**deco**™ | Deco BE85
The Ultimate 10 Gbps Connectivity

# Wi-Fi 7

# User Guide

## BE19000 Whole Home
## Mesh Wi-Fi 7 System

tp-link

# Contents

# About This Guide

This guide provides a brief introduction to BE19000 Whole Home Mesh Wi-Fi 7 System and regulatory information.

Features available in Deco may vary by model and software version. Deco availability may also vary by region or ISP. All images, steps, and descriptions in this guide are only examples and may not reflect your actual Deco experience.

## Conventions

In this guide, the following conventions are used:

| Convention | Description |
|---|---|
| Deco | Stands for Deco Whole Home Mesh Wi-Fi System/ Unit. |
| Underline | Hyperlinks are in teal and underlined. You can click to redirect to a website or a specific section. |
| Teal | Key information appears in teal, including management page text such as menus, items, buttons and so on. |
| ▉Note: | Ignoring this type of note might result in a malfunction or damage to the device. |
| ⌗Tips: | Indicates important information that helps you make better use of your device. |

## More Info

- Specific product information can be found on the product page at https://www.tp-link.com.
- A Technical Community is provided for you to discuss our products at https://community.tp-link.com.
- Our Technical Support contact information can be found at the Help center of the Deco app and the Contact Technical Support page at https://www.tp-link.com/support.

## Speed/Coverage/Device Quantity Disclaimer

Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage, and quantity of connected devices are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

## MU-MIMO Disclaimer

Use of MU-MIMO requires clients to also support MU-MIMO.

## IoT Compatibility Disclaimer

IoT compatibility refers only to smart devices that can be controlled via the Deco app. Other wireless devices can still connect to Deco for normal Wi-Fi use.

## Seamless Roaming Disclaimer

Clients need to support 802.11k/v/r and may require additional set up. Performance may vary depending on the client device.

## HomeShield Disclaimer

HomeShield includes the Free Basic Plan. Fees apply for the Pro Plan. Visit tp-link.com/homeshield for more information.

# Appearance

Each Deco has an LED that changes color according to its status, a WPS button, two 2.5 Gbps WAN/LAN ports, a 10 Gbps WAN/LAN port, a 10 Gbps RJ45/SFP+ WAN/LAN Combo port, a USB 3.0 port, a power slot, and a Reset button.

See the explanation below:

*Tip: The product label can be found at the bottom of the product.*

**Pulse Yellow:**

Deco is resetting.

**Solid Yellow:**

Deco is starting up.

**Pulse Blue:**

Deco is ready for setup.

**Solid Blue:**

Deco is setting up.

**Pulse Green:**

Deco is upgrading firmware.

**Solid Green:**

Deco is all set up and connected.

**Pulse Red:**

The satellite Deco is disconnected from the main Deco.

**Solid Red:**

Deco has an issue.
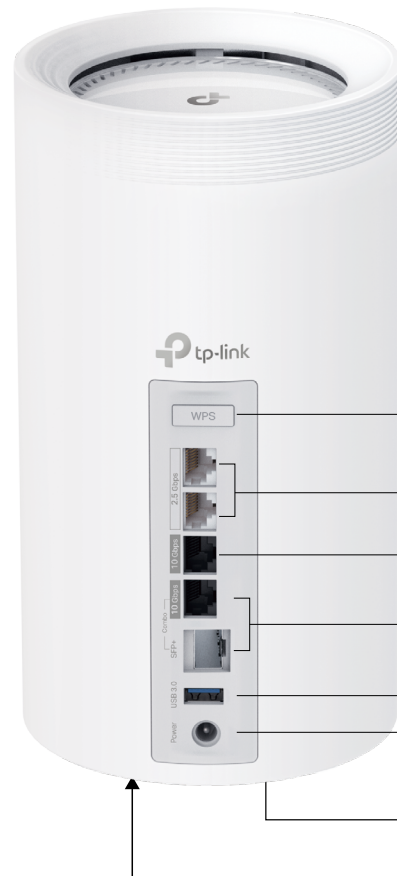
**WPS** Button
Press this WPS button, and immediately press the WPS button on your client device to start the WPS process.

**2× 2.5 Gbps** WAN/LAN Ports
For connecting Deco to your modem, the Ethernet outlet, or for other internet services.

**10 Gbps** WAN/LAN Ports
For connecting Deco to your modem, the Ethernet outlet, or for other internet services.

**10 Gbps** RJ45/SFP+ WAN/LAN Combo Port
Use Deco's Combo pair. The Combo pair includes an Ethernet port and an SFP+ port. Only one port in the pair can be used at a time

**USB 3.0** Port
For connecting a USB storage device to Deco.

**Power** Slot
For connecting Deco to the power socket via the provided power adapter.

**Reset** Button
Press for 1 second and release to reset Deco to factory default settings. The light changing from pulsing yellow to solid yellow indicated a successful reset.

# Set Up Your Deco

First let's start by setting up the Deco network. Get the TP-Link Deco app for iOS or Android, then follow the app to walk through the setup.

## 1. Get the Deco app

Scan the QR code below or go to Google Play or the App Store to download the Deco app. Install the app on your Android or iOS smartphone or tablet.
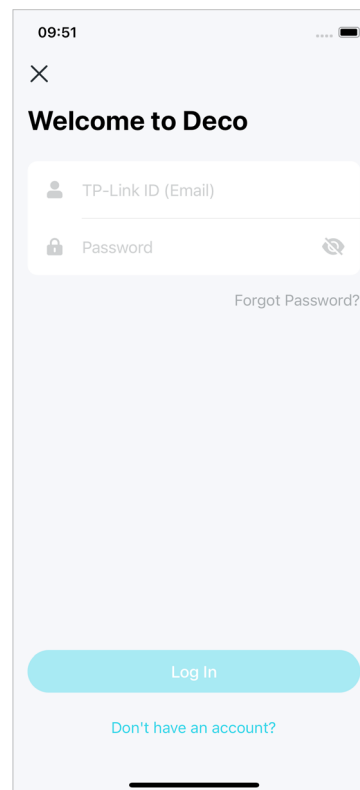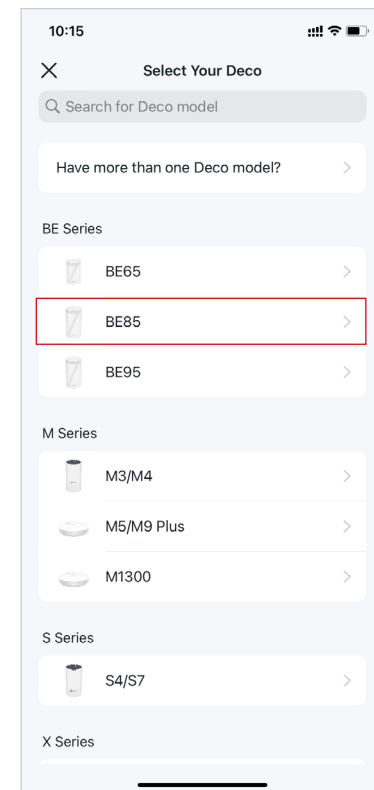
**or**

## 2. Log in or sign up with TP-Link ID

Open the app and log in with your TP-Link ID. If you don't have a TP-Link ID, create one first.

🔖 Note: If you forgot your login password, tap Forgot Password?. The app will help you reset your password.

```
09:51
✕
Welcome to Deco

👤  TP-Link ID (Email)

🔒  Password                    👁‍🗨

                    Forgot Password?


            Log In

        Don't have an account?
```
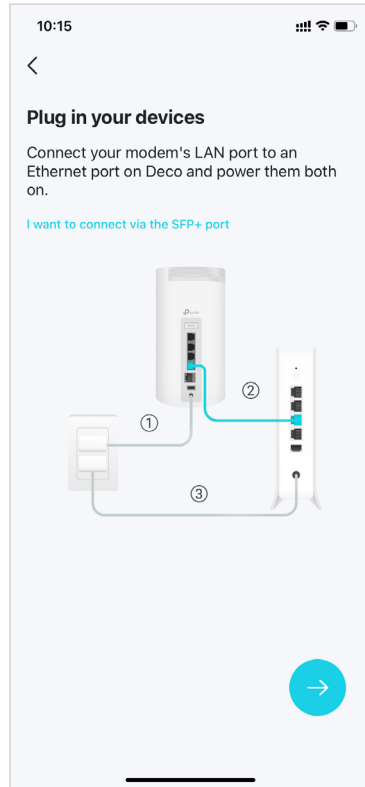
## 3. Select your Deco model

Search for and select your Deco model. If you have more than one Deco model, tap the question below the search box to check how to maximize the overall network.

```
10:15
✕        Select Your Deco
🔍 Search for Deco model

    Have more than one Deco model?   >

BE Series

    📶  BE65                          >
    📶  BE85                          >
    📶  BE95                          >

M Series

    M3/M4                            >
    M5/M9 Plus                       >
    M1300                            >

S Series

    S4/S7                            >

X Series
```
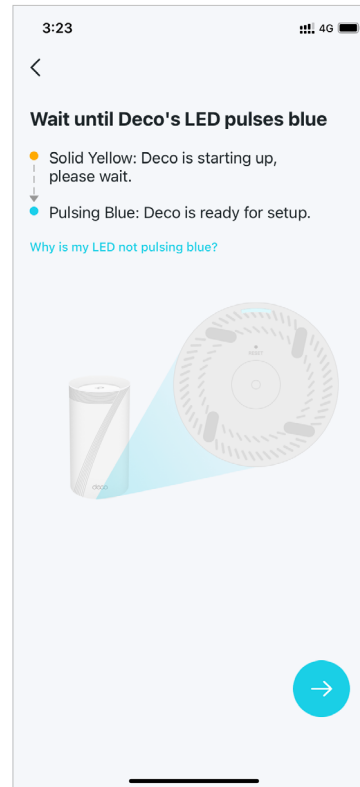
## 4. Plug in your Deco

Power off your modem. Connect your Deco to the modem and power them both on.

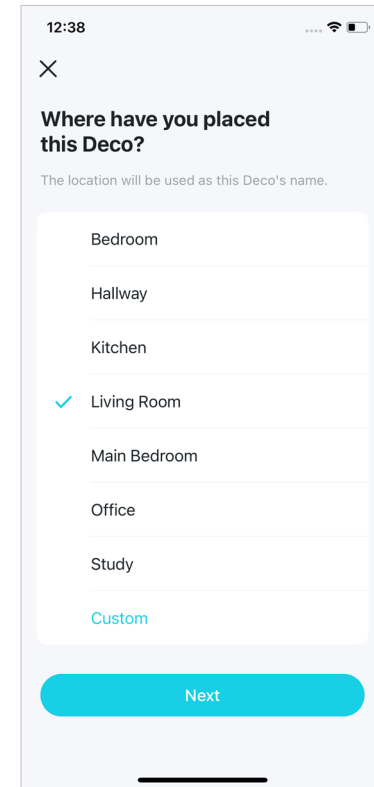If you don't have a modem, connect your Deco directly to the Ethernet outlet.



10:15

**Plug in your devices**

Connect your modem's LAN port to an Ethernet port on Deco and power them both on.

I want to connect via the SFP+ port

① ② ③

## 5. Wait until Deco's LED pulses blue

Wait until your Deco's LED pulses blue, then your phone/tablet will connect to the Deco's default Wi-Fi automatically.



3:23                    4G

**Wait until Deco's LED pulses blue**

● Solid Yellow: Deco is starting up, please wait.

● Pulsing Blue: Deco is ready for setup.

Why is my LED not pulsing blue?

## 6. Specify your Deco's location

Select or custom a location for your Deco. The location will be used as the name of your Deco.



12:38

**Where have you placed this Deco?**

The location will be used as this Deco's name.

Bedroom

Hallway

Kitchen

✓  Living Room

Main Bedroom

Office

Study

Custom

Next

4

## 7. Connect your Deco to the internet

Select the internet connection type and enter the information. If you are not sure, contact your internet service provider.

12:38

Connect your Deco to the internet

Enter the information provided by your ISP (internet service provider). If you are unsure, contact your ISP.

Internet Connection Type
Dynamic IP

IPTV/VLAN Settings          Off

Need to change MAC address?

Next

## 8. Create your Wi-Fi network

Set a network name and a password. These will be the name and password you use to connect your devices to Wi-Fi.

12:39

Create your Wi-Fi Network

This will be the name and password you'll use to access your network. Your password must be at least 8 characters.

Network Name

Password

We recommend using a combination of letters, numbers, and symbols for your password.

Next

## 9. Create your MLO network

Set a network name and a password. The MLO network enables Wi-Fi 7 clients to connect to multiple bands simultaneously.

3:29

Create Your MLO Network

An MLO (Multi-Link Operation) network enables Wi-Fi 7 clients to connect to multiple bands simultaneously. This increases network speed and reduces latency.
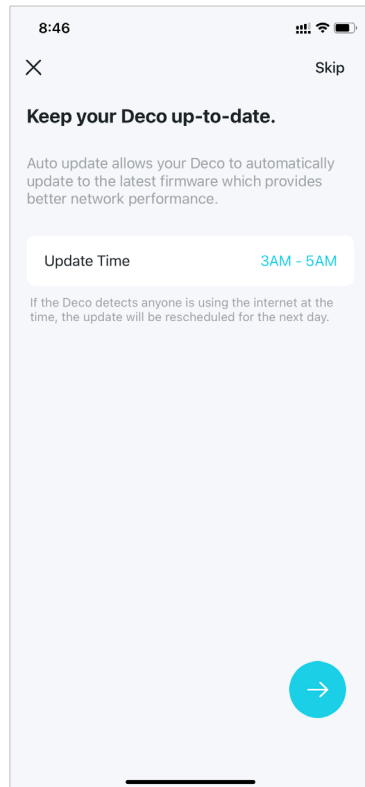
What's an MLO network?

Deco_MLO

If you want to connect to the 6 GHz network, please connect your 6 GHz clients to the MLO network.
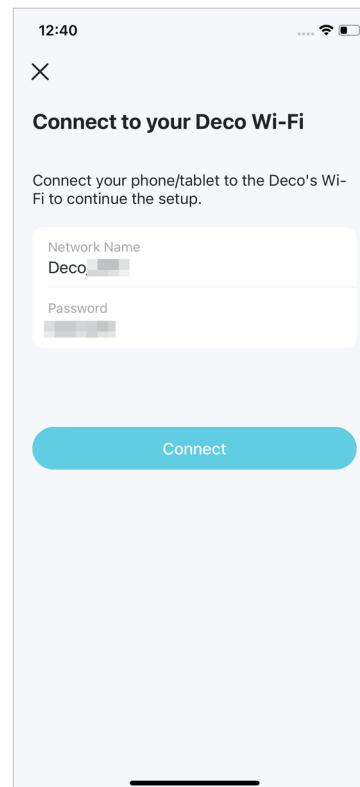
Next

5

## 10. Keep your Deco up-to-date

Set auto update time. This allows your Deco to automatically update to the latest firmware which provides better network experience.
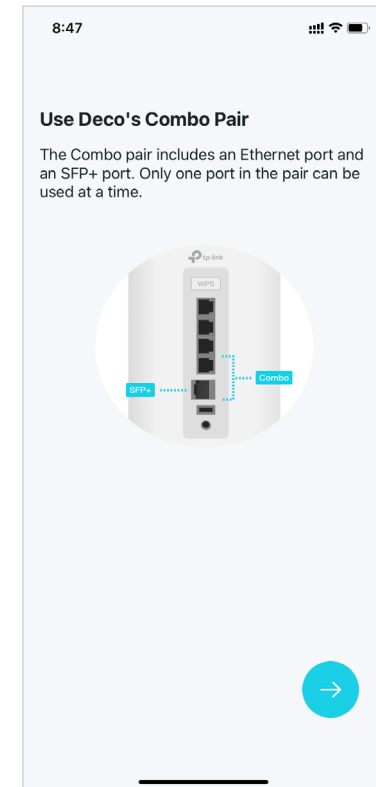


## 11. Connect to your Wi-Fi network

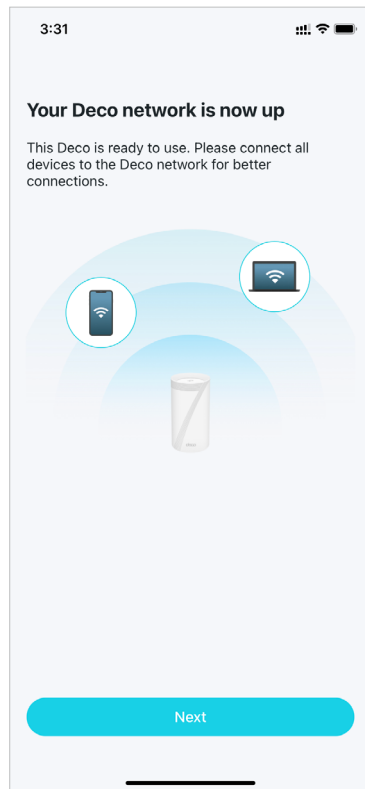Connect your phone/tablet to the Deco's Wi-Fi.



## 12. Use Deco's Combo Pair

The Combo pair includes an Ethernet port and an SFP+ port. Only one port in the pair can be used at a time.
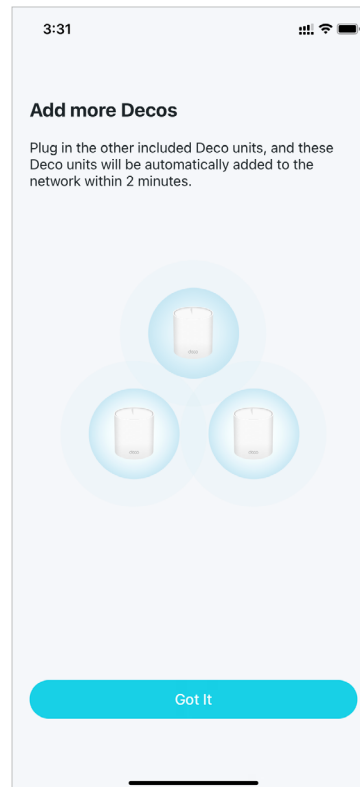
## 13. Setup complete

Your Deco network is now up. You can connect your devices to the Deco network. Plug in the other included Decos, and they will automatically join the network within 2 minutes.

## 14. Add more Decos

Plug in the other included Decos, and they will automatically join the network within 2 minutes.



3:31

**Your Deco network is now up**

This Deco is ready to use. Please connect all devices to the Deco network for better connections.

Next



3:31

**Add more Decos**

Plug in the other included Deco units, and these Deco units will be automatically added to the network within 2 minutes.

Got It

7

# Troubleshooting

Solutions to common problems during setup or use are provided here for reference. Follow the steps and the provided link below to diagnose and solve problems you might experience with your Deco.

If problems still exist, contact us: https://www.tp-link.com/support

**Q1. What should I do if I fail to configure the main Deco and get stuck on "We couldn't find Deco"?**

Refer to the guide https://www.tp-link.com/support/faq/2239/ or follow the video https://youtu.be/2HYuEYS9XJM

**Q2. What should I do if I fail to configure the satellite Deco and get stuck on "We couldn't find another Deco"?**

Refer to the guide https://www.tp-link.com/support/faq/1447/ or follow the video https://youtu.be/iVgDzoo16T4

**Q3. What should I do if I fail to configure the main Deco and get stuck on "Testing Internet Connection"?**

Refer to the guide https://www.tp-link.com/support/faq/2239/

Refer to the video https://youtu.be/OSUrGdWH-i0

**Q4. What should I do if my wireless devices cannot connect to Deco?**

Refer to the guide https://www.tp-link.com/support/faq/2718/

**Q5. What should I do if Deco suddenly lost internet access?**

Refer to the guide https://www.tp-link.com/support/faq/2428/

**Q6. How can I find a suitable spot for my Deco?**

Refer to the guide https://www.tp-link.com//support/faq/1446/

**Q7. What can I do if the Deco app isn't working properly?**

Refer to the guide https://www.tp-link.com/support/faq/1456/

# Authentication

**CE Mark Warning**

CE

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

**OPERATING FREQUENCY(the maximum transmitted power)**

2400MHz—2483.5MHz (20dBm)

5150MHz—5250MHz (23dBm)

5250MHz—5350MHz (23dBm)

5470MHz—5725MHz (23dBm)

6105MHz—6425MHz (23dBm)

**Frequency band 5150 - 5250 MHz:**

Indoor use: Inside buildings only. Installations and use inside road vehicles and train carriages are not permitted. Limited outdoor use: If used outdoors, equipment shall not be attached to a fixed installation or to the external body of road vehicles, a fixed infrastructure or a fixed outdoor antenna. Use by unmanned aircraft systems (UAS) is limited to within the 5170 - 5250 MHz band.

**Frequency band: 5250 - 5350 MHz:**

Indoor use: Inside buildings only. Installations and use in road vehicles, trains and aircraft are not permitted. Outdoor use is not permitted.

Frequency band: 5470 - 5725 MHz:

Installations and use in road vehicles, trains and aircraft and use for unmanned aircraft systems (UAS) are not permitted.

## EU Declaration of Conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011 /65/EU and (EU) 2015/863.

The original EU Declaration of Conformity may be found at https://www.tp-link.com/en/support/ce/

## RF Exposure Information

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The device complies with RF specifications when the device used at 20 cm from your body.

## National restrictions

Attention: This device may only be used indoors in all EU member states and EFTA countries, and Northern Ireland.

| AT | BE | BG | CH | CY | CZ | DE | DK |
|----|----|----|----|----|----|----|----|
| EE | EL | ES | FI | FR | HR | HU | IE |
| IS | IT | LI | LT | LU | LV | MT | NL |
| NO | PL | PT | RO | SE | SI | SK | UK(NI) |

## UKCA Mark

UK
CA

## UK Declaration of Conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017.

The original UK Declaration of Conformity may be found at https://www.tp-link.com/support/ukca/

**FCC Compliance Information Statement**

FC

**Product Name:** I.T.E POWER SUPPLY

**Model Number:** T150500-2-DT / S065PQ1200500

**Responsible party:**

**TP-Link USA Corporation**

Address: 10 Mauchly, Irvine, CA 92618

Website: http://www.tp-link.com/us/

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

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.

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.

2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC regulations restrict 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 10000 feet. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

We, TP-Link USA Corporation, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2023-04-14

## National restrictions

Attention: This device may only be used indoors in Great Britain.
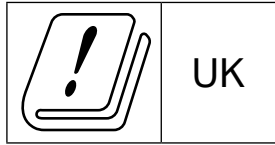


## Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

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, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

## Caution:

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;

DFS (Dynamic Frequency Selection) products that operate in the bands 5250- 5350 MHz, 5470-5600MHz, and 5650-5725MHz.

ISED regulations restrict 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 10000 feet. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

## Avertissement:

Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Les produits utilisant la technique d'atténuation DFS (sélection dynamique des fréquences) sur les bandes 5250- 5350 MHz, 5470-5600MHz et 5650-5725MHz.

Les réglementations ISED limitent le fonctionnement de cet appareil à une utilisation en intérieur uniquement. L'utilisation de cet appareil est interdite sur les plates-formes pétrolières, les voitures, les trains, les bateaux et les avions, sauf que l'utilisation de cet appareil est autorisée dans les avions long courrier en vol au-dessus de 10 000 pieds. L'exploitation d'émetteurs dans la bande 5,925-7,125 GHz est interdite pour le contrôle ou les communications avec des systèmes d'avions sans pilote.

## Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

ISED regulations restrict 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 10000 feet. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

Les réglementations ISED limitent le fonctionnement de cet appareil à une utilisation en intérieur uniquement. L'utilisation de cet appareil est interdite sur les plates-formes pétrolières, les voitures, les trains, les bateaux et les avions, sauf que l'utilisation de cet appareil est autorisée dans les avions long courrier en vol au-dessus de 10000 pieds. L'exploitation d'émetteurs dans la bande 5,925-7,125 GHz est interdite pour le contrôle ou les communications avec des systèmes d'avions sans pilote.

## Industry Canada Statement

CAN ICES-3 (B)/NMB-3(B)
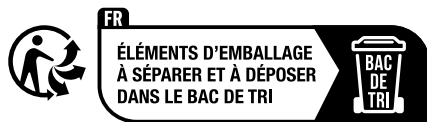
## Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

Safety Information

- Keep the device away from water, fire, humidity or hot environments.

- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.

- Do not use damaged charger or USB cable to charge the device.

- Do not use any other chargers than those recommended.

- Do not use the device where wireless devices are not allowed.

- Adapter shall be installed near the equipment and shall be easily accessible.

- Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

- Operating Temperature: 0℃~40℃ (32℉~104℉)

- This product uses radios and other components that emit electromagnetic fields. Electromagnetic fields and magnets may interfere with pacemakers and other implanted medical devices. Always keep the product and its power adapter more than 15 cm (6 inches) away from any pacemakers or other implanted medical devices. If you suspect your product is interfering with your pacemaker or any other implanted medical device, turn off your product and consult your physician for information specific to your medical device.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

## Explanation of the symbols on the product label

| Symbol | Explanation |
|---|---|
| === | DC Voltage |
| ∼ | Alternating current |
| ⚠ | Caution |
| 📖 | Operator's manual |
| ⌂ | Indoor use only |
| ⬦─©─⊕ | Polarity of d.c. power connector |
| Ⓥ Ⅰ | Energy efficiency marking |
| ▢ | Class II equipment |
| 🗑 | RECYCLING<br><br>This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.<br><br>User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment. |