



## Altum AC 600

### Introduction

This manual covers the operation of the Altum AC wireless radio user interface. The radio can be operated as a point-to-point (PtP) system, a point to multipoint (PmP) system, or a point to point with 2.4 GHz Wifi hotspot. The radio settings and mode of operation are controlled with a web based user interface that is run from any standard web browser.

### System requirements:

**Operating System:** Microsoft Windows XP, Windows Vista, Windows 7, Windows 8, Linux, or Mac OS X.

**Web Browser:** Mozilla Firefox, Google Chrome, Apple Safari, or Microsoft Internet Explorer 8 or above.

### Getting started with:

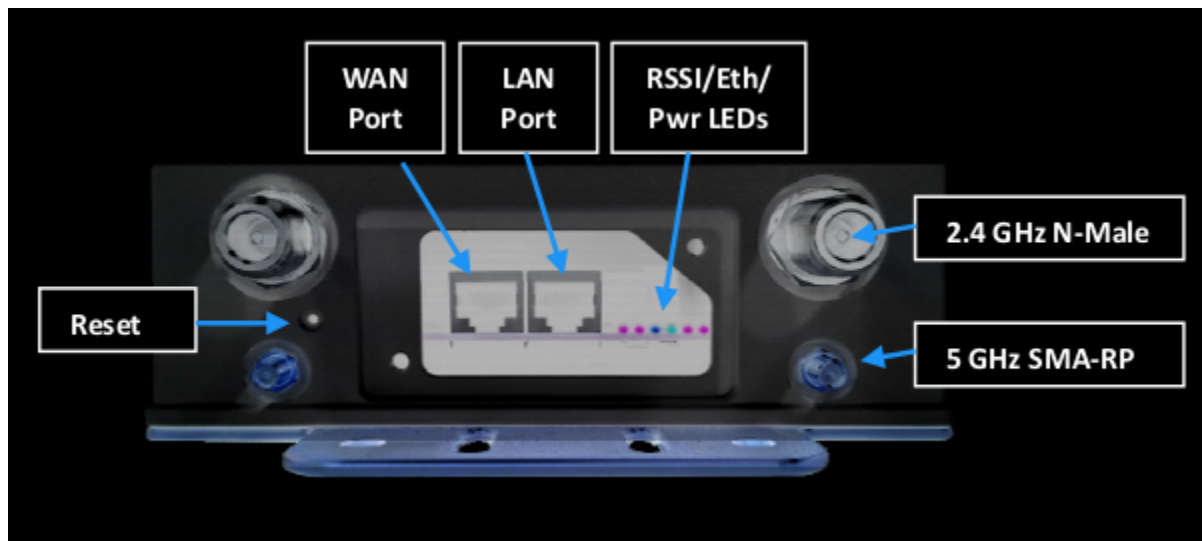


Figure: Altum AC interface

Before establishing a link several parameters must be configured using the web interface. To access the web interface, perform the following steps:



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1. Connect the local area network (LAN) port of the radio to the PoE port of the PoE Injector using a Cat5e Ethernet cable. Plug the PoE into the AC power source. The rightmost LED on the radio should illuminate, indicating the unit is booting up.

2. Connect the network port of your computer to the PoE injector network port using a Cat5e Ethernet cable.

For linux system:

Go to system > preference > internet and network > Advanced network configuration

Go to ethernet

Assign static ip address 169.254.50.150 for your computer

Assign subnet mask 255.255.255.0

Go to the terminal and write the command below to restart the networkmanager.

`sudo service NetworkManager restart`

For window system

Go to the internet and network and assign the same ip address and subnet mask for static configuration as similar

Assign static ip address 169.254.50.150 for your computer

subnet mask 255.255.255.0

3. Launch a web browser and enter the default IP address of the radio, 169.254.50.137, into the address bar.

Authorization required shows:

Provide username and password:

Username: admin

Password: trango

The radio's configuration default web page should be presented.



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Trango\_ALTUM\_ac | A600 v1.73\_b150319 | | Auto Refresh: on Changes: 0

**TRANGO**  
SYSTEMS

Status System Services **Network** Logout

Interfaces **Wifi** VLANs Hostnames Static Routes Diagnostics Firewall QoS

wifi0: Master "A600-2" **wifi1: Master "Trango\_ALTUM\_ac"**

**Wireless Network: Master "Trango\_ALTUM\_ac" (ath0)**

The *Device Configuration* section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which is shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the *Interface Configuration*.

**Device Configuration**

General Setup **Advanced Settings**

Status

**Mode:** Master | **SSID:** Trango\_ALTUM\_ac  
**BSSID:** 00:01:DE:3D:71:47 | **Encryption:** None  
**Channel:** 36 (5.180 GHz) | **Tx-Power:** 4 dBm  
**Signal:** -95 dBm | **Noise:** -95 dBm  
**Bitrate:** 866.7 Mbit/s | **Country:** Nepal

36%

Please configure the access point first.

**Access point configuration for Trango with mac address 00:01:DE:3D:71:47.**

Check ping:



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Command Prompt

```
C:\Users\Acer> ping169.254.50.137
'ping169.254.50.137' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Acer> ping169.254.50.137
'ping169.254.50.137' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Acer> ping 169.254.50.137

Pinging 169.254.50.137 with 32 bytes of data:
Reply from 169.254.50.137: bytes=32 time=10ms TTL=64
Reply from 169.254.50.137: bytes=32 time=1ms TTL=64
Reply from 169.254.50.137: bytes=32 time<1ms TTL=64
Reply from 169.254.50.137: bytes=32 time=1ms TTL=64

Ping statistics for 169.254.50.137:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 3ms

C:\Users\Acer>
C:\Users\Acer> ping 169.254.50.137

Pinging 169.254.50.137 with 32 bytes of data:
Reply from 169.254.50.137: bytes=32 time=2ms TTL=64
Reply from 169.254.50.137: bytes=32 time<1ms TTL=64
Reply from 169.254.50.137: bytes=32 time<1ms TTL=64
Reply from 169.254.50.137: bytes=32 time=2ms TTL=64

Ping statistics for 169.254.50.137:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 1ms

C:\Users\Acer>
```

step1> go to 169.254.50.137 at the web browser the default page will open and provide a time zone of your location.



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SYSTEMS

Status System Services Network Logout

System Administration Services SNMP LED Configuration Backup / Flash Firmware Reboot

### System

Here you can configure the basic aspects of your device like its hostname or the timezone.

#### System Properties

General Settings Logging Language and Style

Local Time Thu Jul 18 11:01:16 2024 Sync with browser

Hostname Trango\_ALTUM\_ac

Timezone Asia/Kathmandu

#### Time Synchronization

Enable NTP client ☒

Provide NTP server ☐

NTP server candidates time.nist-d.gov

Reset Save Save & Apply

Then click save and apply

step2> Then, click network tab and go with interface and wifi  
Select 5 ghz 802.11ac with edit option



Trango\_SYSTEMS

Trango\_ALTUM\_ac | A600 v1.73\_b150319 | | Auto Refresh: on

Changes: 0

Status System Services **Network** Logout

Interfaces **Wifi** VLANs Hostnames Static Routes Diagnostics Firewall QoS

wifi0: Client "A600-2" wifi0: Master "MimoSeries3" wifi1: Client-WDS "Trango\_ALTUM\_ac"

### Wireless Overview

**2.4 GHz 802.11bgn Radio**  
Channel: 1 (2.412 GHz) | Bitrate: 300 Mbit/s

Scan Add

30%	SSID: A600-2   Mode: Client BSSID: 00:01:DE:3D:75:37   Encryption: -	Disable Edit
100%	SSID: MimoSeries3   Mode: Master BSSID: 00:01:DE:3D:75:36   Encryption: None	Disable Edit Remove

**5 GHz 802.11ac/an Radio**  
Channel: 36 (5.180 GHz) | Bitrate: 866.7 Mbit/s

Scan Add

76%	SSID: Trango_ALTUM_ac   Mode: Client-WDS BSSID: 00:01:DE:3D:71:47   Encryption: None	Disable Edit
-----	---	--------------

### Associated Stations

MAC-Address	Network	Signal	Signal/Chains	Noise	TX Rate	RX Rate	TX-CCQ
No information available							

step3> click interface configuration and choose access point (WDS) wireless distribution system

Click save and apply with default ESSID:Trango-ALTUM-ac

step4> reload the page at top of the browser 1 time and select continue.

Put mac address(BSSID)of station ie 00:01:DE:3D:75:37





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← → ↻ ⚠ Not secure 169.254.50.137/cgi-bin/web/stok=dcaae7e8f2edad7d52e29784f5295a2/admin/network/wir... ☆ 📄 ⬇

Signal: 99 dBm | Noise: 99 dBm  
Bitrate: 866.7 Mbit/s | Country: Nepal

Wireless network is enabled	<input checked="" type="checkbox"/> Disable
Country Code	Nepal ▼
Please refresh the webpage when you change the country code to see the corresponding list of channels	
Wireless Profile	802.11ac - 5 GHz ▼
Channel Spectrum Width	20/40/80 MHz ▼
Channel	Auto ▼
Antenna Gain (dBi)	16
Transmit Power	Max ▼
Max EIRP: 20	

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**Interface Configuration**

General Setup | **Wireless Security** | Advanced Settings

Mode	Station ▼
ESSID	Trango_ALTUM_ac
BSSID	00:01:DE:3D:75:37
Guard Interval	Short ▼
Data Rate (Mbps)	Auto ▼

Click save and apply

After save and apply it takes some time to save in memory and link get started with ssid name Trango-ALTUM-ac.

### Station configuration for trango with mac 00:01:DE:3D:75:37.

Connect the lan port of adaptor with ethernet port of your computer to station trango

Go to lan interface and change ip address 169.254.50.136



← → ↻ ⚠ Not secure 169.254.50.137/cgi-bin/web/stok=dcaee7e8f2edad7d52e29784f5295a2/admin/network/net... ☆

Trango\_ALTUM\_ac | A600 v1.73\_b150319 | | Auto Refresh: on

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SYSTEMS

Status System Services **Network** Logout

Interfaces Wifi VLANs Hostnames Static Routes Diagnostics Firewall QoS

WAN **LAN**

### Interfaces - LAN

Common Configuration

General Setup **Advanced Settings** Physical Settings

Status

br-lan

**Uptime:** 1h 18m 16s  
**MAC-Address:** 00:01:DE:3D:71:44  
**RX:** 581.89 KB (3521 Pkts.)  
**TX:** 1.76 MB (2759 Pkts.)  
**IPv4:** 169.254.50.137/24

Protocol	Static address ▼
IPv4 address	169.254.50.136
IPv4 netmask	255.255.255.0 ▼
IPv4 gateway	
IPv4 broadcast	
Use custom DNS servers	

step1> click network tab and go with interface and wifi

Select 5 ghz 802.11ac with edit option

step2> click interface configuration and choose station WDS

Click save and apply with default ESSID:Trango-ALTUM-ac

step3> reload the page at top of the browser 1 time and select continue.

Put mac address of station ie 00:01:DE:3D:71:47





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Wireless Network: Client-WDS "Trango\_ALTUM\_ac" (ath1)

The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which is shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the Interface Configuration.

**Device Configuration**

General Setup | Advanced Settings

Status: 70%

Mode: Client-WDS | SSID: Trango\_ALTUM\_ac  
BSSID: 00:01:DE:3D:71:47 | Encryption: None  
Channel: 36 (5.180 GHz) | Tx-Power: 4 dBm  
Signal: -71 dBm | Noise: -95 dBm  
Bitrate: 866.7 Mbit/s | Country: Nepal

Wireless network is enabled ☐ Disable

Country Code: Nepal

Wireless Profile: 802.11ac - 5 GHz

Channel Spectrum Width: 20/40/80 MHz

Channel: Auto

Antenna Gain (dBi): 18

Transmit Power: Max

Max EIRP: 20

**Interface Configuration**

General Setup | Wireless Security | Advanced Settings

Mode: Station (WDS)

ESSID: Trango\_ALTUM\_ac

BSSID: 00:01:DE:3D:71:47

Guard Interval: Short

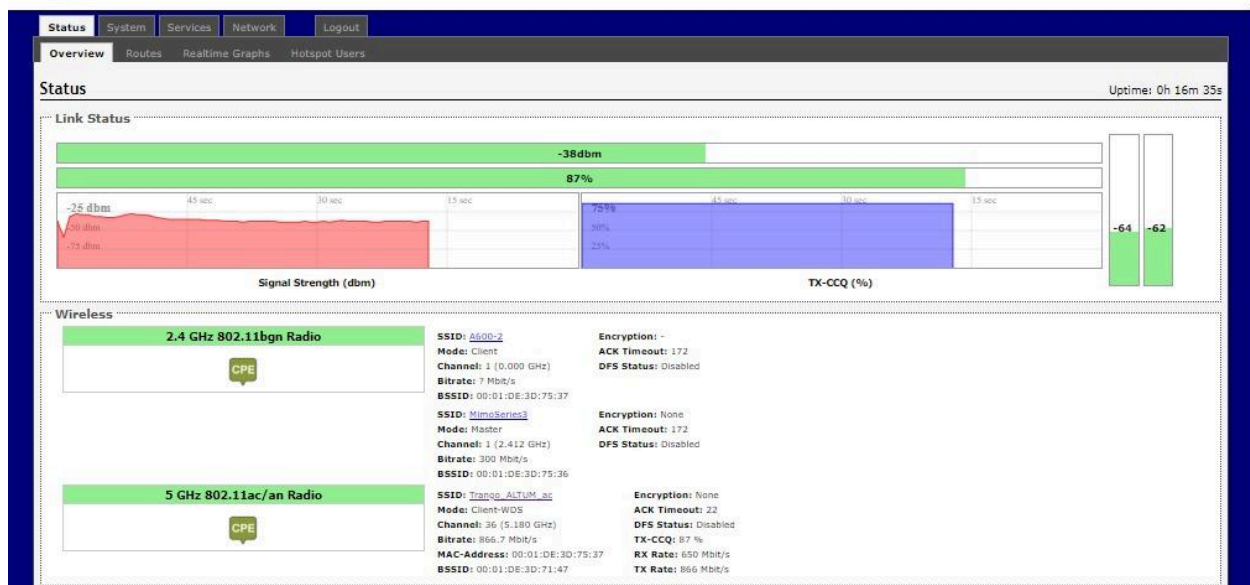
Data Rate (Mbps): Auto

Activate Windows  
Go to Settings to activate Windows.

Reset Save Save & Apply

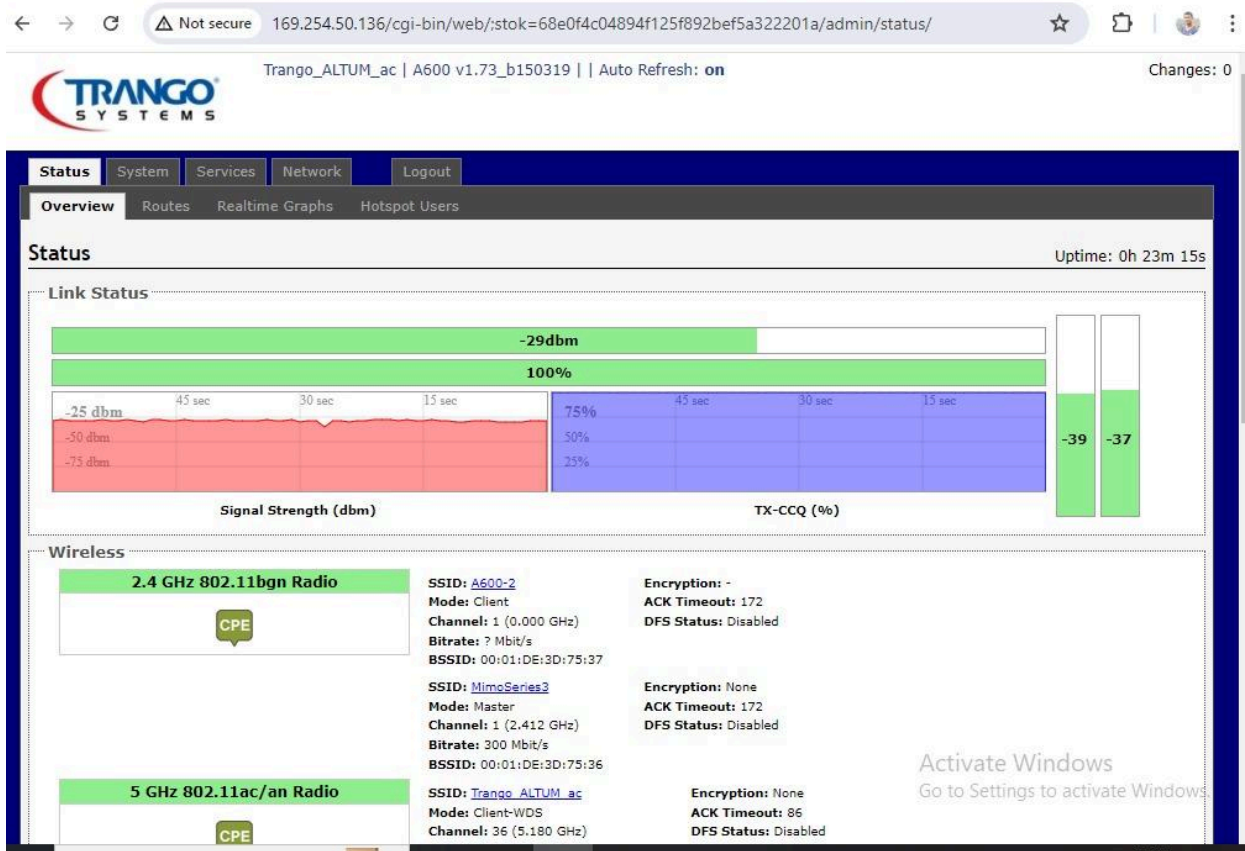
Click save and apply

Now connect 2 devices on same computer and load the two page for 169.254.50.136(for station) 169.254.50.137 (For access point)  
Then the link is established.





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In this way, you can communicate with two trango devices. One configured as an access point and one as a station.