5G Residential Gateway User Guide

Version 01

5G Residential Gateway

Federal Communication Commission Interference Statement

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 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 Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the 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.

RF Exposure Statement

To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 89 cm from all persons (indoor), and must not be co-located or operating in conjunction with any other antenna or transmitter.

Important Notice

The user is responsible for determining whether surfaces and installation environment is appropriate. Please remember that many factors influence installation safety. Please follow the user manual. Materials, flatness, cleanliness of surfaces, humidity, wind speed, time and many other factors can affect the adhesion and fixedness of this product. WNC does not guarantee the product can be fixed and will not fall. Given the variety of factors that can affect the adhesion and fixedness, it is essential that the user evaluates the conditions of surfaces and the environment to determine whether they are suitable for installation.

DISCLAIMER

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, WNC MAKES NO OTHER WARRANTIES, EITHER EXPRESS, IMPLIED OR STATUTORY. WNC DISCLAIMS ANY LIABILITY CAUSED BY ANY USER'S NON-COMPLIANCE WITH THE USER MANUAL.

Safety Warnings

Adapter
Do not use any other power adaptor except the one that accompanies this unit or a power adaptor identified in the list below.
Use of another adapter could result in damage to the unit.

The following power adaptor is qualified for use with this WNC 5G Residential Gateway:

This unit must be powered by Delta Electronics, model EPS-72R0 or equivalent UL listed power source rated @ output 12Vdc, Maximum 6A.
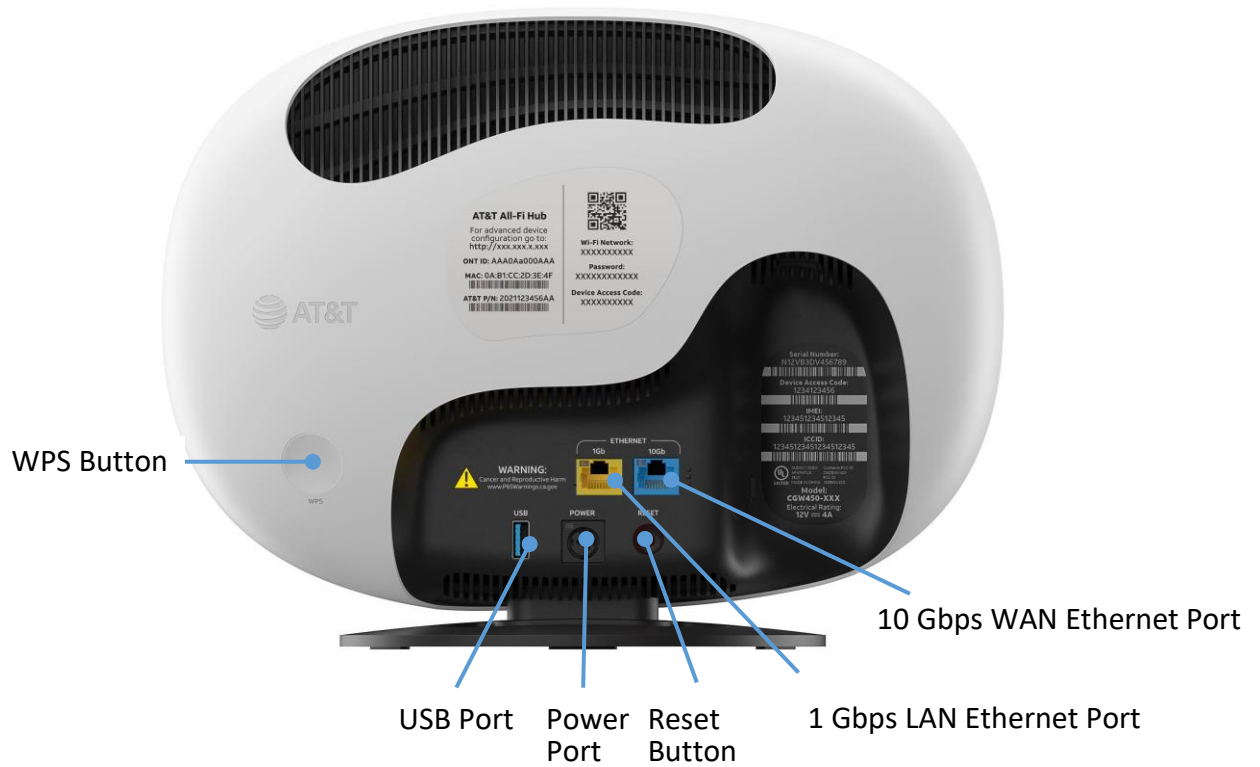
Chapter 1
Introduction

WNC's 5G Residential Gateway provides customers with an improved solution for 5G home service. The innovative design of the 5G Residential Gateway allows customers to connect their favorite devices to 5G networks.

1.1 Unboxing Information

Inside the product package for the 5G Residential Gateway, you should find the following items:

- 5G Residential Gateway × 1
- Power adaptor × 1

1.2   Front and Rear Panel

LED Array

LED Light Pipe

WPS Button

10 Gbps WAN Ethernet Port

USB Port   Power Port   Reset Button   1 Gbps LAN Ethernet Port

Part	Description
LED Light Pipe	The LED light pipe lights up in different ways to indicate the connectivity status of the 5G Residential Gateway.
LED Array	The LED array can show the time and device status notifications
WPS Button	Press this button once to connect the 5G Residential Gateway to the Wi-Fi Extender or Wi-Fi Extender Mini devices via WPS. If the pairing is successful, the LED light pipe will stop blinking blue.
1 Gbps LAN Ethernet Port / 10 Gbps WAN Ethernet Port	Use these ports to connect the 5G Residential Gateway to a PC or switch via an Ethernet cable.
Power Port	Connect the power adaptor to this port to provide power to the 5G Residential Gateway from an electrical outlet.
Reset Button	Reset the device to factory settings by pressing and holding down this button for at least 5 seconds.

Chapter 2
Product Specifications

Model: CGW450-400

Device Manufacturer: Wistron NeWeb Corporation

5GNR Module: IMQC

Module Manufacturer: Wistron NeWeb Corporation

5G	• Network options: Option 3X, 3A (NSA), and Option 2 (SA) • CA configuration: • DL 3CA • UL 2CA • Band support: n2/5/12/30/66/77 • MIMO: • DL (8 Rx, on n77) • DL (4 Rx, on n2/30/66) • DL (2 Rx, on n12/5)
4G	• CA configuration: • DL 2CA, 3CA, 4CA • UL 2CA • Band support: B2/4/5/12/29/30/66 • MIMO: • DL (4x4, on B2/30/66) • DL (2x2, on B5/12/29)
Wi-Fi	• 802.11a/b/g/n/ac/ax • MU-MIMO • 2.4 GHz 4x4/40 MHz • 5 GHz: 4x4/160 MHz
Connectors	• 10 Gbps WAN Ethernet port × 1 • 1 Gbps LAN Ethernet port × 1 • USB 3.2 Type A × 1 • Nano SIM Slot (4FF) × 1
Button	• Reset button × 1

	•	WPS button × 1
LED	•	Signal strength LED Matrix
	•	Status LEDs
Dimensions	•	295 × 112 × 224 mm
Weight	•	2.0 kg
Operating Temperature/Humidity	•	0 °C (32 °F) to 41.7 °C (107.1 °F)
	•	Humidity: Up to 85% (non-condensing)