

# GRANDSTREAM GWN7806 Enterprise Layer 2 Plus Managed Network Switch Installation Guide

## GWN7806-GWN7806P

### Enterprise Layer 2-F Managed Network Switch Quick Installation Guide

**OVERVIEW** The GWN7806(P) is layer 2+ managed switch that allows small-to-medium enterprises to build scalable, secure, high performance and smart business networks that are fully manageable. It supports advanced VLAN for flexible and sophisticated traffic segmentation, advanced QoS for prioritization of network traffic, IGMP/MLD Snooping for network performance optimization, and comprehensive security capabilities against potential attacks. The GWN7806P provides smart dynamic PoE output to power IP phones, IP cameras, Wi-Fi access points and other PoE endpoints. GWN7806(P) is easy to deploy and manage, including managed by the local Web user interface of the GWN7806(P) switch and CLI, the command-line interface. The switch is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform. The GWN7806(P) is the best value enterprise-grade managed network switch for small-to-medium businesses.

**PRECAUTIONS**

- Do not attempt to open, disassemble, or modify the device.
- Do not expose this device to temperature outside range of 0 °C to 45 °C for operation and -10 °C to 60 °C for storage.
- Do not expose this device to environments outside of the following humidity range: 10-90% RH (non-condensing) for operation and 10-90% RH (non-condensing) for storage.
- Do not power cycle your GWN7806(P) during system boot up or firmware upgrade. You may corrupt firmware images and cause the unit to malfunction.

### PACKAGE CONTENTS

1x GWN7806(P) Switch

4x Rubber Footpads

1x 25cm Ground Cable

1x Quick Installation Guide

1x 1.2m (10A) AC Cable 1x Power Cord Anti-Trip 2x Rack Mounting Kits 8x Screws (KM 3\*6)

### PORTS & LED INDICATORS Front Panel Back Panel Side Panel

No. Port & LED Description 1 Port 1-48 48x Ethernet RJ45(10/100/1000Mbps), used for connecting terminals

Note: GWN7806P Ethernet ports support PoE/PoE+ 2 1-48 Ethernet ports' LED indicators 3 Port SFP+ 49-54 6x 10Gbps SFP+ ports 4 SFP+ 49-54 SFP+ ports' LED indicators 5 Console 1x Console port, used to connect a PC directly to the switch and manage it. 6 RST Factory Reset pinhole Press for 5 seconds to reset factory default settings 7 SYS System LED indicator 8 ITp Power cord anti-trip hole 9 100-240VAC 50-60Hz Power socket 10 0 Grounding terminal 11 Fan 3x Fans

### LED Indicator

**LED Indicator Status . Description .**

System Indicator	Off	Power off	Solid green	Booting	Flashing green	Upgrade
Solid blue	Normal use	Flashing blue	Provisioning	Solid red	Upgrade failed	Flashing red
Factory reset	Port Indicator	Off	For all ports, port off & For SFP+ ports, port failure	Solid green	Port connected and there is no activity	Flashing green
Port connected and data is transferring	Solid yellow	Ethernet port connected and PoE powered	Flashing yellow	Ethernet port connected, data is transferring and PoE powered	Alternately flashing yellow and green	Ethernet port failure

**POWERING & CONNECTING** Grounding the Switch 1. Remove the ground screw from the back of switch, and connect one end of the ground cable to the wiring terminal of switch.

2. Put the ground screw back into the screw hole, and tighten it with a screwdriver.

3. Connect the other end of the ground cable to other device that has been grounded or directly to the terminal of the ground bar in the equipment room.

### Ground Terminal Ground Cable Ground Bar

**Powering on the Switch** Connect the power cable and the switch first, then connect the power cable to the power supply system of the equipment room. **Connecting Power Cord Anti-Trip** In order to protect the power supply from accidental disconnection, it's recommended to use a power cord anti-trip for installation.

1. Force the head of the fixing strap tightly into the hole next to the power socket until it's buckled on the shell without falling off.

2. After plugging the power cord into the power outlet, slide the protector over the remaining strap until it slides

over the end of the power cord.

3. Wrap the strap of the protective cord around the power cord and lock it tightly. Fasten the straps until the power cord is securely fastened.

**PORT CONNECTING** Connect to RJ45 Port 1. Connect one end of the network cable to the switch, and the other end to the peer device. 2. After powered on, check the status of the port indicator. If on, it means that the link is connected normally; if off, it means the link is disconnected, please check the cable and the peer device whether is enabled.

**RJ45 port Crystal head Ethernet RJ45**

**Connect to SFP+ Port** The installation process of the fiber module is as follows: 1. Grasp the fiber module from the side and insert it smoothly along the switch SFP+ port slot until the module is in close contact with the switch. 2. When connecting, pay attention to confirm the Rx and Tx ports of SFP+ fiber module. Insert one end of the fiber into the Rx and Tx ports correspondingly, and connect the other end to another device.

3. After powered on, check the status of the port indicator. If on, it means that the link is connected normally; if off, it means the link is disconnected, please check the cable and the peer device whether is enabled.

**SFP+ Port**

**Fiber module**

**Notes:**

- Please select the optical fiber cable according to the module type. The multi-mode module corresponds to the multi-mode optical fiber, and the single-mode module corresponds to the single-mode optical fiber.

- Please select the same wavelength optical fiber cable for connection. • Please select an appropriate optical module according to the actual networking situation to meet different transmission distance requirements.

- The laser of the first-class laser products is harmful to eyes. Do not look directly at the optical fiber connector.

**Connect to Console Port** 1. Connect the console cable (prepared by yourself) to the DB9 male connector or USB port to the PC. 2. Connect the other end of the RJ45 end of the console cable to the console port of switch.

**Connect to Console Port (DB9) Connect to Console Port (USB) Notes:** • To connect, the steps order (1 -> 2) must be respected. • To disconnect, the steps order is reversed (2 -> 1).

**INSTALLATION** Install on the Desktop 1. Place the bottom of switch on a sufficiently large and stable table. 2.

Peel off the rubber protective paper of the four footpads one by one, and stick them in the corresponding circular grooves at the four corners of the bottom of the case.

3. Flip the switch over and place it smoothly on the table.

**Rubber footpads Circular groove,**

**Install on a 19" Standard Rack**

1 Check the grounding and stability of the rack.

2. Install the two L-shaped rack-mounting in the accessories on both sides of switch, and fix them with the screws provided (KM 3\*6).

3. Place the switch in a proper position in the rack and support it by the bracket.

4. Fix the L-shaped rack-mounting to the guide grooves at both ends of the rack with screws (prepared by yourself) to ensure that the switch is stable and horizontally installed on the rack.

**ACCESS & CONFIGURE** Note: If no DHCP server is available, the GWN7806(P) default IP address is 192.168.0.254.

**Method 1: Login using the Web UI** 1. A PC uses a network cable to correctly connect any RJ45 port of the switch.

2. Set the Ethernet (or local connection) IP address of the PC to 192.168.0.x ("x" is any value between 1-253), and the subnet mask to 255.255.255.0, so that it is in the same network segment with switch IP address. If DHCP is used, this step could be skipped. 3. Type the switch's management IP address [http://<gwn7806\(P\)\\_IP>](http://<gwn7806(P)_IP>) in the browser, and enter username and password to login. (The default administrator username is "admin" and the default random password can be found at the sticker on the GWN7806(P) switch).

**Method 2: Login using the Console port** 1. Use the console cable to connect the console port of switch and the serial port of PC. 2. Open the terminal emulation program of PC (e.g. SecureCRT), enter the default username and password to login. (The default administrator username is "admin" and the default random password can be found at the sticker on the GWN7806(P) switch).

**Method 3: Login Remotely using SSH/Telnet** 1. Turn on the Telnet of the switch.


2. Enter "and" in PC/Start. 3. Enter telnet Vwn7806(P)JP> in the cmd window. 4. Enter the default username and password to login. (The default administrator username is "admin" and the default random password can be found at the sticker on the GWN7806(P) switch).

**Method 4: Configure using GWN.Cloud I GWN Manager** Type <https://www.gwn.cloud> ([https://<gwn\\_manager\\_IP>](https://<gwn_manager_IP>) for GWN Manager) in the browser, and enter the account and password to login the cloud platform. If you don't have an account, please register first or ask the administrator to assign one for you.

The GNU GPL license terms are incorporated into the device firmware and can be accessed via the Web user interface of the device at [my\\_device\\_ip/gpl\\_license](#). It can also be accessed here:

https://www.grandstream.com/legal/open-source-software To obtain a CD with GPL source code information please submit a written request to: info@grandstream.com  
Refer to online documents and FAQ for more detailed information: https://www.grandstream.com/our-products  
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www.grandstream.com  
For Certification, Warranty and RMA information, please visit www.grandstream.com

**Documents / Resources**

	<p><b><a href="#">GRANDSTREAM GWN7806 Enterprise Layer 2 Plus Managed Network Switch</a></b> [pdf] Installation Guide</p> <p>YZZGWN7806, gwn7806, GWN7806, GWN7806P, GWN7806 Enterprise Layer 2 Plus Managed Network Switch, Enterprise Layer 2 Plus Managed Network Switch, Layer 2 Plus Managed Network Switch, Managed Network Switch, Network Switch, Switch</p>
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