ALTAI
Super WiFi

Altai A660-X Tri-Radio Wi-Fi 6 Mesh Access Point

Quick Setup Guide

Version 1.0

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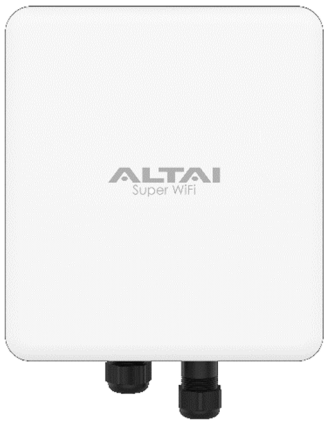
Introduction

Thank you for purchasing the Altai A660-X product. This guide provides instructions to install the product and set it up in AP mode with minimal effort.

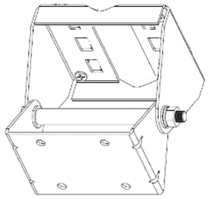
Package Contents

1



A660-X Main Unit x 1

2



Mounting Bracket x 1

3

Pole Mount
Hose Clamp x 2

4

Wall Mount Anchor x 4
Wall Mount Screw x 4

5 Optional accessory

PoE Injector

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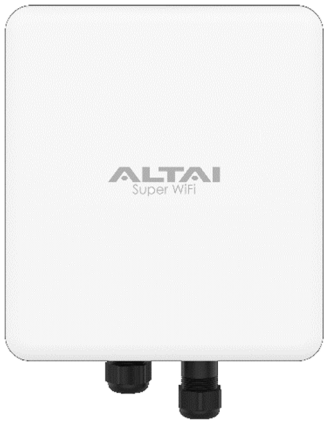
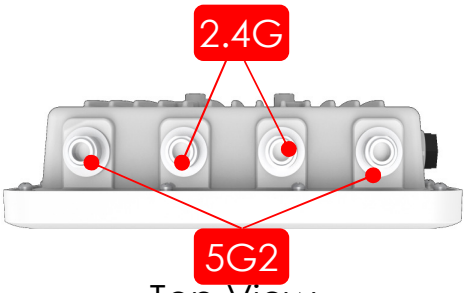
Hardware Overview

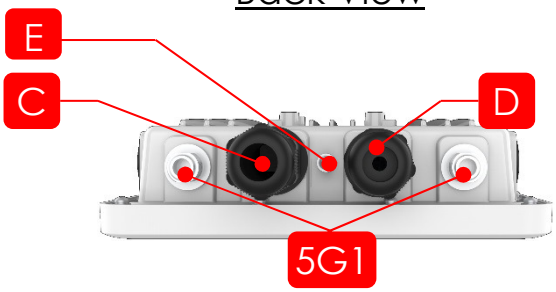


Front View

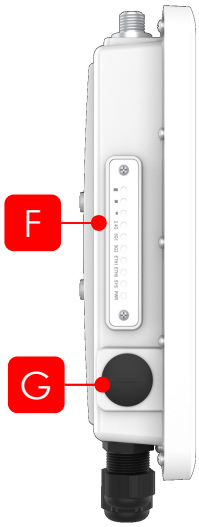
Back View



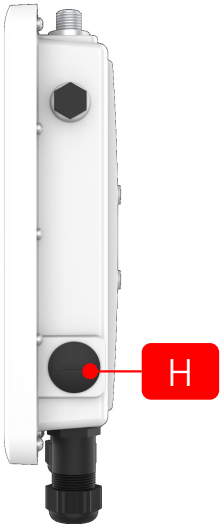
Top View



Bottom View



Left Side View



Right Side View

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2.4G: 2.4GHz External Antenna connectors

Connect external 2.4GHz antennas to the ports.

5G1: 5GHz Low Band External Antenna ports

Connect external 5GHz antennas to the ports.

5G2: 5GHz High Band External Antenna ports

Connect external 5GHz antennas to the ports.

C: SFP Slot

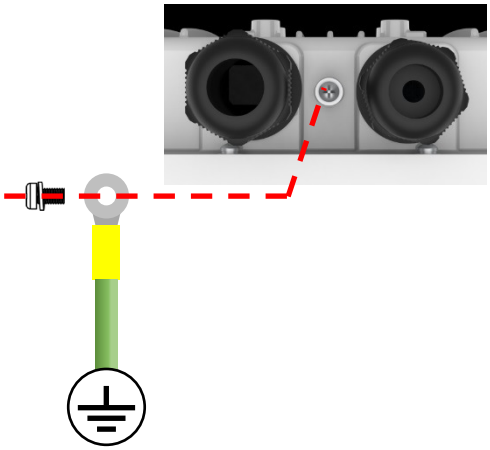
Used with an SFP module for fiber-optic or copper connection. Feed the cable through an M25 cable gland for sealing while the slot is in use.

D: Ethernet Port (PoE In) with Cable Gland

Used for connecting to power source equipment such as a PoE switch or a PoE injector (see the Power Options section) and providing 10/100/1000/2500 Mbps network interface for LAN connection. To seal the RJ45 connector, feed the Ethernet cable through the cable gland, as illustrated in the picture.

E: Ground Point

Used for AP chassis grounding. Attach a ground wire of size 10 AWG (not included) to the chassis with a ground screw. Connect the other end of the wire to a reliable ground point on site for earthing.



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F: LED Panel

LED	Status	Description
Signal Level	**Green**	Three-level signal strength indicator
2.4G	**Green**	Radio enabled
	Flashing Green	Data transmitting/receiving
5G1	**Green**	5GHz Lower Band Radio enabled
	Flashing Green	Data transmitting/receiving
5G2	**Green**	5GHz Upper Band Radio enabled
	Flashing Green	Data transmitting/receiving
ETH1	**Off**	SFP link disconnected
	Green	SFP link connected
	Flashing Green	Data transmitting/receiving via SFP
ETH0	**Off**	LAN (Ethernet) disconnected
	Green	LAN connected with 10/100/1000/2500Mbps of Ethernet speed
	Flashing Green	Data transmitting/receiving
SYS	**Green**	System bootup and ready to operate
PWR	**Green**	System power up

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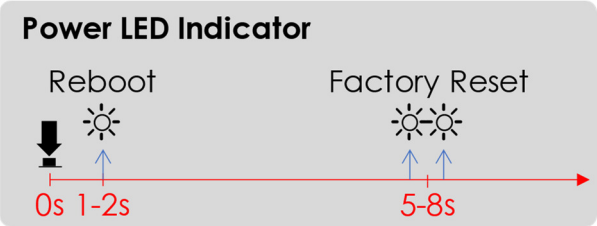
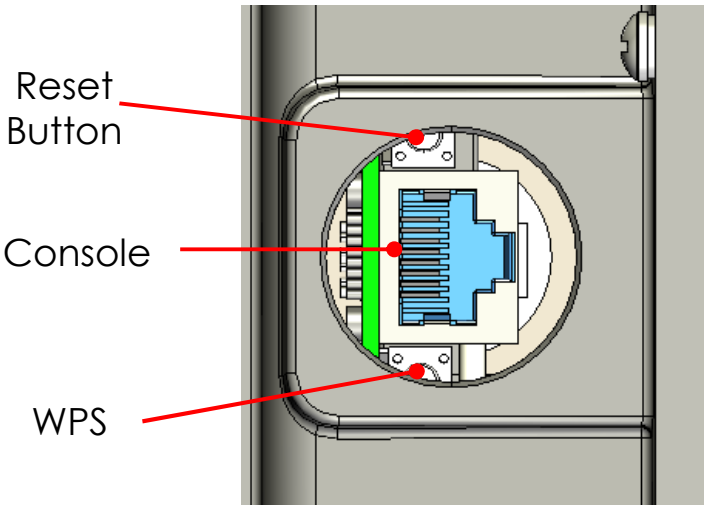
G: Reset Button / Console / WPS

Unscrew waterproof cap to access reset button / console / WPS.

- **Reboot**: Press the button for 1-2 seconds until the power LED blinks once.
- **Factory Reset**: Press the button for 5-8 seconds until the power LED blinks twice consecutively.





- **Console**: It can be used for maintenance purpose. Connect RJ45 to UART console.
- **WPS**: Press the button to perform automatic connection between Access Point and Mesh Node.

H: USB

Connect external add-on device via USB port.

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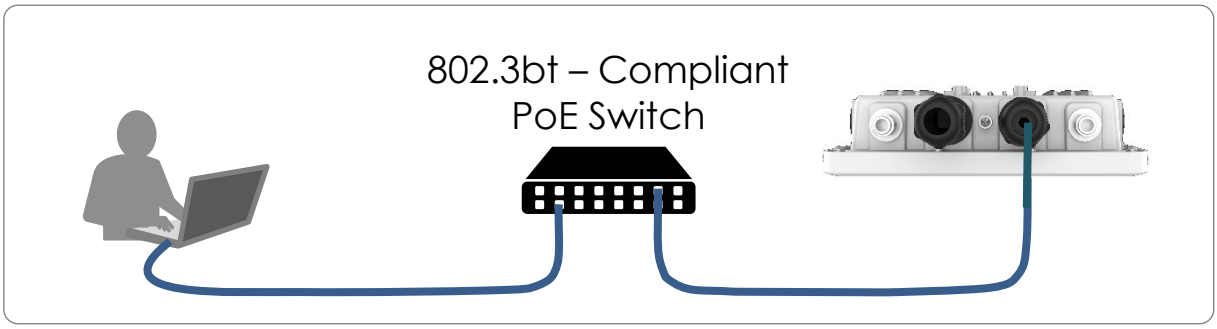
Setup Requirements and Preparation

- A computer with a web browser
- Two Cat 5e/6 Ethernet cables
- A PoE injector (purchased separately) and a power cord; alternatively, an 802.3bt-compliant PoE switch to power up the A660-X

Power Options and Cable Connection Instructions

Follow one of the options below to power up the A660-X for configuration.

Option 1: 802.3bt-Compliant PoE Switch



1. Connect the A660-X to an 802.3bt-compliant PoE switch with an Ethernet cable.
2. Connect a computer to the switch with another Ethernet cable.
3. When the power LED turns into a solid light, it is ready for configuration.

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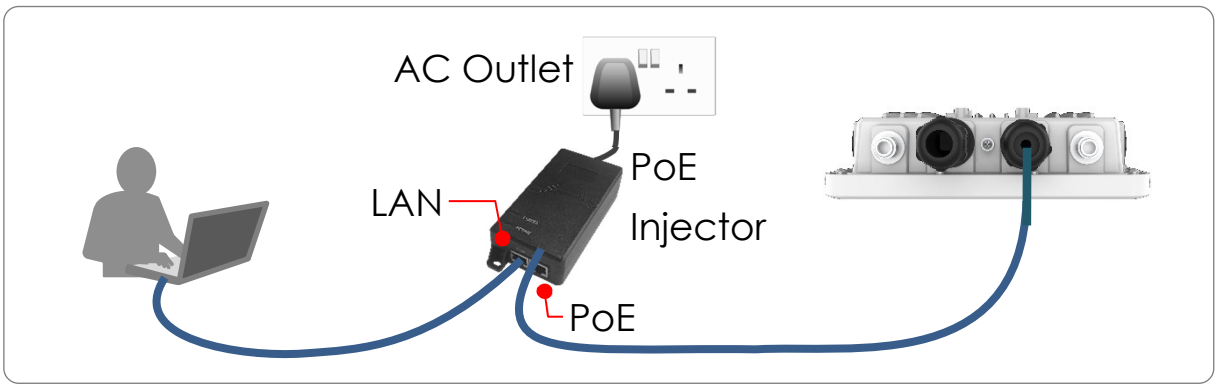
Option 2: PoE Injector (purchased separately)



1. Connect the PoE injector's ports as follows with Ethernet cables.
   - **PoE Port**: To the A660-X
   - **LAN Port**: To a computer
2. Connect the PoE injector to the AC power socket using a power cord.
3. When the power LED turns into a solid light, it is ready for configuration.

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1. Change TCP/IP Setting on Your Computer

For Windows 7/Windows 10/Windows 11 users,

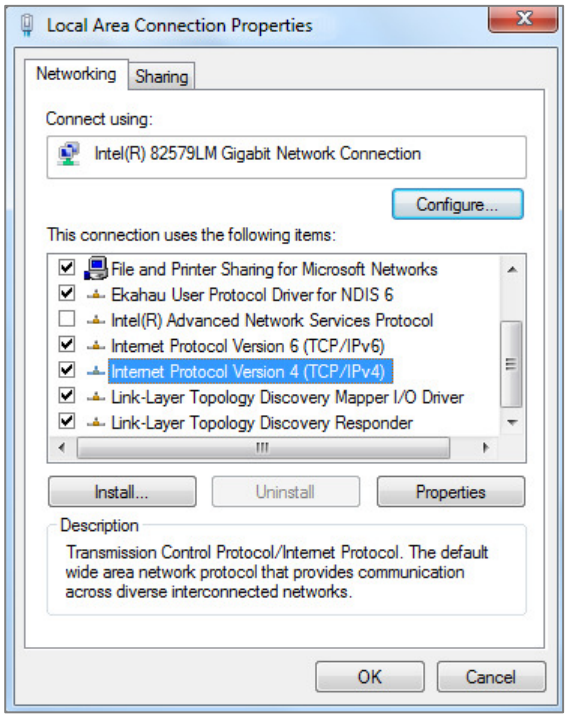
1. Go to **Control Panel**, click **Network and Sharing Center** and then choose the Ethernet adapter that is in connection with the A660-X unit. Click it and then click **Properties**.

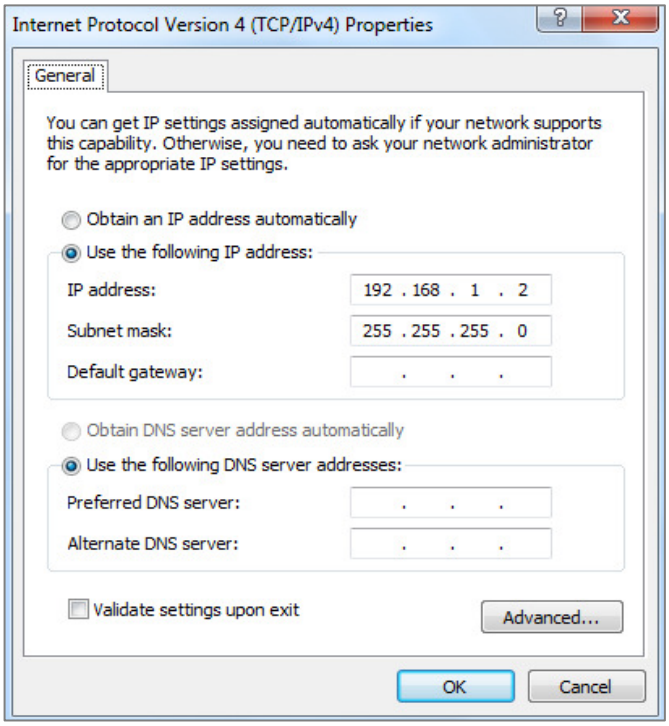
2. Under the **Networking** tab, select **Internet Protocol Version 4 (TCP/IPv4)** in the list box "**This connection uses the following items**", and then click **Properties**.

3. Type in the following IP address and Subnet mask:

   - IP address: 192.168.1.2
   - Subnet mask: 255.255.255.0

4. Click **OK** to close the **Internet Protocol Version 4 (TCP/IP) Properties** dialog box and click **OK** again to close the adapter **Properties** dialog box.





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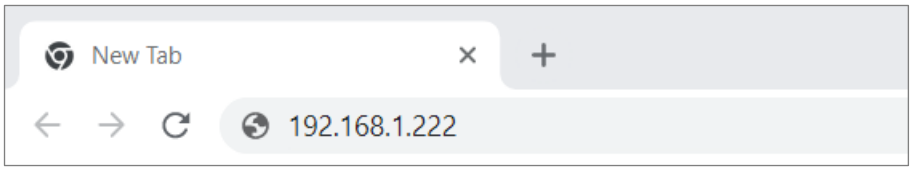
2. Access to Web Interface

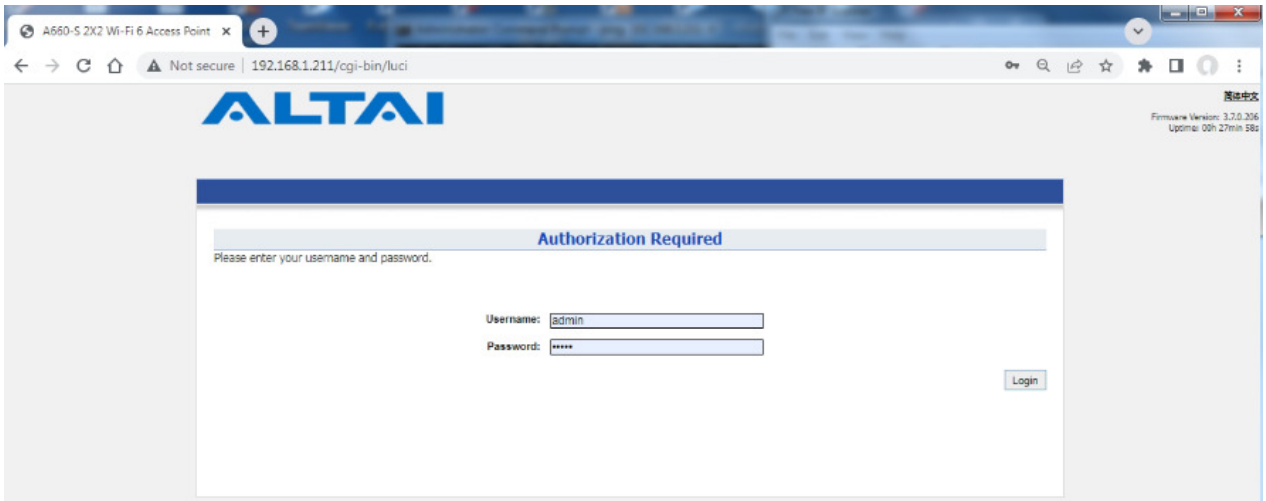
1. Open a web browser, e.g. Google Chrome, Apple Safari, or Microsoft Edge. Type **192.168.1.222** in the address bar and then hit **Enter**.



2. The login page will come up. Enter the default username and password as follows:

   - Username: **admin**
   - Password: **admin**

3. Click Login.



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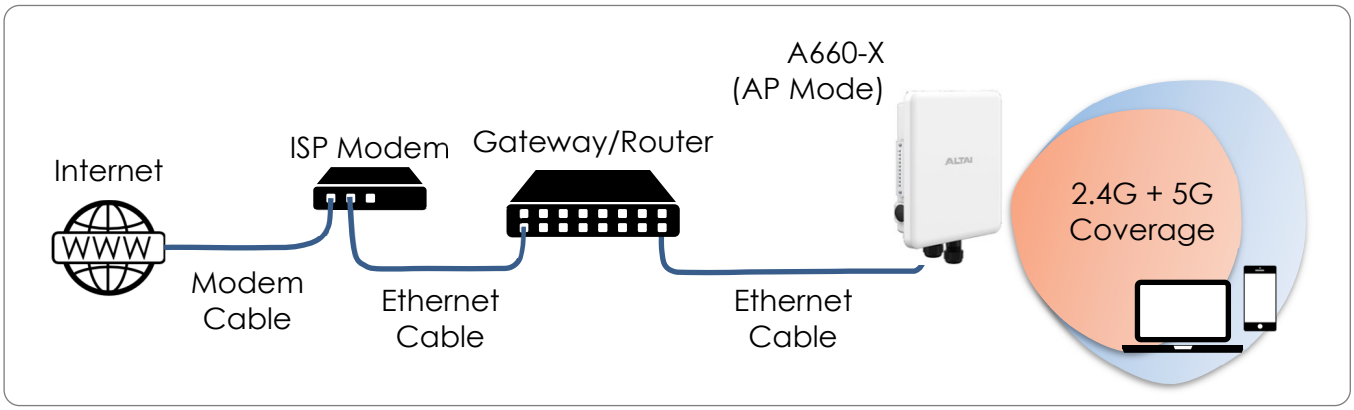
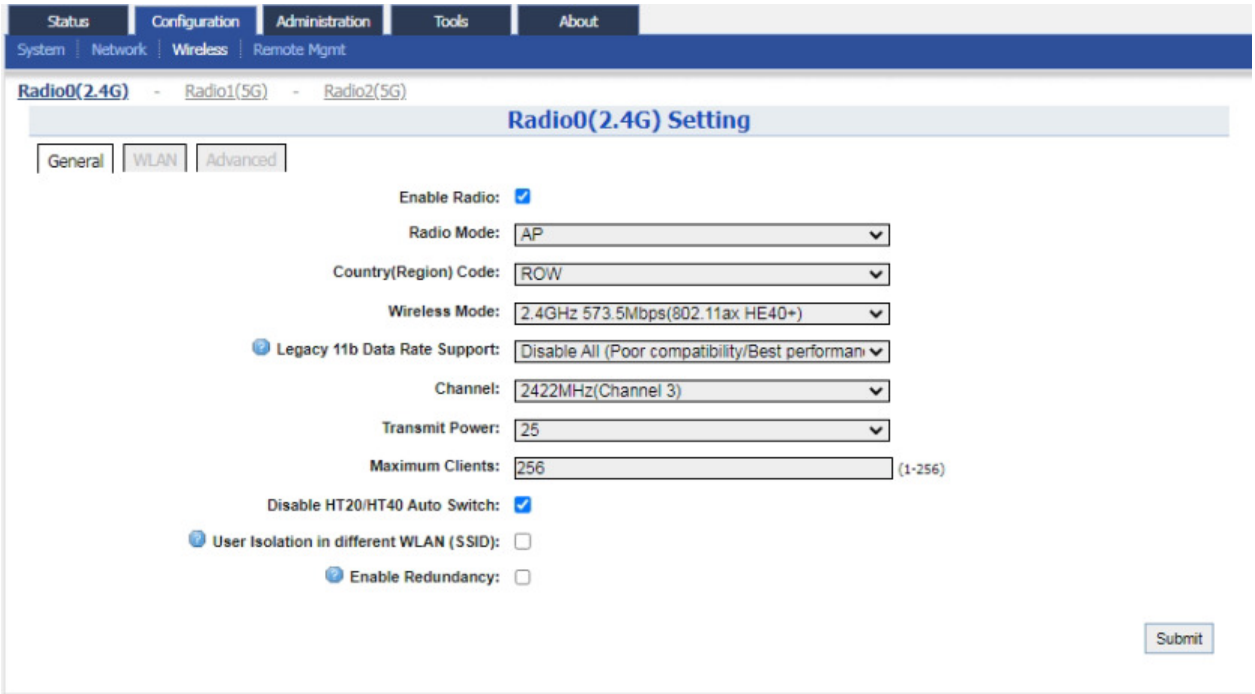
3. Configure AP Mode (2.4G/5G)

Network Scenario



Go to **Configuration** > **Wireless** > **Radio0(2.4G)/Radio1(5G)** > **General**. The below screenshots show an example for 2.4G radio configuration only. The same procedures apply to 5G radio configuration.

1. Check the box to **Enable Radio**. Select **AP** for the Radio Mode. Then click **Submit** button.



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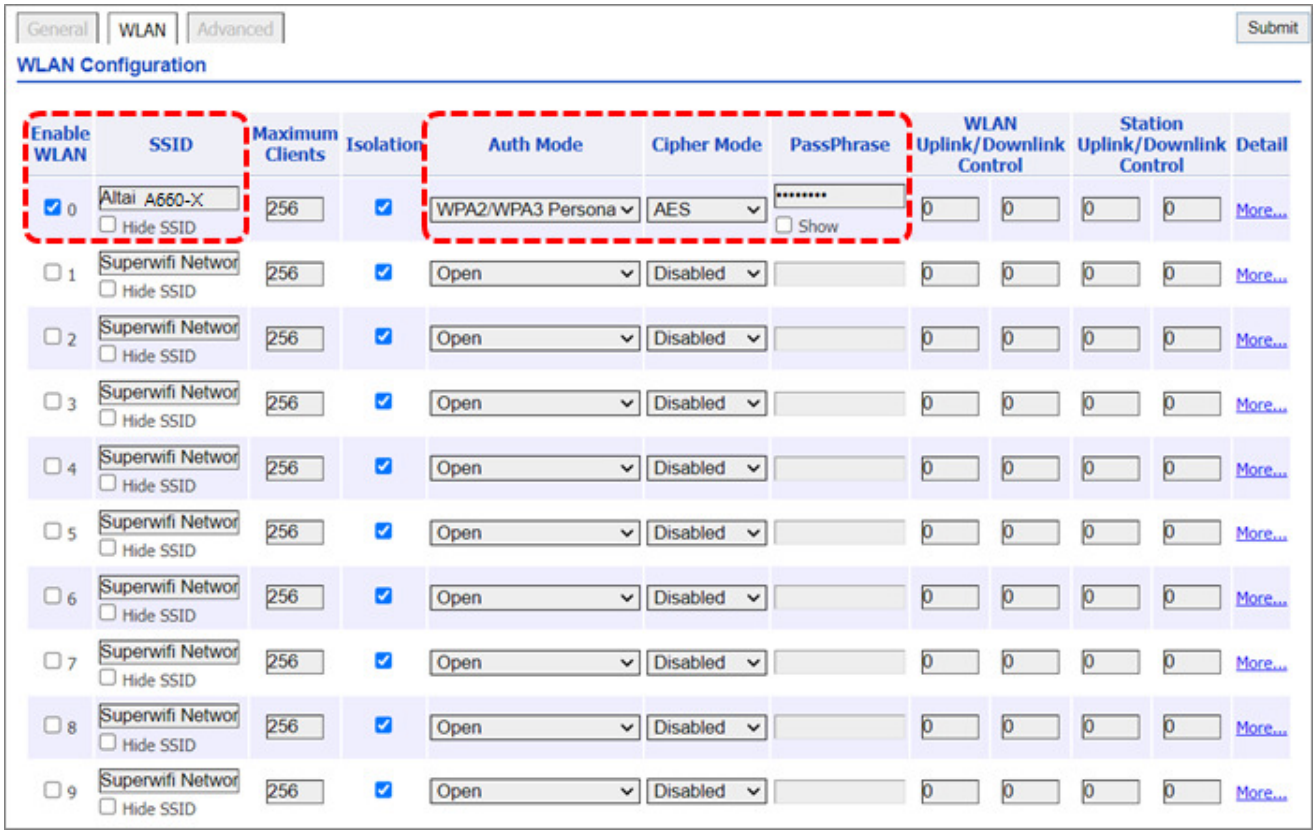
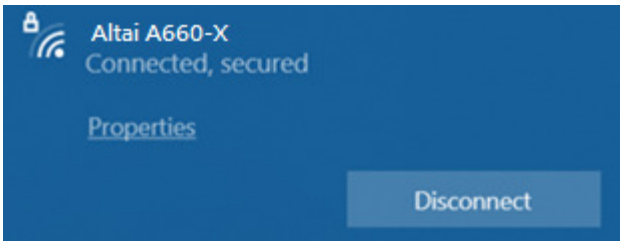
2. Click the **WLAN** tab on the navigation bar. Check the box to **Enable WLAN 0**. Enter the **SSID** to name the wireless network you want to advertise, e.g. Altai A660-X. To secure a Wi-Fi network, you can use WPA2/WPA3 Personal or WPA2/WPA3 Enterprise. For simplicity, select **WPA2/WPA3 Personal** for Auth Mode and enter a string of 8-64 characters long for **Passphrase**. Then click **Submit** button.



3. Click **Save & Apply** in the top right corner to make the changes take effect.

4. Hook up the A660-X unit as in the Network Scenario. The SSID should now be broadcast and be seen in the computer for wireless connection.



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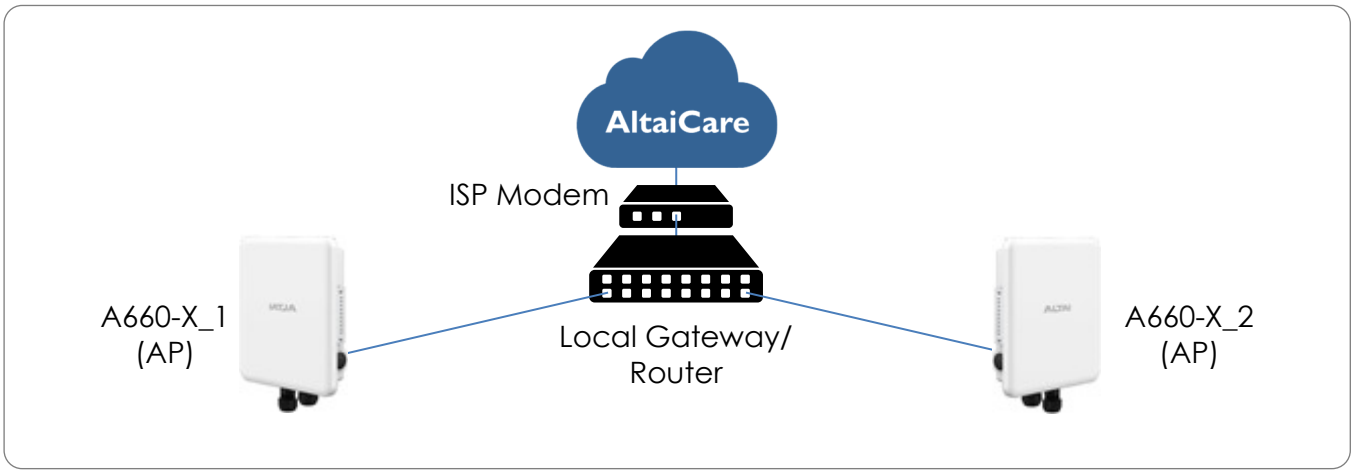
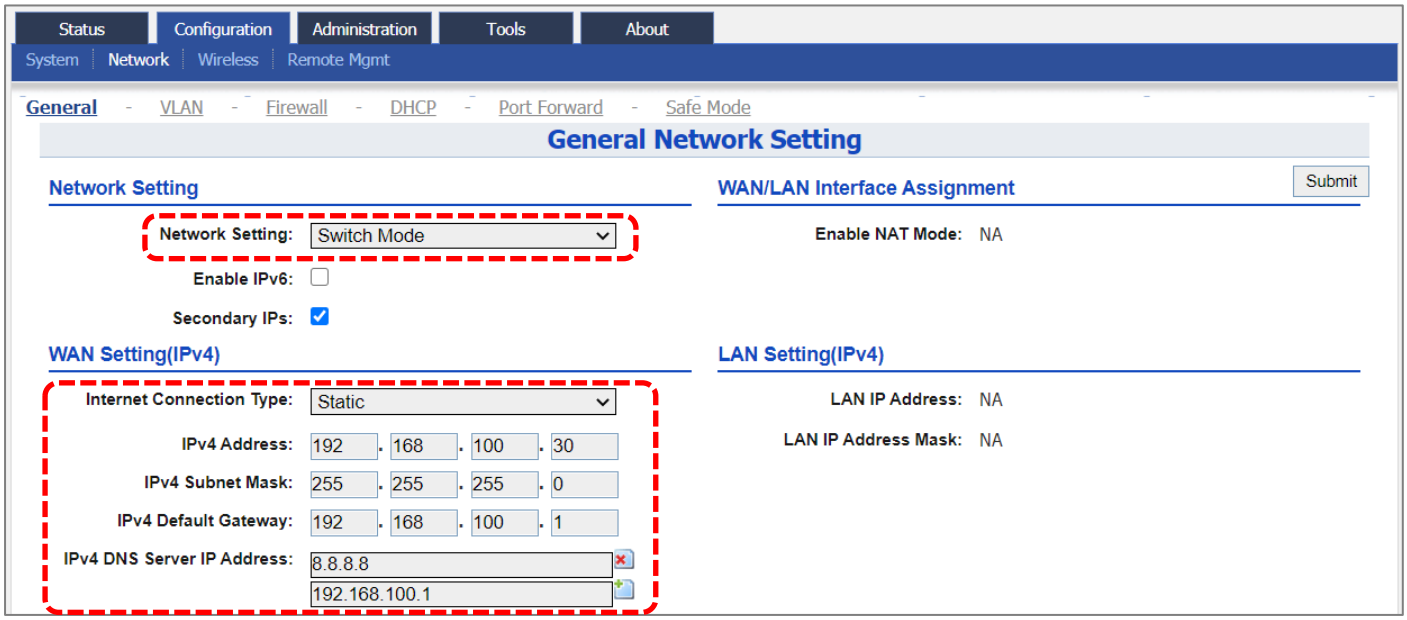
4. Connect with Cloud-Based Controller – AltaiCare

Network Scenario



You can subscribe to AltaiCare cloud service to manage your APs anywhere. Follow the steps below to register your APs.

1. Go to **Configuration** > **Network** > **General**. Select **Switch Mode** for Network Setting. Make sure the A660-X can reach the Internet and communicate with AltaiCare by setting **valid** IP configuration via DHCP or with static IP configuration. You can use Google Public DNS Server, e.g. 8.8.8.8 or 8.8.4.4, if you are unsure about your ISP DNS's server IP address.



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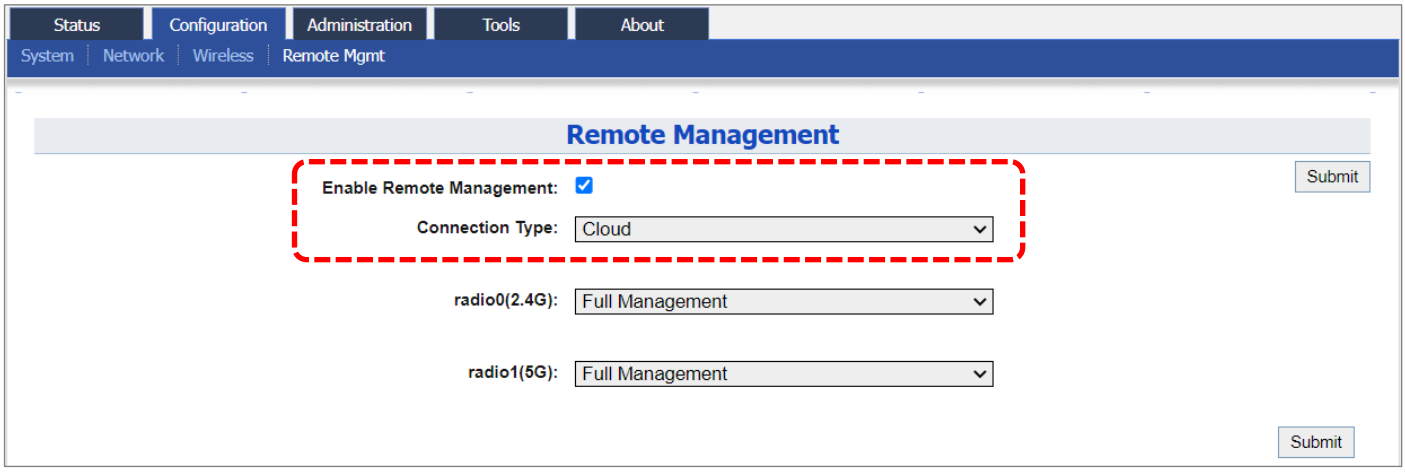
2. Click the **Remote Mgmt** tab on the navigation bar. Check the box to **Enable Remote Management**. Select **Cloud** as the Connection Type.

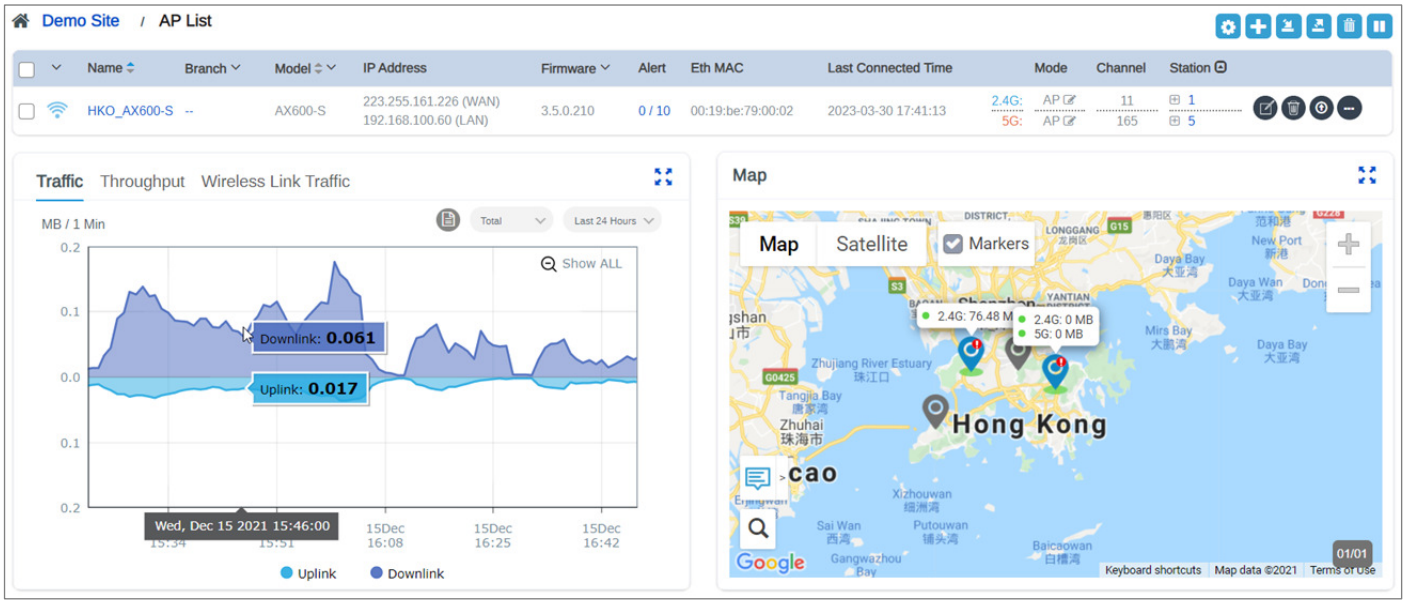


3. Select **Full Management** if the radio (2.4G/5G) runs on **AP Mode**. If **Station/Bridge/Repeater Modes**, select **Monitor Mode** instead.

4. Click **Submit** button and then **Save & Apply** in the top right corner to make the changes take effect.

5. Follow AltaiCare Quick Start Guide to register the A660-X in the cloud system.

6. The A660-X will come up online in AltaiCare if the connection is successful.



Federal Communication Commission Interference Statement (FCC) – USA

This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 100cm between the radiator & your body.

European Conformity (CE) – EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

CE

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Warning

A660-X may require professional installation depending on the deployment scenario.

Only use the optional power adaptor available for A660-X. Using a different power adaptor might damage the device.

The metal chassis of the equipment may be hot. Pay special attention or use special protection before handling this equipment.

Operations in the 5.15-5.25 GHz band are restricted to indoor usage only.

Disclaimer

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