



WB550

5G CPE

ATEL'S CPE WB550 Series is designed to provide high-speed cellular data connectivity via 5G/4G cellular Network to the Internet for multiple device connected over WLAN and LAN.



5G NR / 4G-LTE



High Data Speed



WebGUI
Easier Configuration



MIMO
4x4



Wi-Fi 6
802.11 b/g/n/ac/ax



HD Voice



2XGE

SPECIFICATIONS

STANDARDS COMPLIANCE	
3GPP	3GPP Release 15
LTE UE Category	Cat 19 (DL) / Cat 18 (UL)
Wi-Fi	802.11b/g/n/ac/ax

BASIC FEATURES	
Data Speed	5G NSA: 4.67Gbps(DL)/1.25Gbps(UL) 5G SA: 3.74Gbps(DL)/835Mbps(UL) LTE: 1.6Gbps(DL)/211Mbps(UL)
Band Width	1.4/3/5/10/15/20/100MHz
USIM	4FF
5G MIMO	4x4
4G MIMO	4x4
Wi-Fi Clients	Up to 32
Wi-Fi MIMO	2x2
Voice	VoLTE/VoNR
Interface	2 x GE RJ45 1 x RJ11 LEDs DC Power Input Nano USIM Socket Reset Button

BASIC HARDWARE FEATURES	
RF Transmit Power	n41/n77/n78/B41 are HPUE 26 dBm \pm 2 dB other bands are 23dBm \pm 2dBm※
Receiver Sensitivity	<-100dBm(20MHz,QPSK)
	Omni Internal Antenna
	4dBi Internal Antenna
	Power < 24W AC: 100V-240V 50Hz/60Hz DC: 12V / 2A

※: n30/LTE B30/LTE B48 21 dBm \pm 2 dB

BASIC SOFTWARE FEATURES	
Configuration	Web GUI
FOTA	Yes
VPN Pass Through	Yes
MAC Address Filtering	Yes
NAT Support	Yes
Multi-APN	Yes
Auto/Manual APN	Yes
TR069	Yes
IPV4/IPV6 Dual Stack	Yes
SIM Lock	Yes
Security	WPA2-PSK/WPA3
Language	English (Other language can be customized)

ENVIRONMENTAL SPECIFICATIONS	
Operation Temp	-10 ~ 55°C
Storage Temp	-40 ~ 80°C
Operation Humidity	5% ~ 95% (Non-Condensing)

MECHANICAL INFORMATION	
Dimension	165(L)*123(W)*205(H) mm
Color	White (can be customized)
Weight	~500g

Signal	Cellular signal Indicator
	5G network Indicator
	4G network Indicator
LAN	LAN Status Indicator
	Wi-Fi Status Indicator
Power	Power supply LED

PACKAGE CONTENTS	
WB550 Device	x 1
Power adaptor	x 1
Quick-Start Guide	x 1

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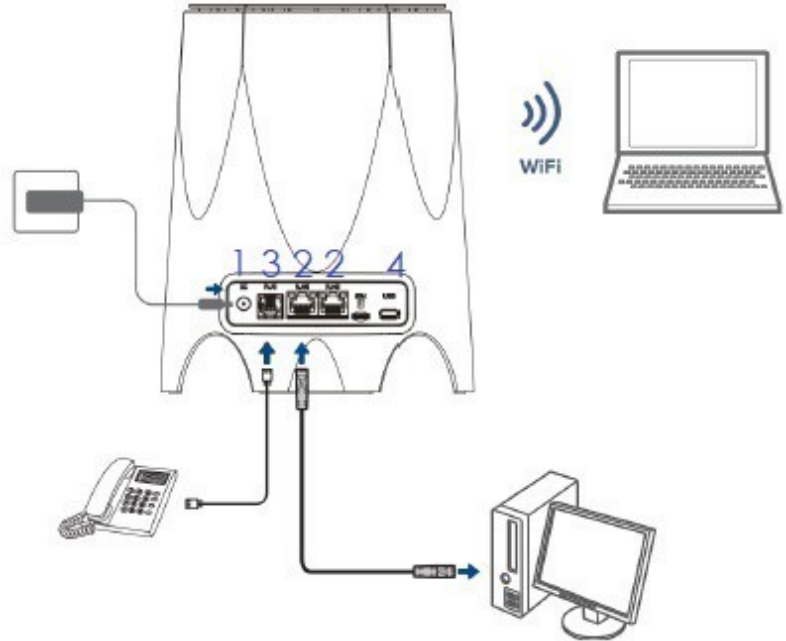
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Model Definition

Model No.	Region	Description
WB550-NA-00	North America	5G Sub-6: n2/n5/n7/n12/n14/n25/n30/n41/n48/n66/n71/n77/n78 LTE FDD: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71 LTE TDD: B41/48 LAA: B46 WCDMA: B2/4/5 Module: Verizon & AT&T Certified

Application Scenario

1. 12V Use this port to connect the Power adapter for power supply.	3. WPS Press this button for 5 seconds to activate WPS feature. This helps connect wireless devices without input the WiFi Key Password.
2. LAN Use this RJ45 port to connect your wired device over Ethernet.	4. USB This is Type C USB Port for Diagnose & Engineering Purpose Only.
5. Power LED Indicates device status.	6. LAN LED Indicates device LAN status.
7. WiFi LED Indicates device WiFi status.	8. Connection LED Indicates device connection status with Network.
9. Signal LED Indicates device connection status with Network.	10. SIM Slot Indicates 2FF SIM Slot to insert U-SIM card.
11. Reset Button Use a pin to push and hold this button for 5 seconds for factory reset	12. Device Label Provides basic information about device like Model name, IMEI, WiFi Details etc.



We remind users here that changes or modifications not explicitly approved by the responsible party may cause users to lose the authority to operate the equipment.

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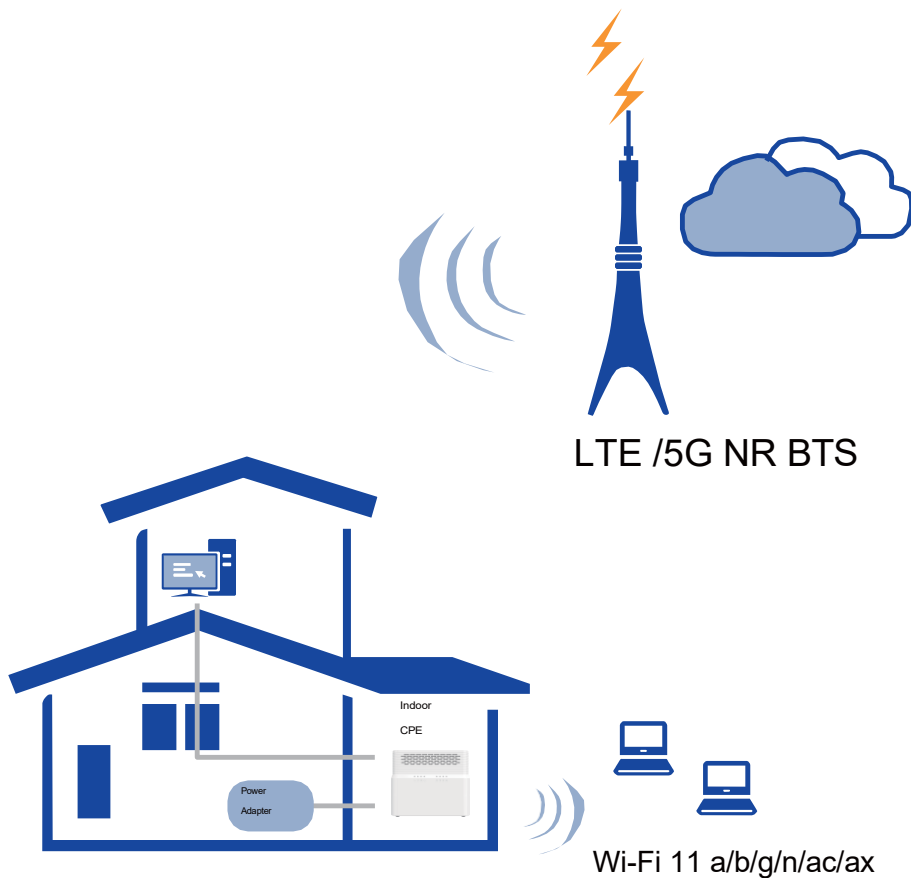
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Introduction

The WB550 is a premium indoor 5G NR CPE, designed for 802.11a/b/ g/n/ac/ax dual band Wi-Fi access. The product provides optimized high throughput data and a wide area coverage network for residential, commercial and enterprise users, supporting multiple services.

Customers enjoy reliable dual-band Wi-Fi AP functions, broadband access and hot-spot Wi-Fi connections with the WB550.



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I/O Panel of Router



LED Panel of Router

Packing List

Make sure you have everything you need to properly configure the device.

		
IDU	Power supply	Ethernet cable

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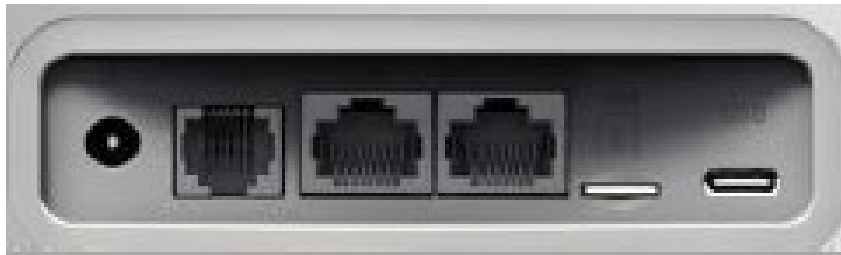
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Configure Hardware

Insert SIM Card

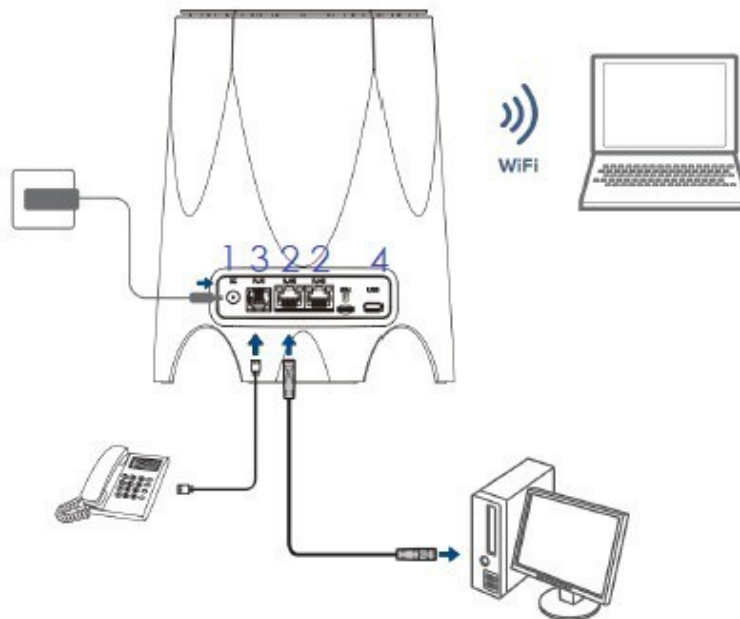
⚠ If you want to remove the SIM card, please lightly press the SIM card, the SIM card will pop out. Make sure the CPE is turned off before you insert or remove your SIM card. Otherwise, the CPE and SIM card may be damaged.

Please insert your SIM card (3FF) as following:



How does it Work

☀ The figure is just for reference only, please connect according to your requirements.



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Step 1 Connect the supplied power adapter to the CPE. **Step 2** Connect other devices.

- You can connect your computer or classic Switch via Ethernet cable to LAN port.
- You can connect your laptop via Wi-Fi.
- You can connect your telephone via TEL port.

 When you are using the CPE, you can adjust the position and direction of CPE to get stronger NR signal, you can judge from the NR signal LED indicators.

LED Indicators

When set up the CP860, you will see the following LED indicators:

Indicator	Status	Description
 POWER	Steady on	Power On
	Off	No Power Supply
 INTERNET	Steady on	Internet Available
	Off	Internet Unavailable
	Blinking (500ms interval)	Searching network of NR
 WiFi	Steady on	WiFi Available
	Off	WiFi unavailable
 VOICE	Steady on	VOICE Available
	Off	VOICE Unavailable
 SIGNAL	Steady on	Display the current LTE network signal, the stronger signal, the more bars on
	Off	No Signal
	Blinking one by one	Firmware upgrade

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Configure The CPE

Login to the Website

Use a browser to access the management web page to configure and manage the CPE.

The following procedure describes how to use a computer running Windows 7 or above version and Internet Explorer to connect to the CPE webpage.

- Step 1** Connect the CPE correctly.
- Step 2** Start Internet Explorer, go to <http://192.168.1.1> in the address bar, and press Enter.
- Step 3** Enter the user name (admin) and password (admin), and click Log In.
You can connect to the management web page after the password is verified.



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Configuration of NR

Step 1 Connect the CPE correctly.

Step 2 Enter the management website.

Step 3 Choose Settings → Network → NRSettings. **Step 4** Set the connection mode and scan mode.

LTE Settings

Settings

Status Connected

Connect Method

Submit

Cancel

Status

DL MCS	0
UL MCS	0
DL Frequency	2679.0 MHz
UL Frequency	2559.0 MHz
Bandwidth	20 MHz
RSSI	-53 dBm
RSRP0	-79 dBm
RSRP1	-77 dBm
RSRQ	-5 dB
SINR	32 dB
TX Power	-55 dBm



The default setting is automatically connection and full band scanning,if you want to connect the LTE network according to your needs,you can set the connection mode as manual,and simply scan a specified band.

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Configuration of Wi-Fi

- Step 1** Connect the CPE correctly.
- Step 2** Enter the management website.
Choose Settings → Wi-Fi → WLAN Settings.
- Step 3** In the General Settings, set Wi-Fi Enable or enable Wi-Fi with the
- Step 4**
- Wi-Fi button.
- Step 5** In the Setting, change the SSID, such as "NR-Router"
To ensure data security, it is recommended that you change
- Step 6**
the Wi-Fi password by default.
- Step 7** Click Submit to save the settings.

WLAN Settings

General Settings

Band	2.4GHz ▼
WLAN	<input checked="" type="checkbox"/> Enable
Mode	802.11b/g/n(Auto) ▼
Channel	Auto ▼
Tx Power	100% ▼

SSID Profile

SSID	MT7603E-8022 *
Maximum number of devices	16 ▼
Hide SSID broadcast	<input type="checkbox"/> Enable
AP isolation	<input type="checkbox"/> Enable
Security	WPA-PSK&WPA2-PSK ▼
WPA encryption	AES(recommended) ▼
Show password	<input type="checkbox"/> Enable

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Troubleshooting

The POWER indicator does not turn on.

- Make sure that the power cable is connected properly and the CPE is powered on.
- Make sure that the power adapter is compatible with the CPE.

Fails to login the web management page.

- Make sure that the CPE is started.
- Verify that the CPE is correctly connected to the computer through Wi-Fi or a network cable.

The CPE fails to search for the wireless network.

- Check that the power adapter is connected properly.
- Check that the CPE is placed in an open area that is far away from obstructions, such as concrete or wooden walls.
- Check that the CPE is placed far away from household electrical appliances that generate strong electromagnetic field, such as micro-wave ovens, refrigerators, and satellite dishes.

The power adapter of the CPE is overheated.

- The CPE will be overheated after being used for a long time. There-fore, power off the CPE when you are not using it.
- Check that the CPE is properly ventilated and shielded from direct sunlight.

The parameters are restored to default values.

- If the CPE is powered off unexpectedly while being configured, the parameters may be restored to the default settings.
- After configuring the parameters, download the configuration file to quickly restore the CPE to the desired settings.



If the problem persists, please contact authorized local service suppliers.

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Product Marketing Name (PMN): ATEL 5G CPE FCC ID: XYO-WB550 IC ID: 20255-WB550

FCC Regulations

ATEL 5G CPE 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 equipment has been tested and found to comply with the limits for a Class B digital device, under 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 by 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 or more 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 RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure compliance requirements, this grant applies to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

RSS-GEN

"This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device." or "Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage; 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement." Déclaration sur l'exposition aux rayonnements RF L'autre utilisé pour l'émetteur doit être installé pour fournir une distance de séparation d'au moins 20 cm de toutes les personnes et ne doit pas être colocalisé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

A . The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure.

B . devices contain security features to protect against modification of software by unauthorized parties the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

ISED RF Radiation Exposure Statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. To comply with ISED RF exposure compliance requirements, this grant applies to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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