



GRANDSTREAM GWN7811 Enterprise Layer 3 Managed Network Switch Installation Guide

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GRANDSTREAM GWN7811 Enterprise Layer 3 Managed Network Switch



OVERVIEW

The GWN7811 is Layer 3 managed network switch that allow medium-to-large 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 GWN7811 is can be managed in a number of ways, including the local Web user interface of the switch and CU, 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 GWN7811 is the best value enterprise-grade managed network switch for medium-to-large businesses.

PRECAUTIONS

- Do not attempt to open, disassemble, or modify the device.
- Do not expose this device to temperatures outside the 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 5-95% RH (non-condensing) for storage.
- Do not power cycle your GWN7811 during system boot-up or firmware upgrade. You may corrupt firmware images and cause the unit to malfunction.

PACKAGE CONTENTS

GWN7811



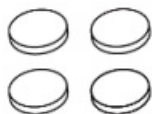
1x Switch



1x 1.2m(10A) AC Cable



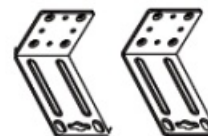
1x 25cm Ground Cable



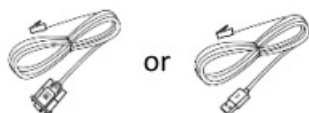
4x Rubber Footpads



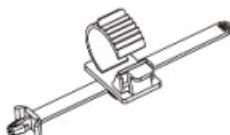
8x Screws(KM 3*6)



2x Extended Rack Mounting Kits



1x Console Cable(Optional)



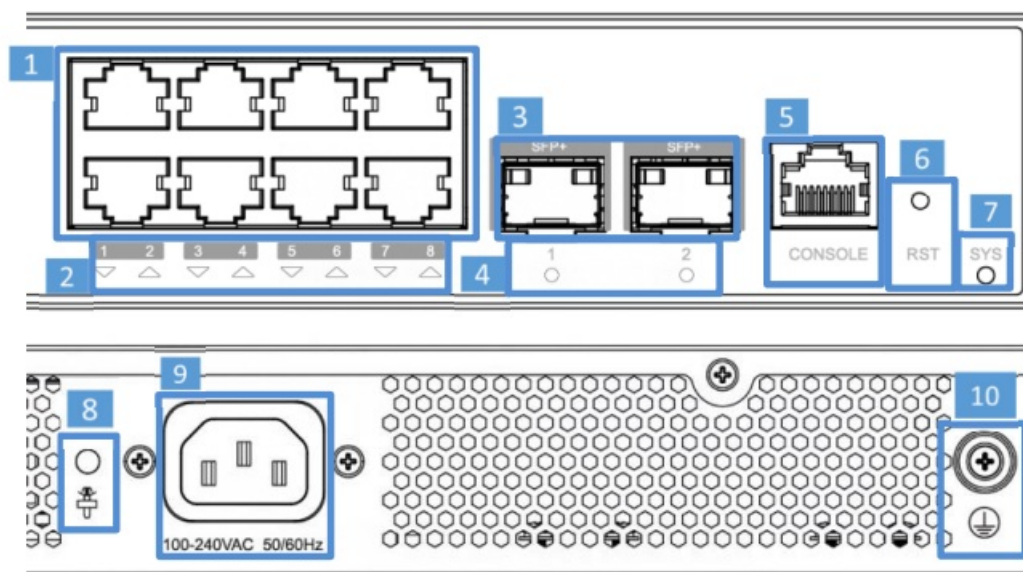
1x Power Cord Anti-Trip





1x Quick Installation Guide

PORTS & LED Indicator

GWN7811



No.	Port&LED	Description
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1	Port 1-8	8x Ethernet RJ45(10/100/1000Mbps), used for connecting terminals
2	1-8	Ethernet ports' LED indicators
3	Port SFP+ 1/2	2x 10Gbps SFP+ ports
4	SFP+ 1/2	SFP+ ports' LED indicators
5	Console	1x Console port, used for connecting managing PC
6	RST	Factory Reset pinhole Press for 5 seconds to reset factory default settings
7	SYS	System LED indicator
8		Power cord anti-trip hole
9	100-240VAC 50-60Hz	Power outlet
10		Lighting protection grounding post

LED Indicator

LED Indicator	Status	Description
System Indicator I	Off	Power off
	Solid green	Booting
	Flashing green	Upgrade
	Solid blue	Normal use
	Flash blue	Provisioning
	Solid red	Upgrade failed

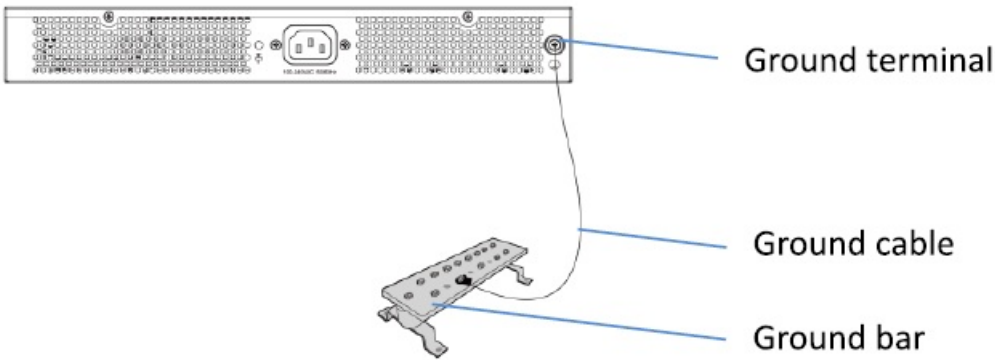
	Flashing red	Factory reset
Port Indicator	Off	For all ports, port off & For SFP+ ports, port failure
	Solid green	Port connected and there is no activity
	Flashing green	Port connected and data is transferring
	Solid yellow	Ethernet port connected and PoE powered
	Flashing yellow	Ethernet port connected, data is tra nsferring and PoE powered

	Alternately flashing yellow and green	Ethernet port failure
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POWERING & CONNECTING

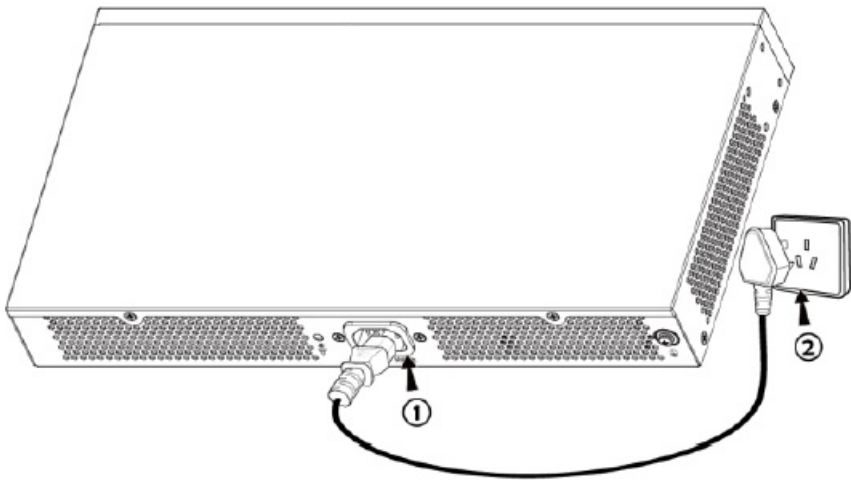
Grounding the Switch

- 1. Remove the ground screw from the back of the switch, and connect one end of the ground cable to the wiring terminal of the 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 another device that has been grounded or directly to the terminal of the ground bar in the equipment room.



Powering on the Switch

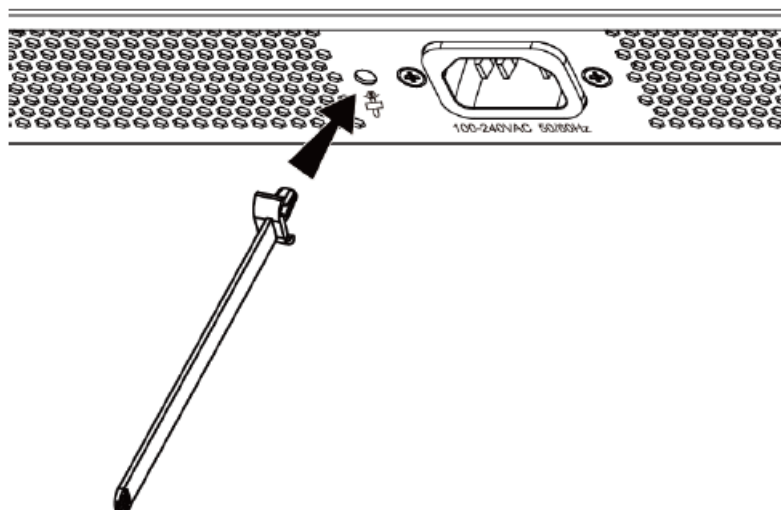
Connect the power cable and the switch first, then connect the power cable to the power supply system of the equipment room.



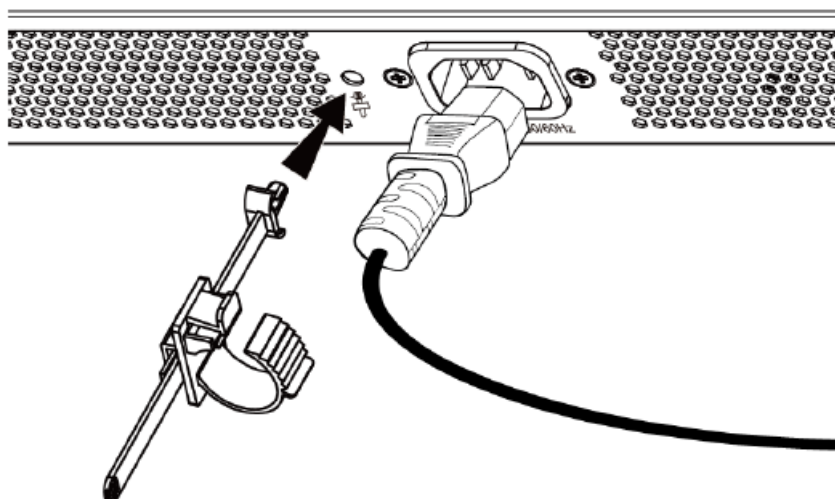
Connecting Power Cord Anti-Trip

In order to protect the power supply from accidental disconnection, it's recommended to use a power cord anti-trip for installation.

1. Place the smooth side of the fixing strap towards the power outlet and insert it into the hole on the side of it.



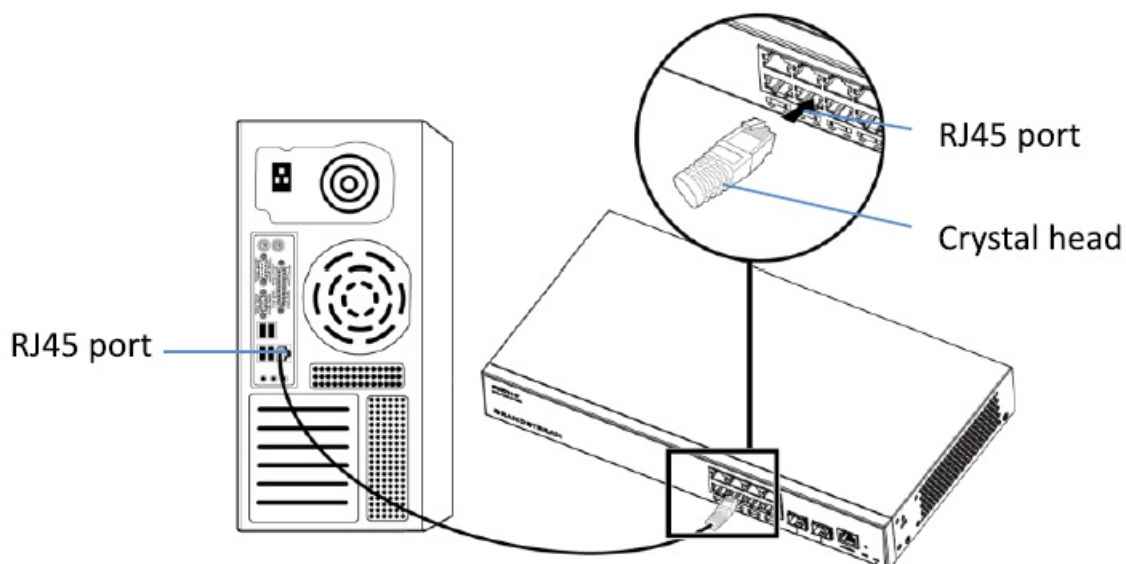
2. After plugging the power cord into the power outlet, slide the protector over the remaining strap until it slides over the end of the power cord.



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

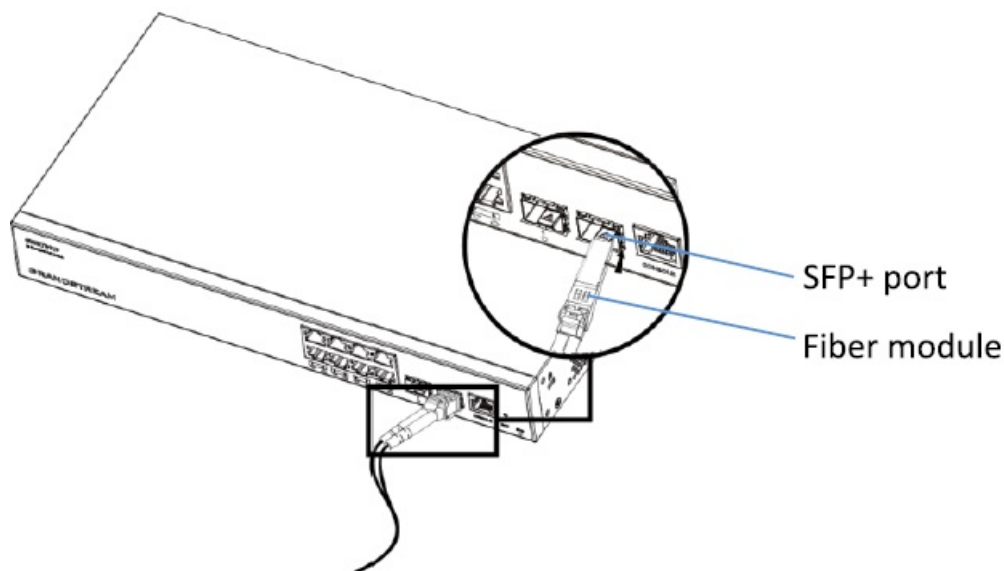


1. After powering on, check the status of the port indicator. If on, it means that the link is connected normally; if off, it means the link is disconnected, please check the cable and the peer device whether are enabled.

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.

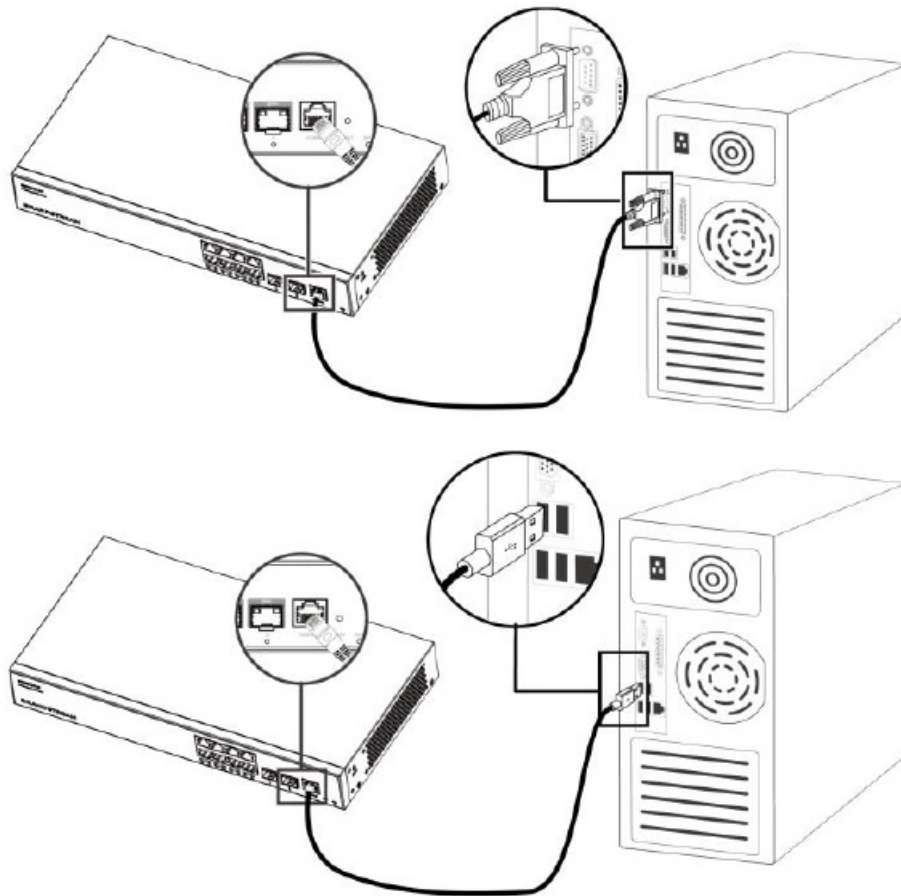
After powered on, check the status of the port indicator. If on, it means that the link is connected normally; if off, it means the link is disconnected, please check the cable and the peer device whether is enabled.

Notes:

1. 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.
2. Please select the same wavelength optical fiber cable for connection.
3. Please select an appropriate optical module according to the actual networking situation to meet different transmission distance requirements.
4. 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 to the D89 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 the switch.



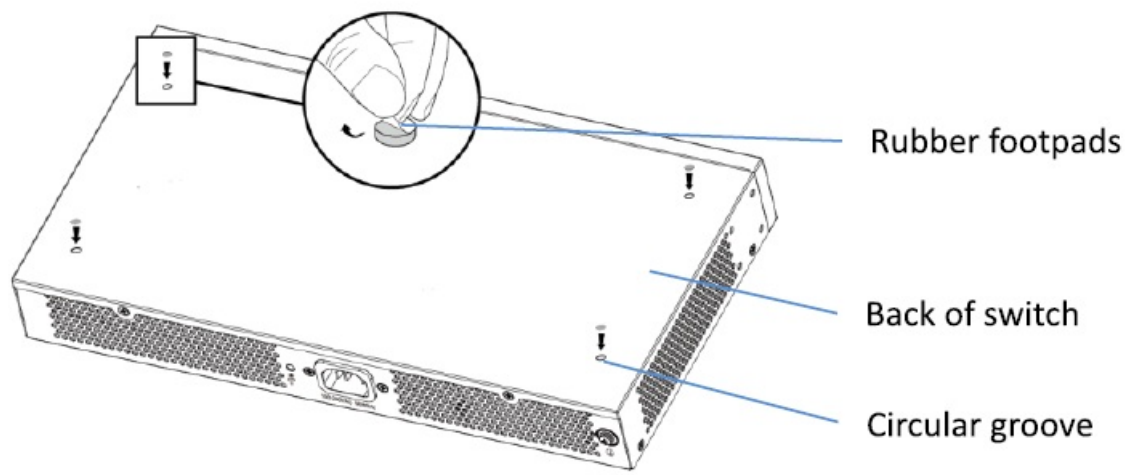
Notes:

1. To connect, the order of the steps (1->2} must be respected.
2. To disconnect, the order of the steps is reversed (2->1}.

INSTALLATION

Install on the Desktop

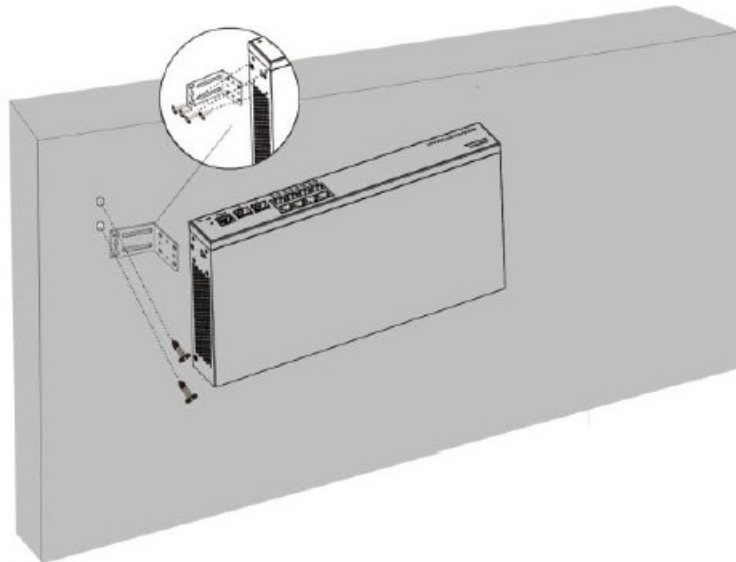
1. Place the bottom of the switch on a sufficiently large and stable table.
2. Peer off the rubber protective paper of the four footpads one by one, and stick them in the corresponding circular grooves at the four corners of the bottom of the case.
3. Flip the switch over and place it smoothly on the table.



Install on the Wall

Note: For GWN7811, please use extended L-shaped rack-mounting kits in the package.

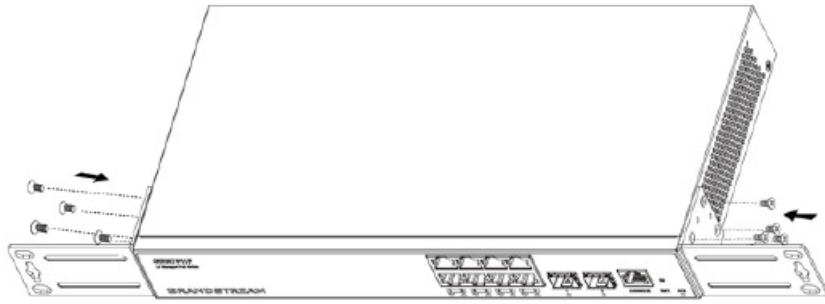
1. Use the matching screws (KM 3*6) to fix the two L-shaped rack-mounting kits (rotated 90°) on both sides of switch.
2. Stick the switch port up and horizontally on the selected wall, mark the position of the screw hole on the L-shaped rack-mounting kits with a marker. Then, drill a hole at the marked position with an impact drill, and drill the expansion screws(prepared by yourself) into the drilled hole in the wall.
3. Use a screwdriver to tighten the screws(prepared by yourself) that have passed through the L-shaped rack-mounting kits to tighten the expansion solenoids to ensure that the switch is firmly installed on the wall.



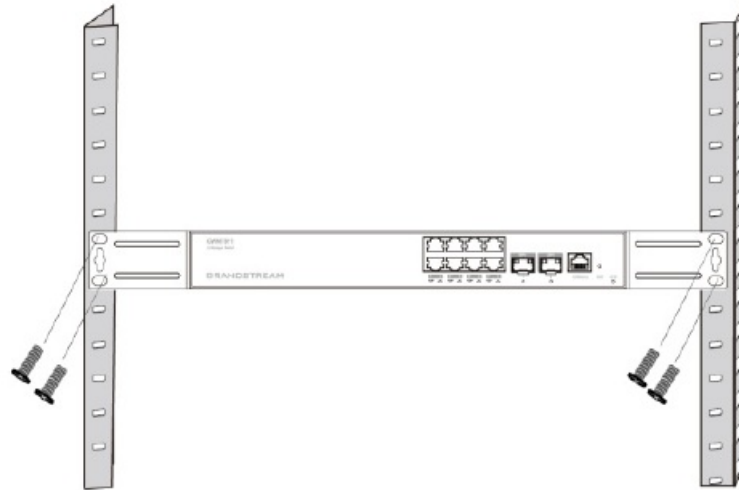
Install on a 19" Standard Rack

Note: For GWN7811, please use extended L-shaped rack-mounting kits in the package.

1. Check the grounding and stability of the rack.
2. Install the two L-shaped rack-mounting in the accessories on both sides of the 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 with 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 stably and horizontally installed on the rack.

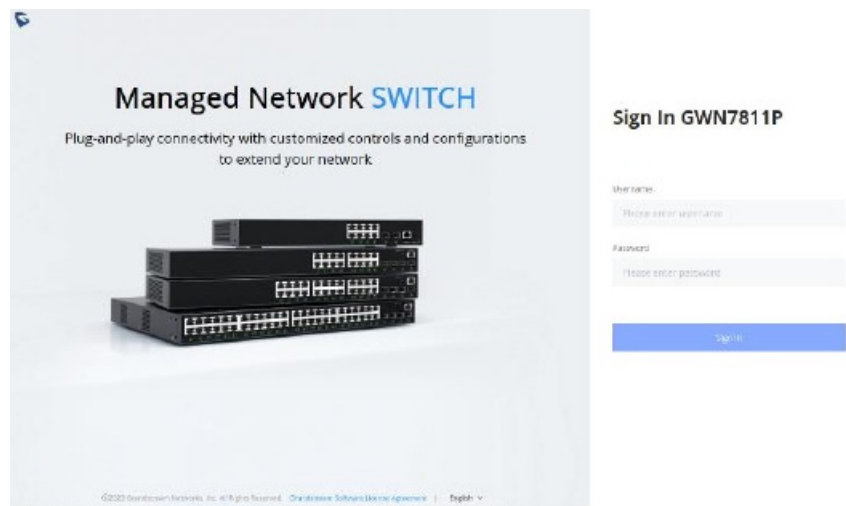


ACCESS & CONFIGURE

Note: If no DHCP server is available, the GWN7811 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 the switch IP address. If DHCP is used, this step could be skipped.
3. Type the switch's default management IP address
https://<GWN7811IP> in the browser, and enter username and password to log in (The default administrator username is "admin" and the default random password can be found at the sticker on the GWN7811 switch).



Method 2: Login using the Console

1. Use the console cable to connect the console port of the switch and the serial port of the PC.
2. Open the terminal emulation program of the PC(e.g. SecureCRT), and enter the default username and password to log in (The default administrator username is “admin” and the default random password can be found on the sticker on the GWN7811 switch).

Method 3: Login Remotely using SSH/Telnet

1. Turn on the Telnet of the switch.
2. Enter “cmd” in PC/Start.
3. Enter telnet <GWN7811_/P> in the cmd window.
4. Enter the default username and password to log in (The default administrator username is “admin” and the default random password can be found at the sticker on the GWN7811 switch).

Method 4: Configure using GWN.Cloud / GWN Manager

- Type <https://www.gwn.cloud> ([https://< own-manager-IP>](https://<own-manager-IP>) for **GWN Manager**) in the browser, and enter the account and password to log in to 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: <http://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: <http://www.grandstream.com/our-products>

Certification Regulatory Information

U.S. FCC Part 15 Regulatory Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and(2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada Regulatory Information

- CAN ICES-003 (A)/NMB-003(A)
- This product meets the applicable Innovation, Science, and Economic Development Canada technical specifications.
- Le présent produit est conforme aux spécifications techniques applicables d'Innovation, Sciences et Développement économique Canada.


EU Regulatory Information

- Hereby, [Grandstream Networks, Inc.] declares that the equipment type [GWN7811] is in compliance with Directive 2014/30/EU&2014/35/EU.
- The full text of the EU declaration of conformity is available at the following internet address:
www.grandstream.com

UK Regulatory Information

- Hereby, [Grandstream Networks, Inc.] declares that the equipment type [GWN7811] is in compliance with UK SI 2016 No. 1091&2016 No. 1101.
- The full text of the UK declaration of conformity is available at the following internet address:
www.grandstream.com
- **Grandstream Networks, Inc.**
- **126 Brookline Ave, 3rd Floor**
- **Boston, MA 02215. USA**
- **Tel:+1 (617) S66 – 9300**
- **Fax:+1 (617) 249 1987**
- www.grandstream.com
- **For Certification, Warranty, and RMA information, please visit**
- www.grandstream.com

Documents / Resources

	<p>GRANDSTREAM GWN7811 Enterprise Layer 3 Managed Network Switch [pdf] Installation Guide</p> <p>GWN7811, YZZGWN7811, GWN7811 Enterprise Layer 3 Managed Network Switch, Enterprise Layer 3 Managed Network Switch, Layer 3 Managed Network Switch, Managed Network Switch, Network Switch, Switch</p>
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