

Adtran 424RG

WIFI Dual Band 4 GE LAN GPON HGU

Version 1.0

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Quick Installation Guide

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1. How to Use the Devices?

The device is standing only. As below:



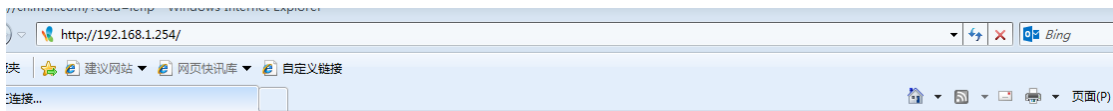
2. Hardware Connections for the 4 models

- Open the PON Cover, connect the fiber cable to the Fiber SC connector of the device.
- Use a Gigabit Ethernet Cable to connect a computer to an **Ethernet** port for initial configuration and/or internet connection.
- Use the provided UPS or Power Adaptor source to the **POWER** Socket. Need to push the **ON/OFF** button to the **ON** position if Power Adaptor is used.
- Connect the USB dongle to the **USB** port if USB wants to be used

Connectors Sequence (Top→Down) – According to PWBA design	LED Sequence (Top→Down) – According to PWBA design
USB	Power
Reset Button	Broadband
LAN4	Service
LAN3	Wi-Fi 2.4GHz
LAN2	Wi-Fi 5GHz
LAN1	Ethernet 4
FXS1	Ethernet 3
FXS2	Ethernet 2
Power Jack	Ethernet 1
UPS Connector	Phone1
	Phone2
	USB
	WPS separate LED
	WPS button

3. Configurations

Step1: In your browser, go to **http://192.168.1.254**, the following screen appears, enter the default username and password: admin/admin and click **Login**.



Step2: After Log into the Web GUI, click **Advanced Setup** for WAN and LAN configuration.



GPON WAN Interface Configuration

Choose Add, or Remove to configure GPON WAN interfaces.
Allow one GPON as layer 2 wan interface.

NOTE: Create interfaces in order (example - create veip0 first, then veip1 and so on).

Interface/(Name)	Connection Mode	Remove
veip0/veip0	VlanMuxMode	<input type="checkbox"/>

Add Remove

IPv6 LAN Auto Configuration
Note: Stateless DHCPv6 is supported based on the assumption of prefix length less than 64. Interface ID does NOT support ZERO COMPRESSION "::". Please enter the complete information. For example: Please enter "0:0:0:2" instead of "::2".

Static LAN IPv6 Address Configuration
Interface Address (prefix length is required):

IPv6 LAN Applications

☒ Enable DHCPv6 Server

☒ Stateless
☐ Stateful

Start interface ID:
End interface ID:
Leased Time (hour):

☒ Enable RADVD

☐ Enable ULA Prefix Advertisement

☐ Randomly Generate
☐ Statically Configure

Prefix:
Preferred Life Time (hour):
Valid Life Time (hour):

☒ Enable MLD Snooping

☐ Standard Mode
☒ Blocking Mode

Step 3: Click **Connect to Internet**, Configure the Connection Type and DNS that ISP assigned.

DNS Proxy Configuration

☒ Enable DNS Proxy

Host name of the Broadband Router:
Domain name of the LAN network:

Step 4: Click **Configure Wireless Network**, Enable the wireless and configure the SSID as you like, the wireless WPA/WPA2 password will be generated automatically.

Wireless -- Basic

This page allows you to configure basic features of the wireless LAN interface. You can enable or disable the wireless LAN interface, hide the network from active scans, set the wireless network name (also known as SSID) and restrict the channel set based on country requirements. Click "Apply/Save" to configure the basic wireless options.

☒ Enable Wireless

☐ Enable Wireless Hotspot2.0

☐ Hide Access Point

☐ Clients Isolation

☐ Disable WMM Advertise

☐ Enable Wireless Multicast Forwarding (WMF)

SSID:
BSSID:
Country:
Country RegRev:
Max Clients:

Wireless - Guest/Virtual Access Points:

Enabled	SSID	Hidden	Isolate Clients	Disable WMM Advertise	Enable WMF	Max Clients	BSSID
<input type="checkbox"/>	wl0_Guest1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	N/A

Certifications

Federal Communications Commission (FCC) Interference Statement

The device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operations.

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio/television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

- This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
- For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.
- IEEE 802.11b, 802.11g or 802.11n (20MHz) operation of this product in the U.S.A. is firmware-limited to channel 1 through 11. IEEE 802.11n (40MHz) operation of this product in the U.S.A. is firmware-limited to channel 3 through 9.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Notices

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



The device complies with the essential requirements of the R&TTE Directive 1995/5/EC.

Radiation Exposure Statement

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

National Communications Commission (NCC)

Article 12

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

Article 14

The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

Industry Canada (IC)

CAN ICES-3 (B)/NMB-3(B)

This device complies with RSS-210 of the Industry Canada 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.

Cet appareil est conforme à la norme CNR-192 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage préjudiciable, et
- (2) l'appareil doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

Safety Warnings

- . Do NOT use this product near water, for example, in a wet basement or near a swimming pool.
- . Do NOT expose your device to dampness, dust or corrosive liquids.
- . Do NOT store things on the device.
- . Do NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning.
- . Connect ONLY suitable accessories to the device.
- . Do NOT open the device or unit. Opening or removing covers can expose you to dangerous high voltage points or other risks. ONLY qualified service personnel should service or disassemble this device. Please contact your vendor for further information.
- . Make sure to connect the cables to the correct ports.
- . Place connecting cables carefully so that no one will step on them or stumble over them.
- . Always disconnect all cables from this device before servicing or disassembling.

- . Use ONLY an appropriate power adaptor or cord for your device.
- . Connect the power adaptor or cord to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe).
- . Do NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord.
- . Do NOT use the device if the power adaptor or cord is damaged as it might cause electrocution.
- . If the power adaptor or cord is damaged, remove it from the device and the power source.
- . Do NOT attempt to repair the power adaptor or cord. Contact your local vendor to order a new one.
- . Do not use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning.
- . Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device.
- . Use only No. 26 AWG (American Wire Gauge) or larger telecommunication line cord.
- . Antenna Warning! This device meets ETSI and FCC certification requirements when using the included antenna(s). Only use the included antenna(s).
- . If you wall mount your device, make sure that no electrical lines, gas or water pipes will be damaged.
- . -Do not use this product near water for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.

-Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

-Do not use the telephone to report a gas leak in the vicinity of the leak.

-Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

- the screen of the coaxial cable is intended to be connected to earth in the building installation

Your product is marked with this symbol, which is known as the WEEE mark. WEEE stands for Waste Electronics and Electrical Equipment. It means that used electrical and electronic products should not be



mixed with general waste. Used electrical and electronic equipment should be treated separately

Environment

Operating Temperature Range: 0 - 40°C

Storage Temperature Range: -20 - 50°C

Humidity Range: 20% ~ 95%R.H.