort, you can restore the switch to its factory default settings. Refer to the full user manual for instructions on performing a factory reset, as this will erase all custom configurations.

7. SPECIFICATIONS

Feature	Specification
Interface Type	PoE
Data Transfer Rate	1000 Megabits Per Second
Manufacturer	Grandstream
Product Dimensions	19.69 x 19.69 x 11.02 inches

Feature	Specification
Item Weight	4.87 pounds
ASIN	B0BXM36NT6
Item model number	GWN7801P
Customer Reviews	5.0 out of 5 stars (11)
Best Sellers Rank	#356 in Computer Networking Switches
Is Discontinued By Manufacturer	No
Date First Available	February 15, 2023
Brand	Grandstream
Number of Ports	8
Color	silver
Compatible Devices	Desktop
Item Weight	4.87 Pounds

8. WARRANTY AND SUPPORT

The Grandstream GWN7801P switch is designed for reliable performance. Based on customer feedback, the product is noted for its solid performance and ease of setup. While specific warranty details are not fully provided in the product specifications, customer reviews indicate a 3-year warranty for some models in the series.

For detailed warranty information, technical support, and access to the latest firmware and documentation, please visit the official Grandstream website or contact their customer support. Complimentary support may be available for a limited period after purchase.