

# User Guide

## AX1800 Whole Home Mesh Wi-Fi System Deco X20



# Contents

|                         |    |
|-------------------------|----|
| About This Guide .....  | 1  |
| Appearance .....        | 2  |
| Set Up Your Deco .....  | 3  |
| Dashboard .....         | 5  |
| Wi-Fi Settings .....    | 6  |
| Parental Controls ..... | 7  |
| Advanced Features ..... | 8  |
| Update Decos .....      | 12 |
| Managers .....          | 13 |
| Authentication .....    | 14 |

# About This Guide

This guide provides a brief introduction to Deco Whole Home Mesh Wi-Fi System and the Deco app, as well as regulatory information.

Please note that features of Deco may vary slightly depending on the model and software version you have, and on your location, language and internet service provider. All images, parameters and descriptions documented in this guide are used for demonstration only.

## Conventions

In this guide, the following conventions are used:

| Convention       | Description                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------|
| Deco             | Stands for Deco Whole Home Mesh Wi-Fi System/Unit.                                                       |
| <u>Underline</u> | 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

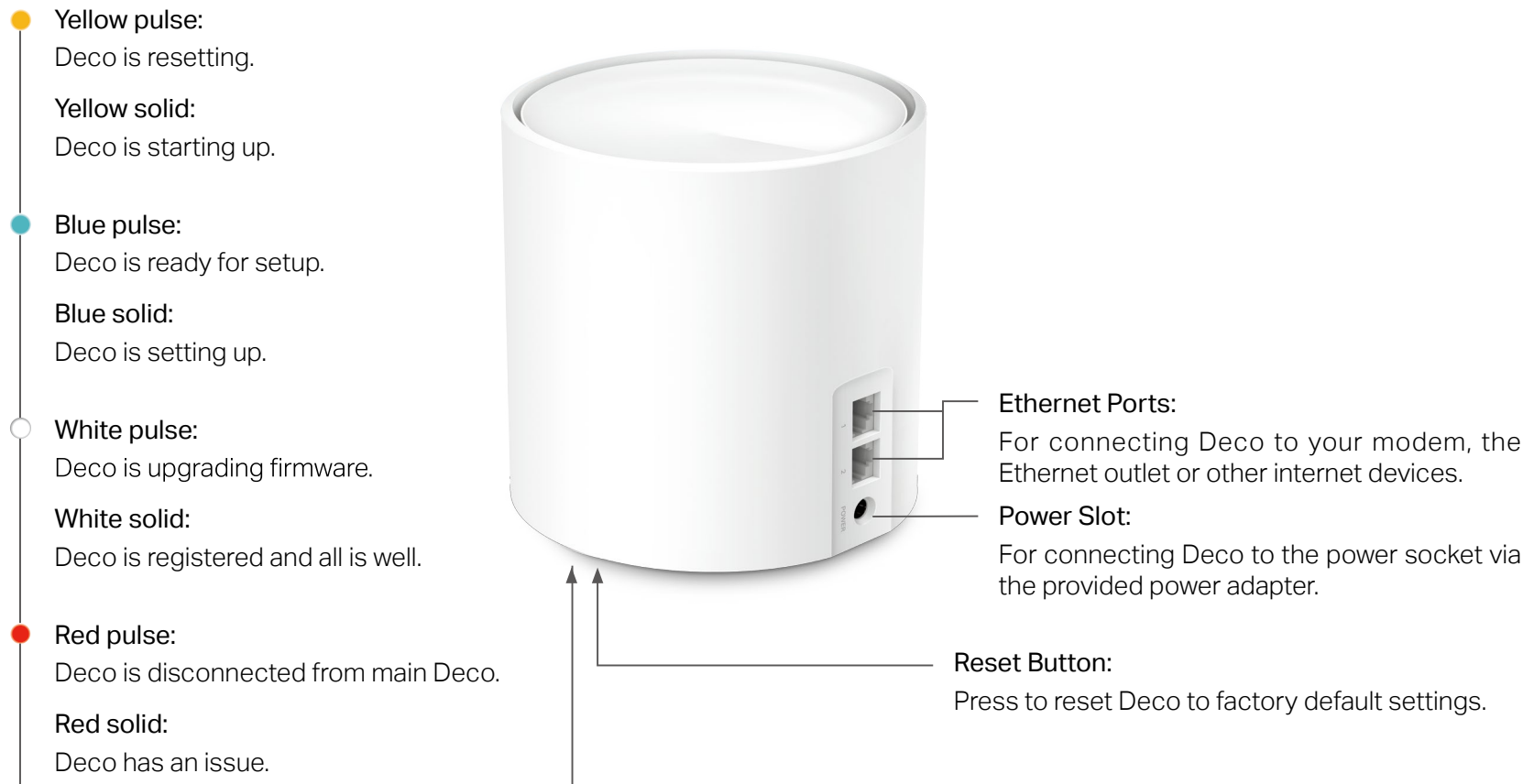
Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range, coverage, and maximum quantity of connected devices are based on test results under normal usage conditions. Actual wireless data throughput, wireless coverage, and quantity of connected devices are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection quality, and client condition.

## MU-MIMO Disclaimer

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

# Appearance

Each Deco has an LED that changes color according to its status, two RJ-45 Ethernet ports, a power slot, and a Reset button. See the explanation below:



# Set Up Your Deco

Follow the steps below to set up your Deco Whole Home Mesh Wi-Fi System.

## 1. Download and install the Deco app

Scan the QR code below or go to Google Play or the Apple App Store to download the Deco app.

Install the app on your Android or iOS smartphone or tablet.



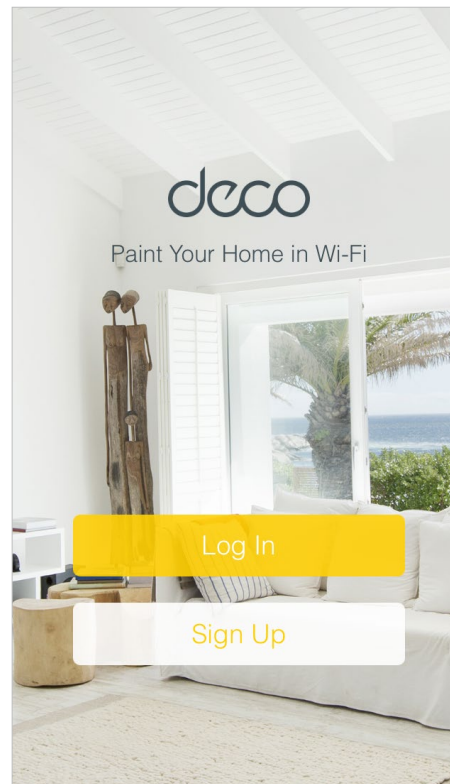
or



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

Open the app. Use your TP-Link ID to log in.

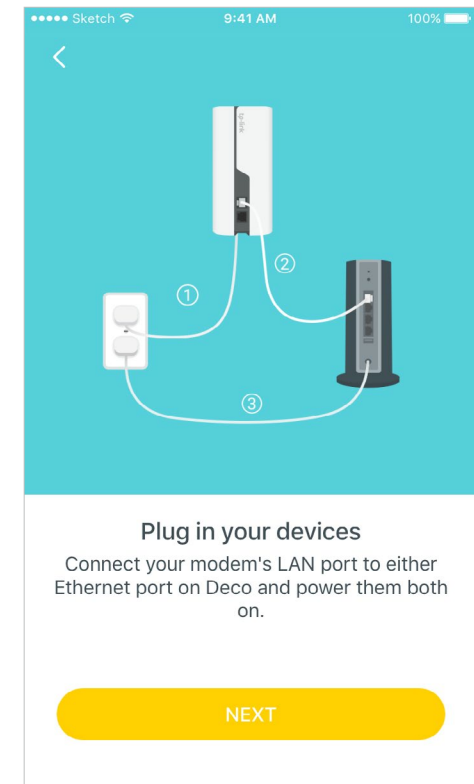
If you don't have a TP-Link ID, tap Sign Up. The Deco app will guide you through the rest.



## 3. Connect Deco to your modem

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

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



#### 4. Select a location

Select a location for this Deco. If its location is not listed, you can create a new one by choosing Custom.

Where have you placed this Deco?

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

Bedroom ☐

Hallway ☐

Kitchen ☐

Living Room ☐

Master Bedroom ☐

Office ☐

Study ☐

#### 5. 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.

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

NEXT

#### 6. Add more Decos

You can add more Decos to expand Wi-Fi coverage. The app will guide you through the process of adding more Decos one by one.

Complete.

You can now connect your devices to this network:  
MyWiFi

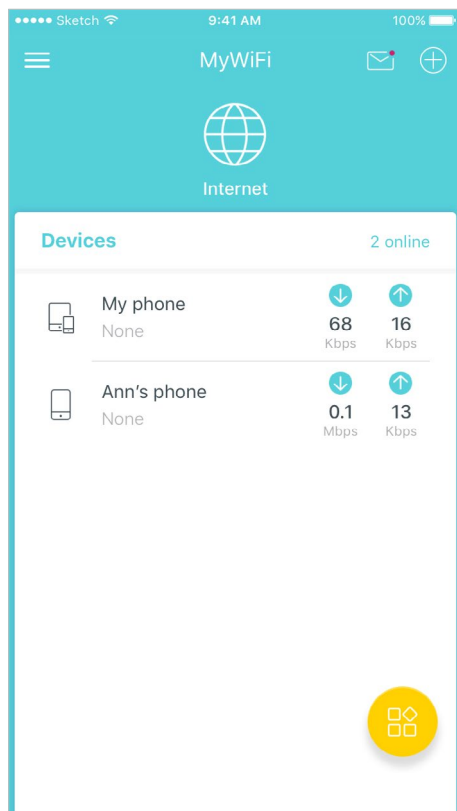
ADD ANOTHER DECO

I'M DONE FOR NOW

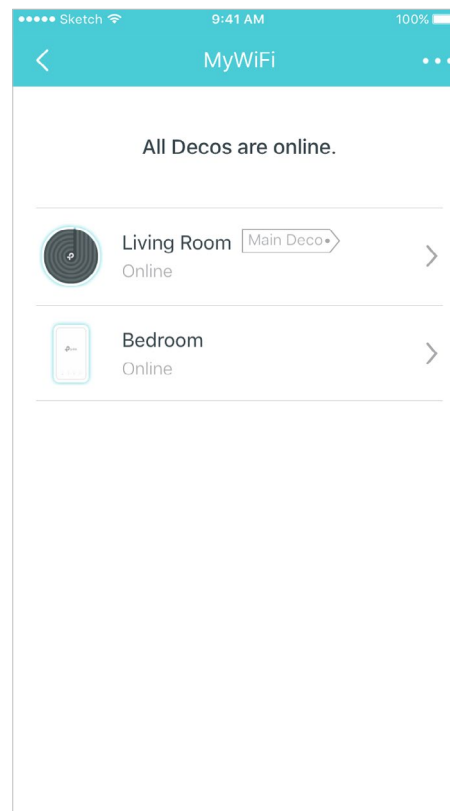
# Dashboard

After you successfully set up your Deco network, you will see the dashboard of the Deco app. Here you can view the connected devices and their internet speeds, tap the  (Internet) icon to check the working status of all Decos, and tap the  icon to display more features.

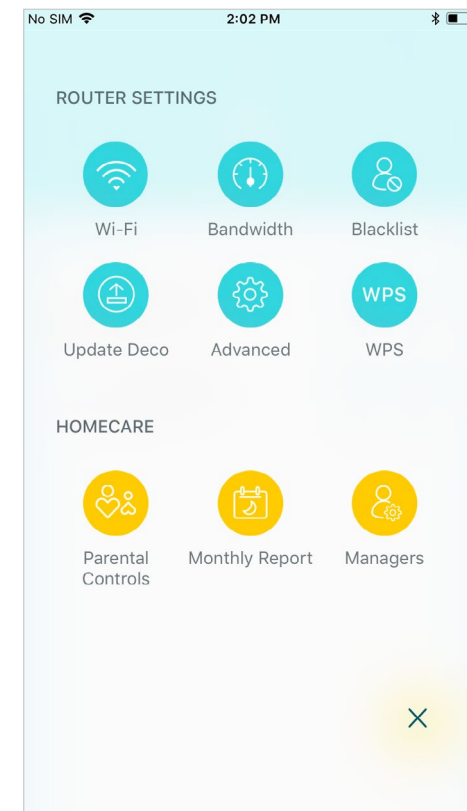
View connected devices



Check the working status of all Decos



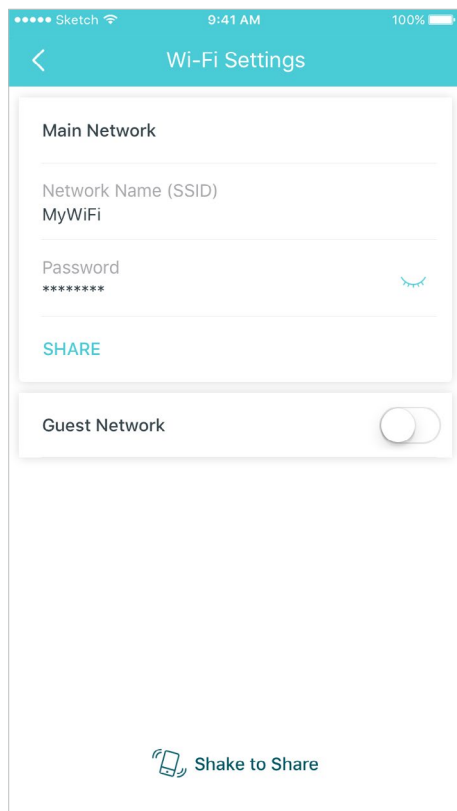
Display more features



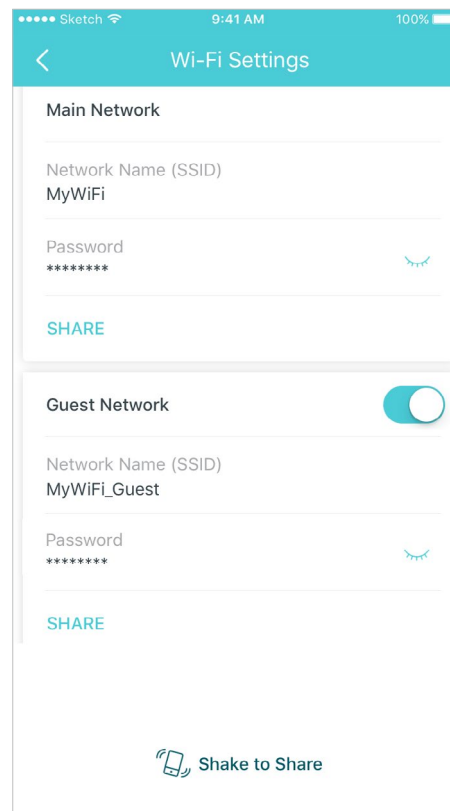
# Wi-Fi Settings

You can change the network name and password of your main network, create a separate network for guests, and shake your device to share the network details easily with family and friends.

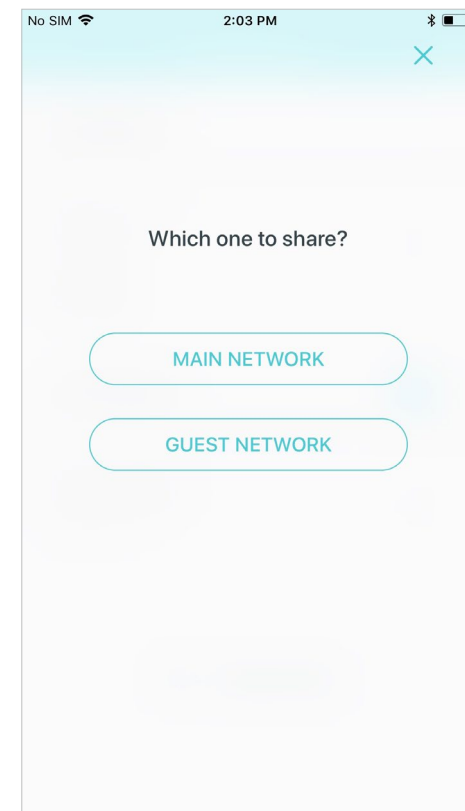
Change main network settings



Create a guest network



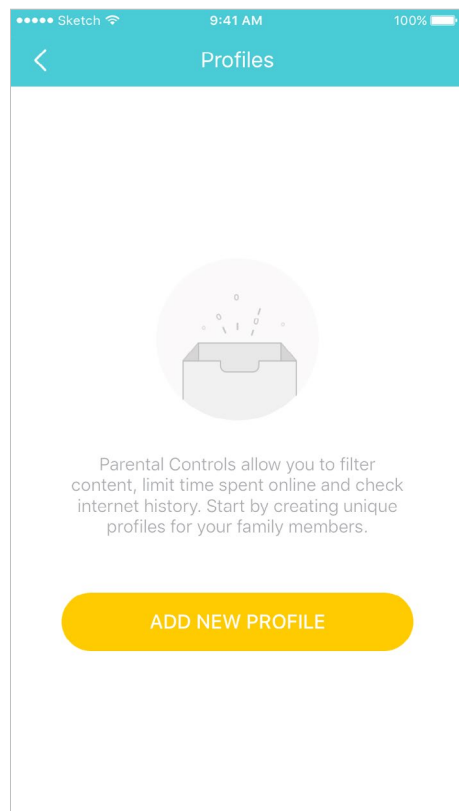
Shake to share Wi-Fi



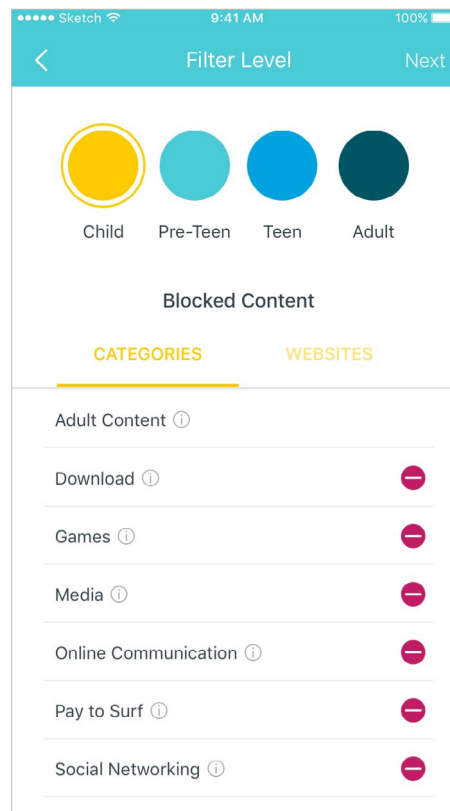
# Parental Controls

Create profiles for family members and specify the devices that belong to them. Set individualized parental controls including when and for how long each person can access the internet. Block inappropriate content and pause the internet if necessary.

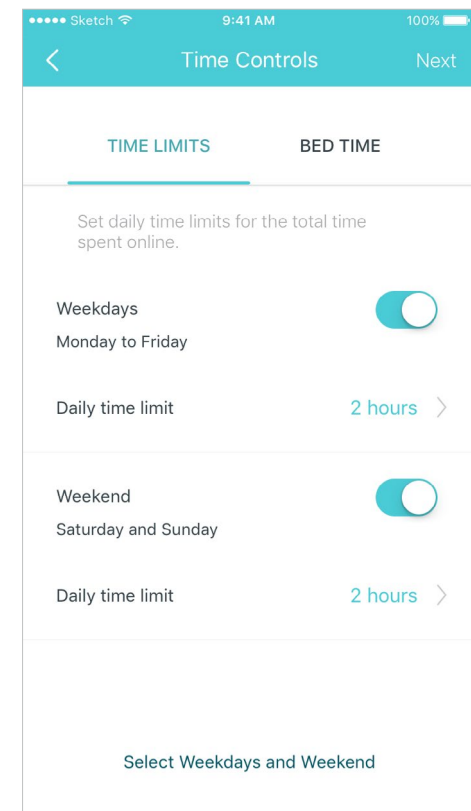
Parental Controls



Select filter level



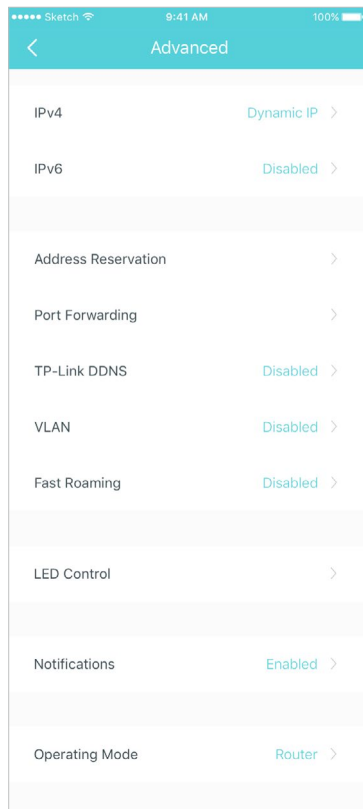
Set time controls



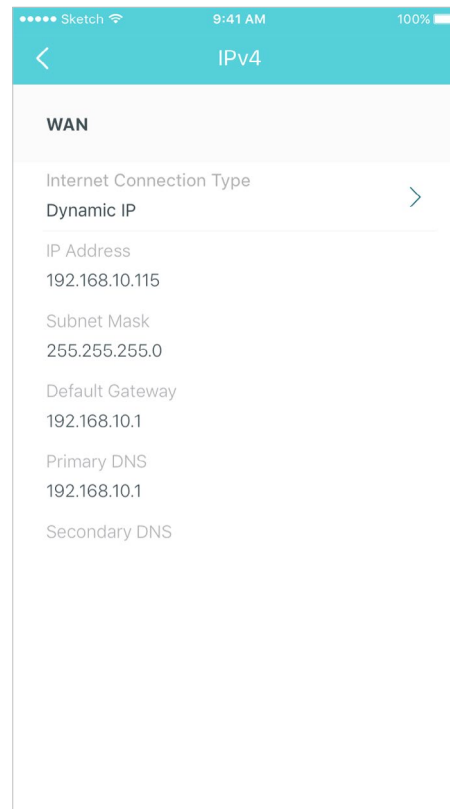
# Advanced Features

Additional features are available under the Advanced menu. You can configure and change settings according to your needs.

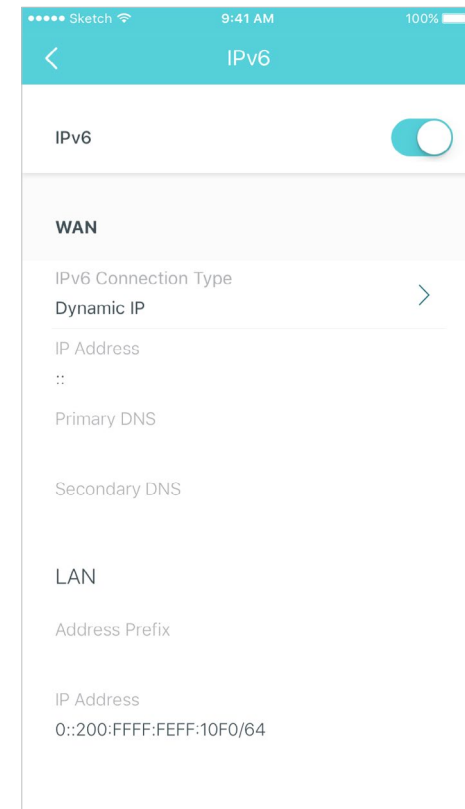
## Advanced features



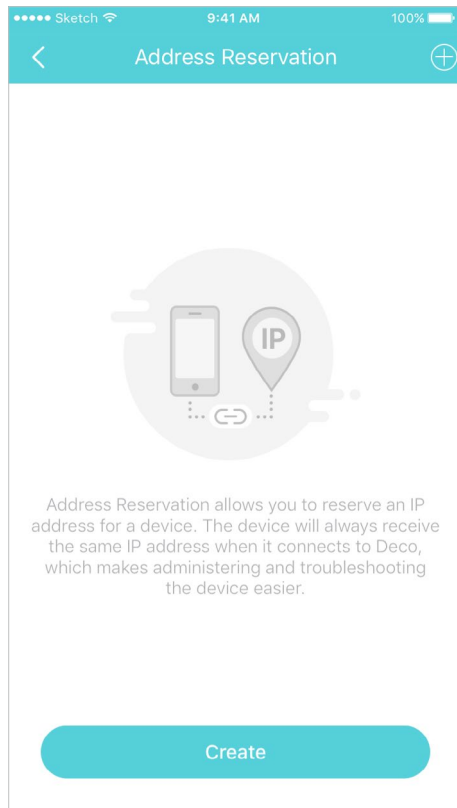
## Change IPv4 settings



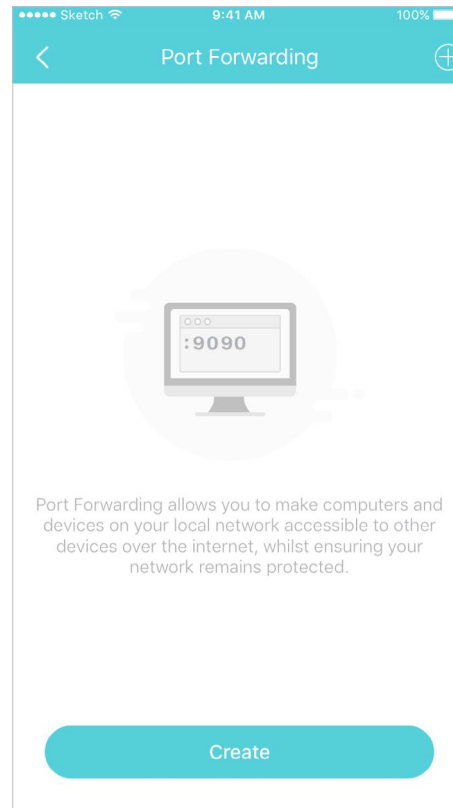
## Change IPv6 settings



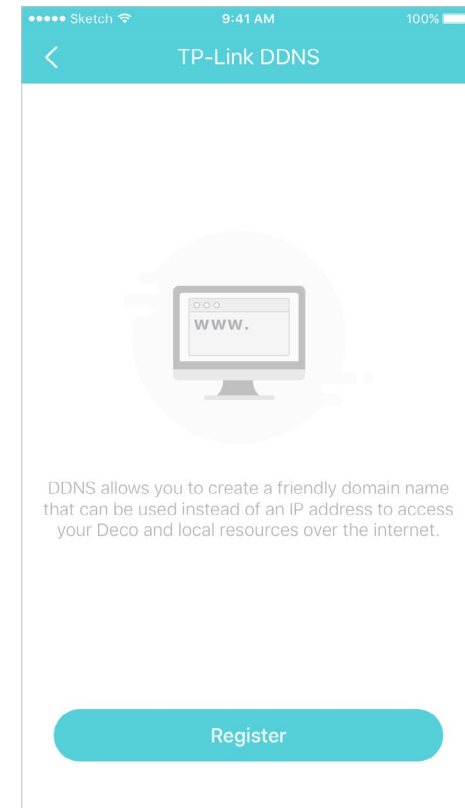
## Reserve IP addresses for specific devices



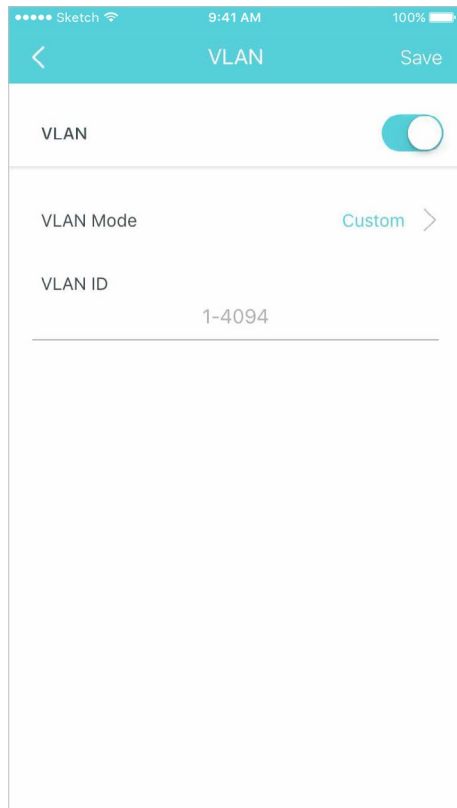
## Set up port forwarding rules



## Register a TP-Link DDNS domain name



## Change VLAN settings



Sketch 9:41 AM 100%

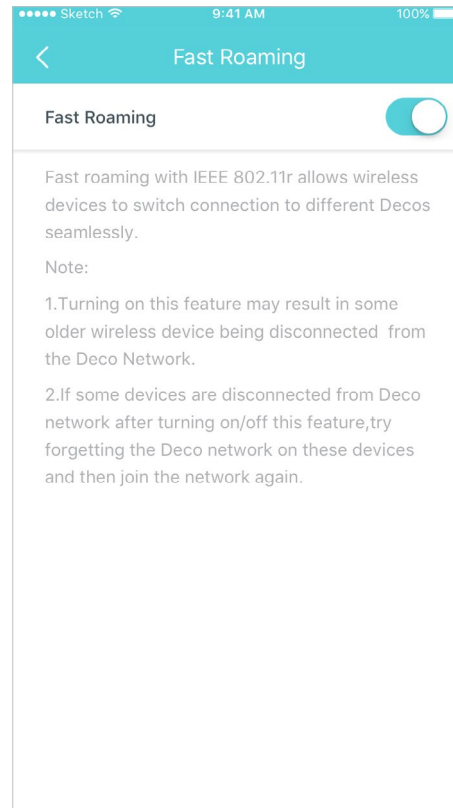
< VLAN Save

VLAN ☒

VLAN Mode Custom >

VLAN ID 1-4094

## Enable fast roaming for wireless devices



Sketch 9:41 AM 100%

< Fast Roaming

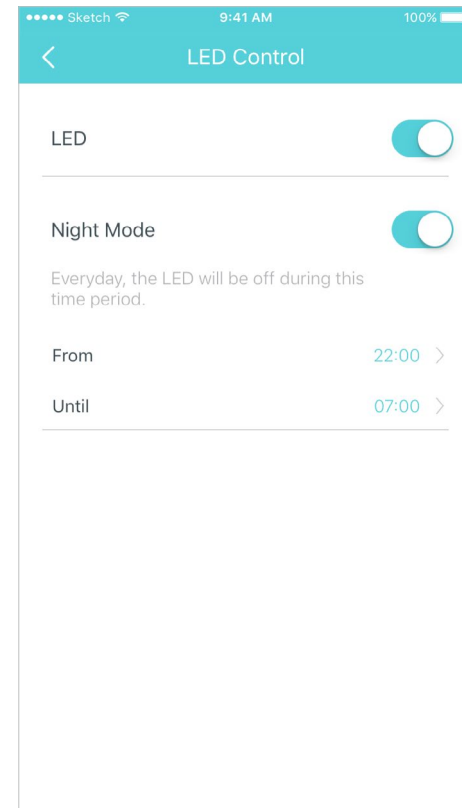
Fast Roaming ☒

Fast roaming with IEEE 802.11r allows wireless devices to switch connection to different Decos seamlessly.

Note:

- 1.Turning on this feature may result in some older wireless device being disconnected from the Deco Network.
- 2.If some devices are disconnected from Deco network after turning on/off this feature,try forgetting the Deco network on these devices and then join the network again.

## Control the LED on Deco



Sketch 9:41 AM 100%

< LED Control

LED ☒

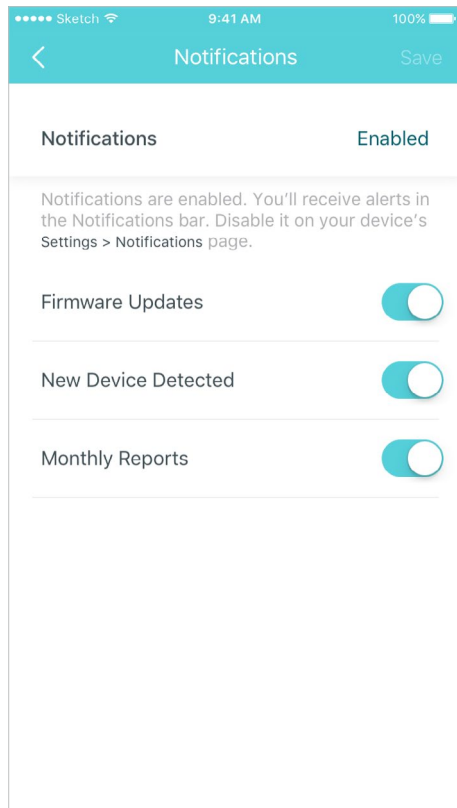
Night Mode ☒

Everyday, the LED will be off during this time period.

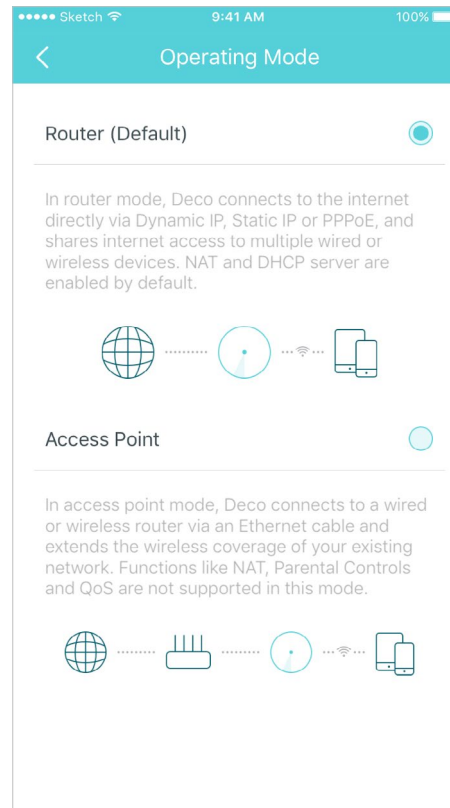
From 22:00 >

Until 07:00 >

## Turn on/off notifications



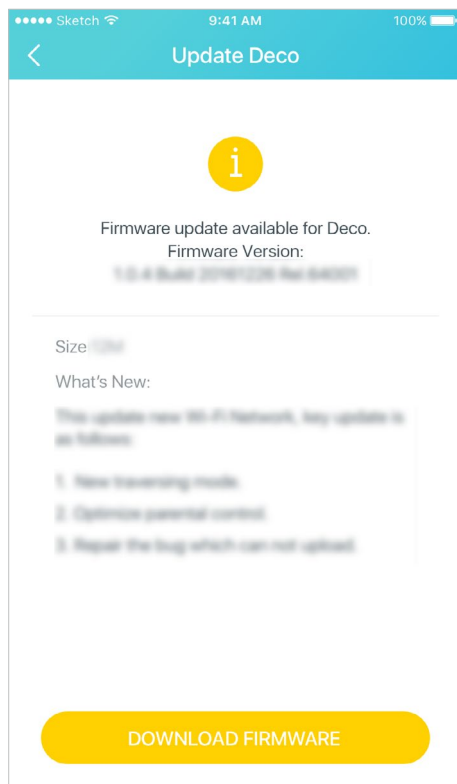
## Change the operating mode



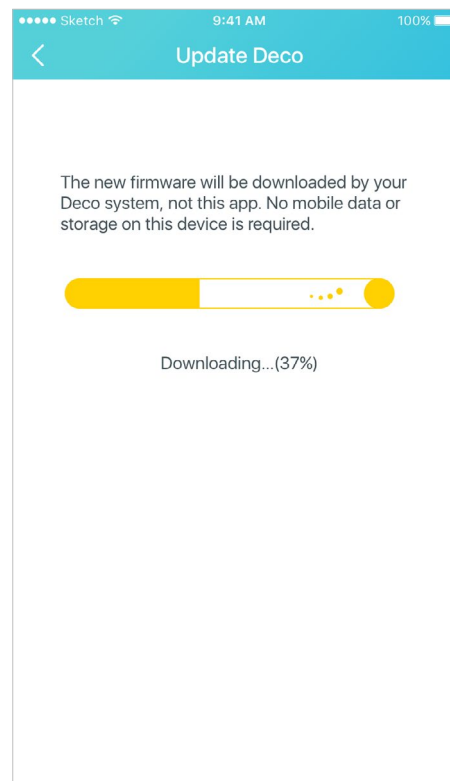
# Update Decos

TP-Link is dedicated to improving product features and providing a better customer experience. Update Deco when prompted in the Deco app.

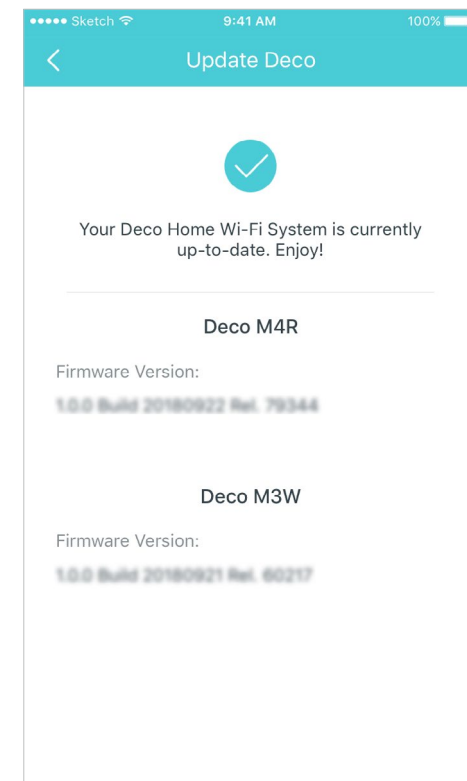
## Update Available



## Updating Deco



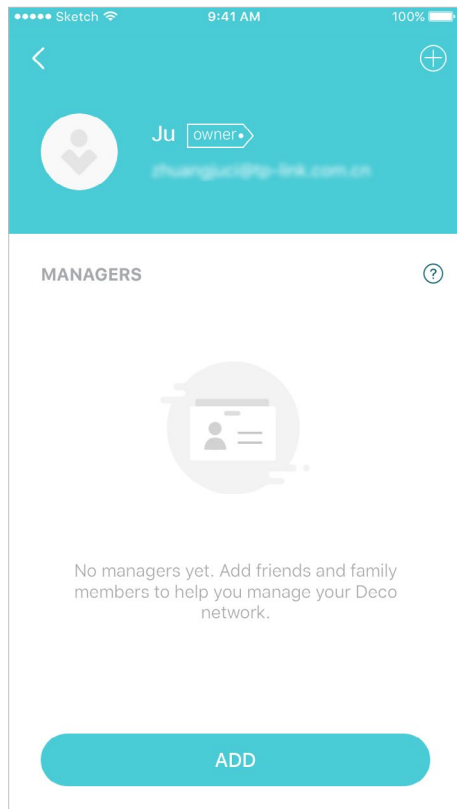
## Up-to-date



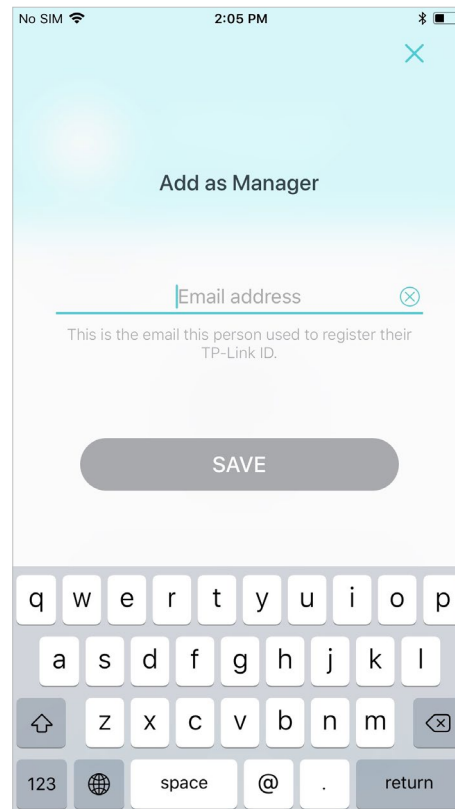
# Managers

Add friends and family members to help manage your Deco network. Each manager should have their own TP-Link ID.

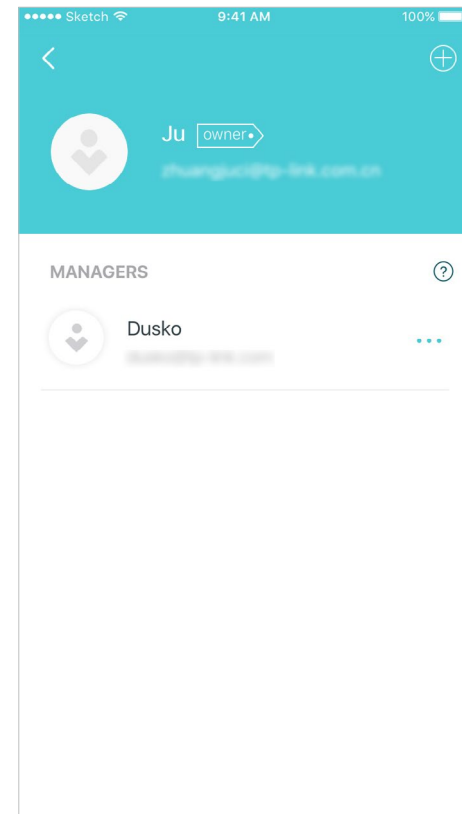
Managers



Add a manager



Manager list



# Authentication

## **COPYRIGHT & TRADEMARKS**

Specifications are subject to change without notice.  tp-link is a registered trademark of TP-Link Technologies Co., Ltd. Other brands and product names are trademarks or registered trademarks of their respective holders.

No part of the specifications may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from TP-Link Technologies Co., Ltd. Copyright © 2020 TP-Link Technologies Co., Ltd. All rights reserved.

## FCC Compliance Information Statement



**Product Name:** AX1800 Whole Home Mesh Wi-Fi System

**Model Number:** Deco X20

| Component Name     | Model       |
|--------------------|-------------|
| I.T.E POWER SUPPLY | T120150-2B4 |

**Responsible party:**

**TP-Link USA Corporation, d/b/a TP-Link North America, Inc.**

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

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

Tel: +1 626 333 0234

Fax: +1 909 527 6803

E-mail: [sales.usa@tp-link.com](mailto: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.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

### **FCC RF Radiation Exposure Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

### **FCC Compliance Information Statement**



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

**Model Number:**

T120120-2B4

**Responsible party:**

**TP-Link USA Corporation, d/b/a TP-Link North America, Inc.**

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

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

Tel: +1 626 333 0234

Fax: +1 909 527 6803

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.

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: 2020-01-16

## CE Mark Warning



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)

2412MHz—2483.5MHz (20dBm)

5150MHz—5250MHz (23dBm)

## 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 <http://www.tp-link.com/en/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.

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

|  |    |    |    |    |    |    |    |    |
|--|----|----|----|----|----|----|----|----|
|  | 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 |

## 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, and
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, même 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;

### **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;

### **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.

### **Industry Canada Statement**

CAN ICES-3 (B)/NMB-3(B)

### **Korea Warning Statements:**

당해 무선설비는 운용중 전파혼신 가능성이 있음.

## NCC Notice & BSMI Notice:

注意！

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

4.7.9.1應避免影響附近雷達系統之操作。

4.7.9.2高增益指向性天線只得應用於固定式點對點系統。

### 安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。

限用物質含有情況標示聲明書

| 產品元件名稱 | 限用物質及其化學符號 |         |         |             |             |               |
|--------|------------|---------|---------|-------------|-------------|---------------|
|        | 鉛<br>Pb    | 鎘<br>Cd | 汞<br>Hg | 六價鉻<br>CrVI | 多溴聯苯<br>PBB | 多溴二苯醚<br>PBDE |
| PCB    | ○          | ○       | ○       | ○           | ○           | ○             |
| 外殼     | ○          | ○       | ○       | ○           | ○           | ○             |
| 電源供應器  | —          | ○       | ○       | ○           | ○           | ○             |

備考1. 超出0.1 wt %” 及 “超出0.01 wt %” 系指限用物質之百分比含量超出百分比含量基準值。

備考2. “○” 系指該項限用物質之百分比含量未超出百分比含量基準值。

備考3. “—” 系指該項限用物質為排除項目。



Продукт сертифіковано згідно з 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.
- 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.

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.

#### Environment

Operating Temperature: 0°C~40°C (32°F ~104°F)

Storage Temperature: -40°C~70°C (-40°F ~158°F)

Operating Humidity: 10%~90% non-condensing

Storage Humidity: 5%~90% non-condensing

### Explanation of the symbols on the product label

| Symbol                                                                            | Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | DC voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|  | Indoor use only                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|  | <p>RECYCLING</p> <p>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.</p> <p>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.</p> |