



BGW720-400 Wi-Fi 7 Residential Gateway User Guide

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 to 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 in 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.

FCC regulations restrict the operation of this device to indoor use only.

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or Communications with unmanned aircraft systems.

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 20 cm from all people (indoors) and must not be co-located or operated in conjunction with any other antenna or transmitter.

This document and the information contained herein is purely for design reference and subject to revision by WNC at any time. Nothing in this document shall be construed as granting any warranty or right to use the material contained herein without WNC's prior express written consent. WNC shall not be liable for any use, application or development derived from the material without such prior express written consent.

Important Notice

The user is responsible for determining whether surfaces and installation environment are 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 adapter except the one that accompanies this unit or a power adapter identified in the list below.

Use of another adapter could result in damage to the unit.

The following power adapter is qualified for use with this BGW720-400 Wi-Fi 7 Residential Gateway:

This unit must be powered by adapter model EPS48R1 series or an equivalent UL-listed power source with a rated output of 12 VDC and a minimum current of 4A.

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1. Introduction

The BGW720-400 Wi-Fi 7 Residential Gateway offers customers an enhanced solution for home connectivity.

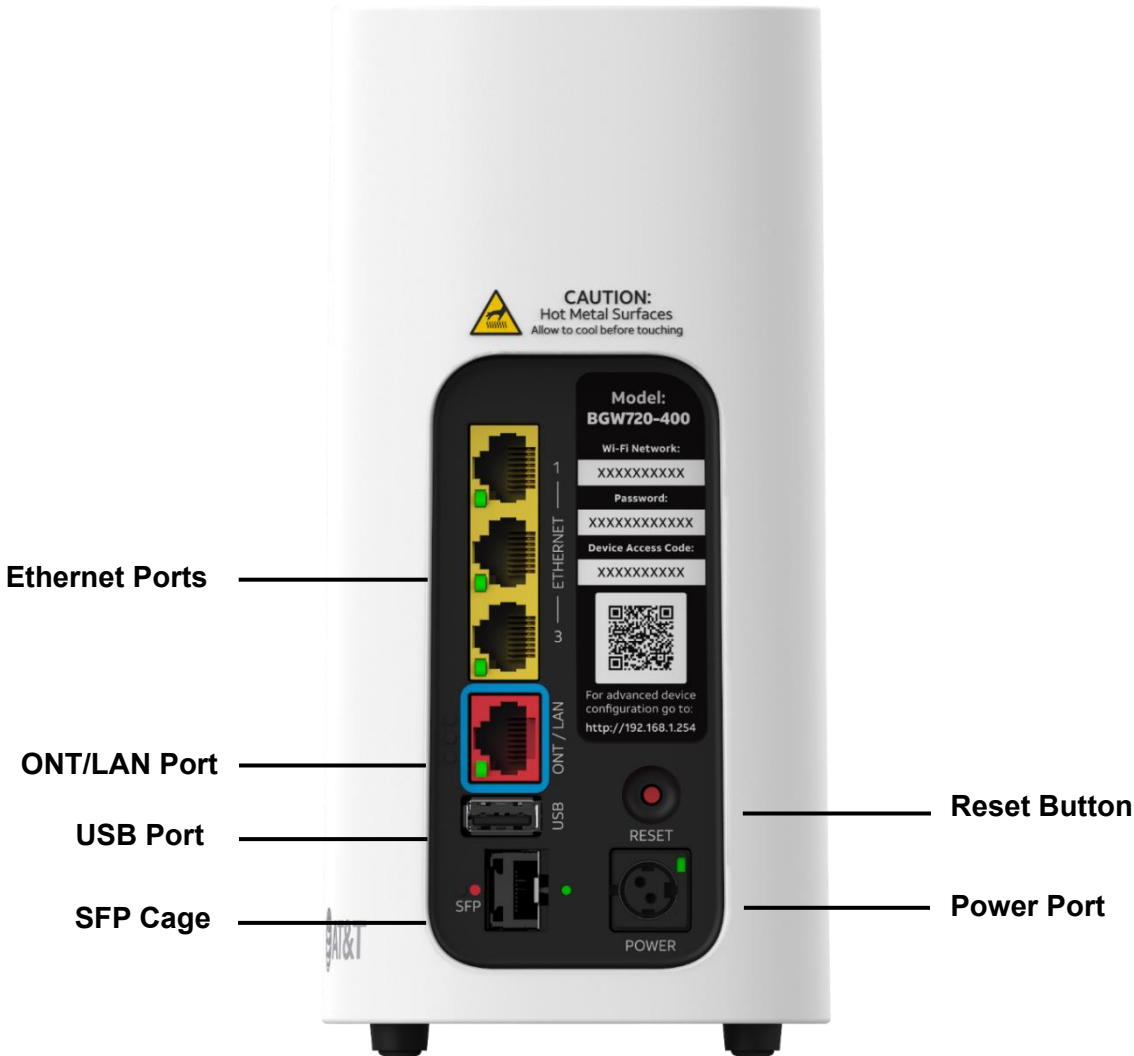
1.1. Unboxing Information

Inside the product package for the BGW720-400 Wi-Fi 7 Residential Gateway, you will find the following items:

- Wi-Fi 7 Residential Gateway × 1
- Power adapter × 1
- Regulatory Sheet × 1

1.2. Front and Rear Panel





Part	Description
Ethernet Ports	Use these ports to connect the Gateway to a PC or switch via an Ethernet cable.
Power Port	Connect the power adapter to this port to provide power to the Gateway from an electrical outlet.
Reset Button	Reset the Gateway to factory settings by pressing and holding down this button for at least 10 seconds.
ONT / LAN Port	Use this port to connect the Gateway to an Optical Network Terminal (ONT).
SFP Cage	Use this port to connect optic modules to the Gateway.
USB Port	Diagnostic port

2. Product Specifications

Wi-Fi	802.11 a/b/g/n/ac/ax/be MU-MIMO 2.4 GHz 4x4/40 MHz 5 GHz: 4x4/160 MHz 6 GHz: 4x4/320 MHz
Connectors	2.5 GbE LAN ports × 3 5 GbE ONT/LAN ports × 1 SFP+ (XGS-PON) × 1 USB 2.0 Type A × 1 Power Jack
Dimensions	180 × 95 × 190 mm
Weight	1.53 kg
Operating Temperature & Humidity	0 °C (32 °F) to 41.7 °C (107.1 °F) Humidity: Up to 85% (non-condensing)

3. Setting up the Gateway

3.1. Installation

To maintain optimal performance and prevent overheating, ensure the gateway has adequate space around it for proper airflow.

3.2. Initial Setup

3.2.1. Connecting the power adapter

To power your gateway:

- Connect the appropriate end of the power adapter cable to the power port on the rear panel of your gateway.
- Connect the power plug end to a suitable power outlet. After your gateway is powered on, the power indicator will remain steady green.

Once the power indicator is steady green, your gateway is powered on and ready for use.

Note: Please use only the power supply that came with your gateway. Using any other power supply may result in electric shock, fire, bodily injury, and/or property damage. If you notice any damage to the power supply or if it needs to be replaced, please contact your service provider to obtain an authorized replacement.

3.2.2. Connecting devices to your gateway

You can connect computers or other suitable electronic devices to your gateway via Ethernet or Wi-Fi.

Connecting devices using wired Ethernet:

- Connect an RJ-45 terminated Ethernet cable to one of the Ethernet ports on the back of your gateway.
- Connect the other end of the Ethernet cable to the Ethernet port on a local computer.

Connecting devices using Wi-Fi

- To add a wireless device to your Gateway, use your smartphone or tablet to scan the QR code on the label on the back of the gateway.
- If your device is unable to scan the QR code, find the **Wi-Fi Name** and **Password** on the back of the gateway and enter them into your device.

Once connected, follow the steps on your device to make changes to the Wi-Fi network.