5G Home Receiver User Guide

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Federal Communication Commission

Interference Statement

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

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

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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 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Warnings

AC adapter
Do not use any other AC adapter except the one that accompanies this unit or an AC adapter identified in the list below.

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

The following AC adapter is qualified for use with this Verizon 5G Home Router: Delta, model ADP-48GR BA or equivalent UL listed power source rated @ output 12V DC, Maximum 4.0A.

Embedded Battery
The following battery is qualified for use with this Verizon 5G Home Receiver: Shenzhen Ri Shengzhi Electronics Technology Co., Ltd, model LV21 (3.6Vdc, 3450mAh, 12.42Wh)

Cradle
1. Cradle (battery pack) should be stored in a cool and dry area with ambient temperatures between -20 ~ 30 °C.
2. Cradle (battery pack) should not be used with any other product except a Verizon 5G Home Receiver device.
3. We recommend charging the battery every six months.

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Chapter 1
Introduction

This chapter includes a list of items included with the Verizon 5G Home Receiver, the minimum system requirements for, and an overview of the receiver's features.

1.1   Unboxing Information

Inside the product package for the Verizon 5G Home Receiver, you should find the following items:

- 5G Home Receiver
- Window brackets × 2
- Window wipes × 2
- AC adapter
- AC cable
- Window wedge with Velcro strips × 2
- Cable clips × 3

1.2   System Requirements

The Verizon 5G Home Receiver requires the following systems and software:

- Smart devices with Wi-Fi and Bluetooth capability

1.3 Key Features

- World's first 5GNR home broadband receiver (n260 and n261)
- Self-installation: No professional installation necessary
- Supports Wi-Fi 6 and 2.5 Gbps Ethernet
- Aesthetically designed

1.4 5G Home Receiver

5G Connection LED (Front LED)

Installation Mode

- Solid white: Receiver is on.
- Blinking white: Receiver is activating, or is in the 5G installation process.
- Fast blinking white: Reboot triggered. The LED blinks for about 2 seconds before turning off.

Regular Usage Mode

- Solid white: Receiver is paired to the router. After receiver is paired to the router, the LED stays solid white for 30 seconds, then turns off until the status changes.
- Fast blinking white: Firmware update is in progress.
- Hard blinking red: Receiver has some hardware or software issues, e.g., the ODU is broken, firmware is faulty, or 4G connection has been lost.
- No LED indication: Receiver is getting a 5G signal and is connected to the router (The pair button is solid blue). When installation is complete, there will be no LED indication for 5G signal strength.

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1. Reset Button

<u>Installation Mode</u>

• No function

<u>Regular Usage Mode</u>

• Press and hold for 3 seconds to reboot the receiver.
• Press and hold for 20 seconds to restore to factory default settings.

2. Pair Button (with LED indicator)

<u>Installation Mode</u>

• Press and hold for 3 seconds to switch to Regular Usage Mode.
• Solid red: Receiver is on.

<u>Regular Usage Mode</u>

• Single press to start WPS pairing with the router.
• Press and hold for 3 seconds to switch to Installation Mode.
• Alternating blue & red: WPS pairing is triggered.
• Solid blue: Receiver is getting a 5G signal and is connected to the router.
• Solid red: Receiver is not paired to the router, or has lost connection to the router.

3. Audible Buzzer
• Success sound to indicate 5G connectivity and pairing
• Error sound to indicate system or device errors
• Click sound for button press feedback

4. Power Jack

The power jack connects the IDU of the receiver to an electrical outlet via the power cord.

5. USB Port (Type C)

This USB port connects the IDU to the ODU of the receiver to provide communication.

6. Ethernet Port

The Ethernet port enables you to connect devices to a router via Ethernet cable (CAT5e or better).

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1.5   The Indoor Cradle of the 5G Home Receiver

<u>When the cradle is connected to a power supply:</u>

• Solid green: Battery is fully charged.

• Solid red: Battery is not fully charged.

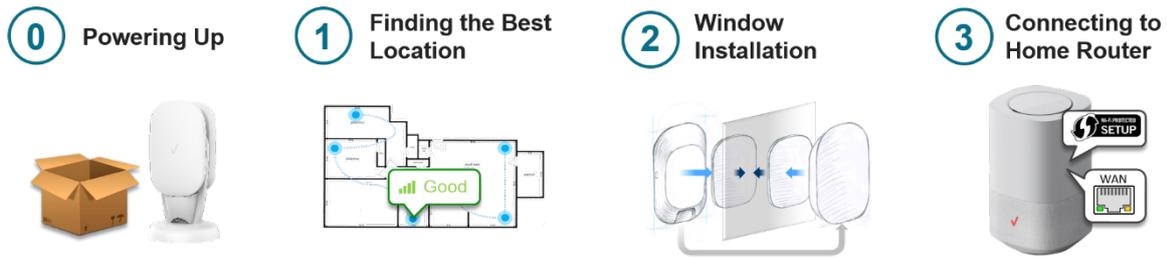<u>When the cradle is not connected to a power supply:</u>

• Solid green: Receiver is powered on, and ample battery life remains. If the battery is nearly discharged, there will be no LED indication.
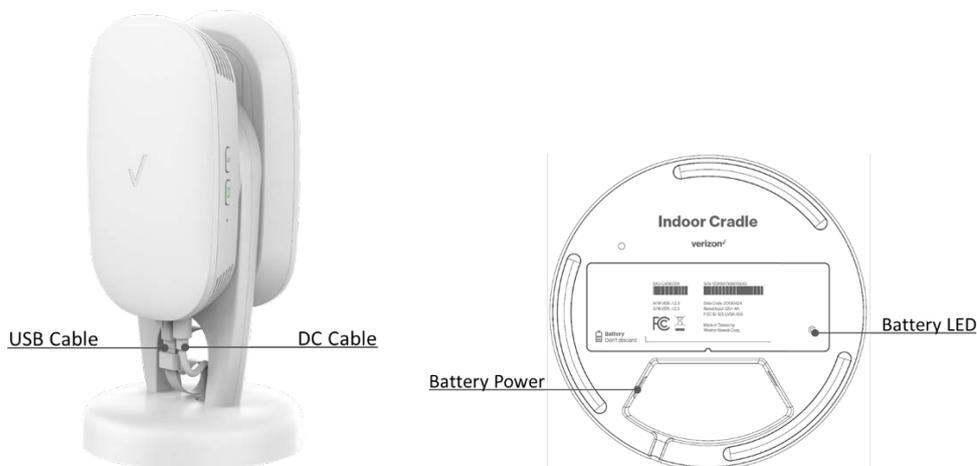
Chapter 2
Connecting the 5G Home Receiver

This section describes how to install the 5G Home Receiver.

2.1   Installation Overview

| ⓪ Powering Up | ① Finding the Best Location | ② Window Installation | ③ Connecting to Home Router |

2.2   Powering Up

USB Cable   DC Cable

Indoor Cradle

Battery Power

Battery LED

1. The 5G Home Receiver consists of three components - ODU (outdoor receiver), IDU (indoor receiver) and the cradle on which the ODU and the IDU are mounted.
2. Remove the decoration cover and make sure that the USB cable and the DC cable are properly plugged in.

    Indoor Receiver Face this inside (Towards you)

3. Please hold/place the cradle in such a way that the IDU always faces inside (towards you).
4. Press the battery power button under the cradle to enable battery power, and then check the battery LED on the bottom of the cradle.

5. If the battery LED is not green, unplug the cradle's DC cable. Plug in the AC adapter to charge the battery till the LED turns green, then unplug the AC adapter and plug the DC cable back to the cradle.

2.3   Finding the Best Location

1. Receiver will enter the installation mode by default.
2. Download the *My Verizon* app, then connect your phone to the receiver via Bluetooth.
3. At the chosen location, please hold/place the cradle in such a way that the IDU always faces inside (towards you).

4. Follow the instructions in the App to find the best location. Please refer to section 3 if you cannot achieve a good 5G signal.

2.4   Window Installation

1. Use the window wipes provided to clean both sides of the window at the chosen location.
2. Remove the cable covers from the front and back of the cradle.
3. Unplug the power and USB cable from the IDU, then unload the ODU and IDU of the receiver.
4. Mount the IDU and the ODU at the window.
5. Please contact your local dealer if the window bracket is defective and won't adhere properly.

   WARNING! Magnets in the window brackets can be harmful to pacemaker wearers and others with medical implants. Keep magnetic media such as computer disks, credit cards and tapes away to avoid damage. Failure to heed this warning can result in serious injury.

2.5   Connecting to the Verizon 5G Home Router
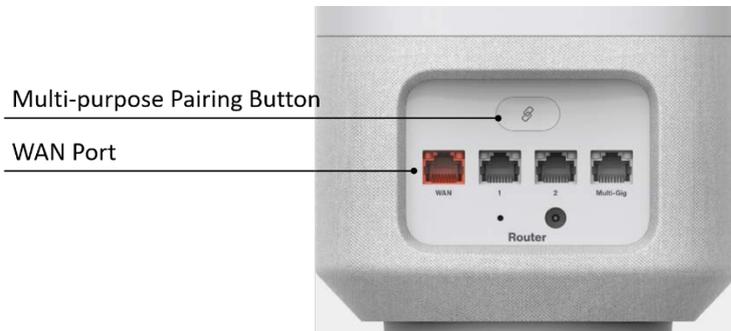
Connecting via Wi-Fi

1.   Press the pairing button on the receiver once to start WPS pairing with the router.
2.   Press and hold down the multi-purpose Pairing Button on the Verizon 5G Home Router. The router will start WPS pairing as a client.

Note: Please note that the Wi-Fi connection between the receiver and the router is only possible with the Verizon 5G Home Router. If you are using your own router, please connect it with an Ethernet cable.

Connecting via an Ethernet cable

1.   Connect an Ethernet cable between the IDU and the WAN port of the router.

Chapter 3
Product Specifications

Cradle

- Battery: 3.6V 3450mAh

IDU

- Wi-Fi: 5G 802.11 ax MIMO 4 × 4. WPS, WPA, WPA2
- Ethernet: CAT6 2.5Gbps
- Memory: DDR3: 512MB, NAND: 256MB
- Embedded Antenna x 4
- 5G Wi-Fi 4x4

ODU

- 5G: 5G MIMO 2 × 2, Support N260, N261.
- LTE: LTE CAT16, Band 2/4/5/13/66
- Supports downlink inter and intra 2-Carrier Aggregation
- Memory: RAM- LPDDR4 6GB
- Flash- UFS: 64GB
- Embedded Antenna: 5G mmW NR module x 3 (1 x 4 antenna array in each module), LTE x 4, BLE x 1

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Mechanical Specifications

5G Home Receiver

Cradle

- LED (Dual LED) x 1
- DC jack x 1
- Battery button x 1
- Cable with DC plug x 1

IDU

- LED for 5G signal quality indication × 1 (Tri LED)
- LED for router status indication × 1 (Dual LED)
- Buzzer x 1
- 2.5G Ethernet RJ-45 port with LED × 1
- USB type C connector x 1
- Reset button × 1
- WPS button × 1
- DC Jack × 1

ODU

- USB cable x 1
- SIM x 1

Window Bracket Tape

- Material: Silicon rubber with micro adhesive elements
- Area: 40x12mm, 10 pieces (4,800 mm2 in total)
- Thickness: 0.8mm
- Temperature range: -50◦C to +80◦C
- Sustain weight*: 5 kg (Measurement made on a clean, dry and glossy glass window)
- Waterproof

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Environmental

- Power: LVSKIDU: 12V/4A
- Operating Ambient Temperature: 5°C to 40°C (IDU); -30°C to 55°C (ODU)
- Operation Relative Humidity: 5% to 90% non-condensing
- Storage Temperature: –45°C to 70°C
- Shipping and Storage Relative Humidity: 5% to 85%