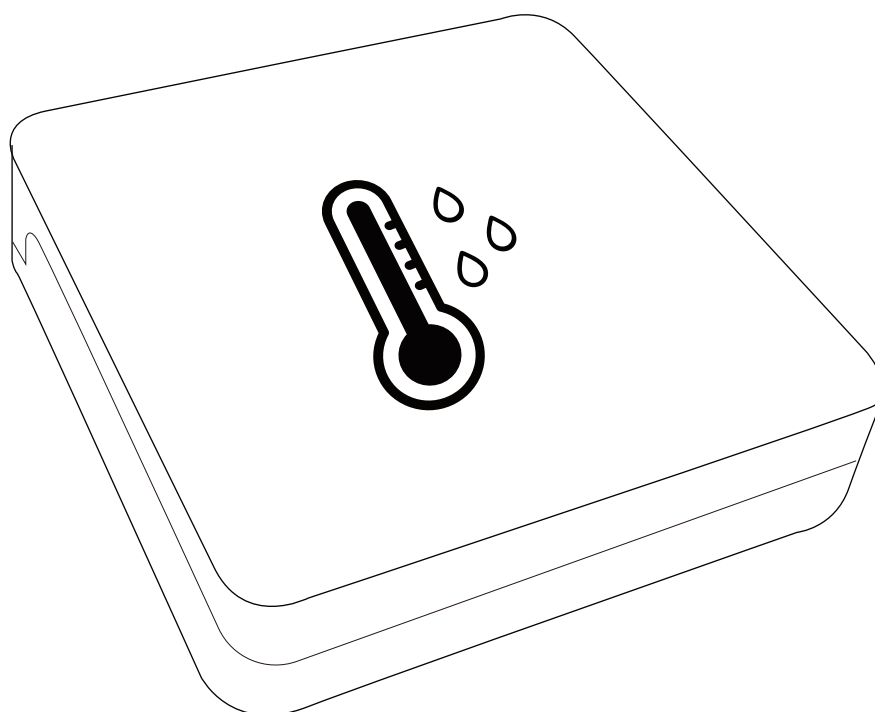


# Temperature and Humidity Sensor Lite

## User Manual

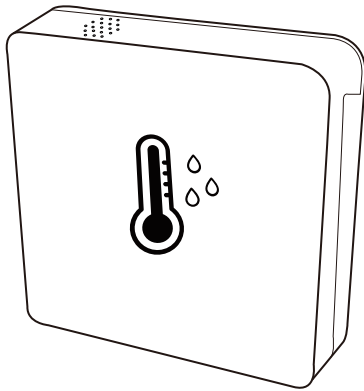


THIRDREALITY

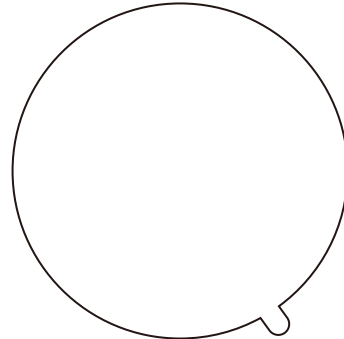
# Contents

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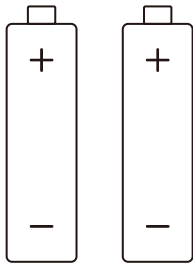
# What's in the Box



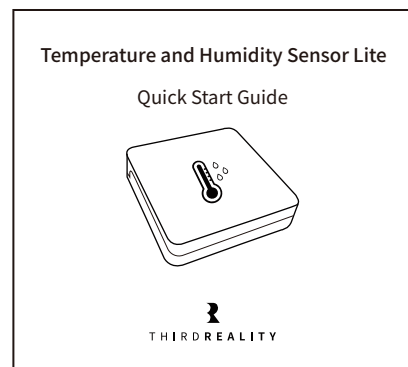
Temperature and Humidity  
Sensor Lite



3M adhesive



AAA Battery (included)



Quick Start Guide

# Introduction

We are thrilled to introduce a new generation of Zigbee Temperature and Humidity Sensor, a new LCD-Free design to enhance your living space with seamless connectivity, energy efficiency, and precise environmental monitoring.

Enjoy battery-powered convenience, reliable and efficient communication, ensuring a seamless integration into your smart home ecosystem.

## Specifications

|                       |                                      |
|-----------------------|--------------------------------------|
| Name                  | Temperature and Humidity Sensor Lite |
| Model                 | 3RTHS0224Z                           |
| Dimensions            | 5.56cm×5.59cm ×1.23cm                |
| Operating Voltage     | DC 3V                                |
| Battery Type          | AAA battery × 2 (included)           |
| Wireless Connectivity | Zigbee 3.0                           |
| Working condition     | Indoor Use Only                      |
| Temperature Range     | -15°C~50°C ( 5°F~122°F)              |
| Humidity Range        | 0-100%                               |
| Temperature Accuracy  | ±0.3°C                               |
| Humidity Accuracy     | ±2%                                  |

# Setup

1. Make sure the device has power by inserting a new battery.  
Press and hold the reset button for 5 seconds until the LED turns red and then flashes in blue, indicate it enters pairing mode.
2. Follow the instructions of your Zigbee hub to pair the sensor.  
Note: If not successfully paired to the Zigbee hub within 3 min, the sensor will exit pairing mode. To enter pairing mode again, press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode.

# Pairing with ThirdReality

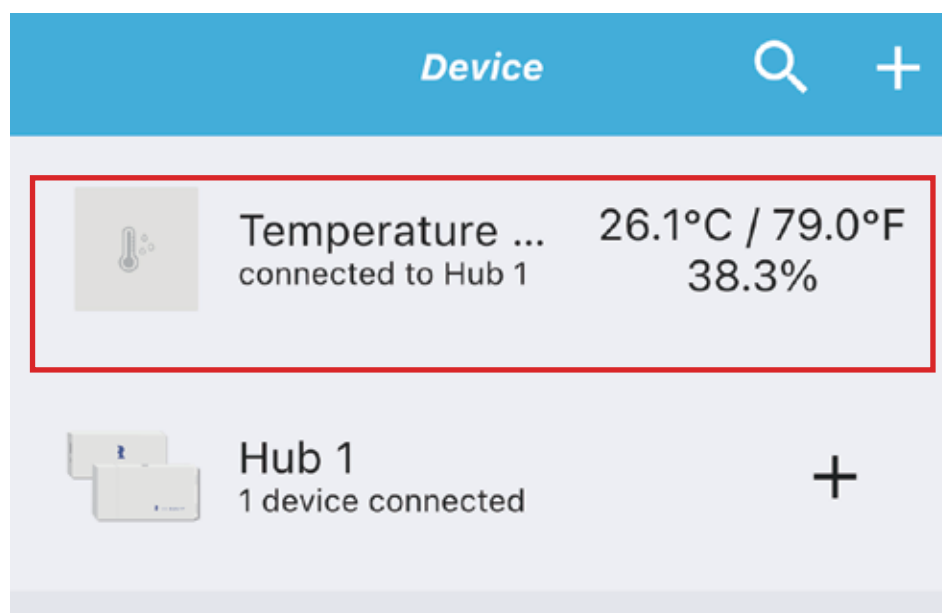
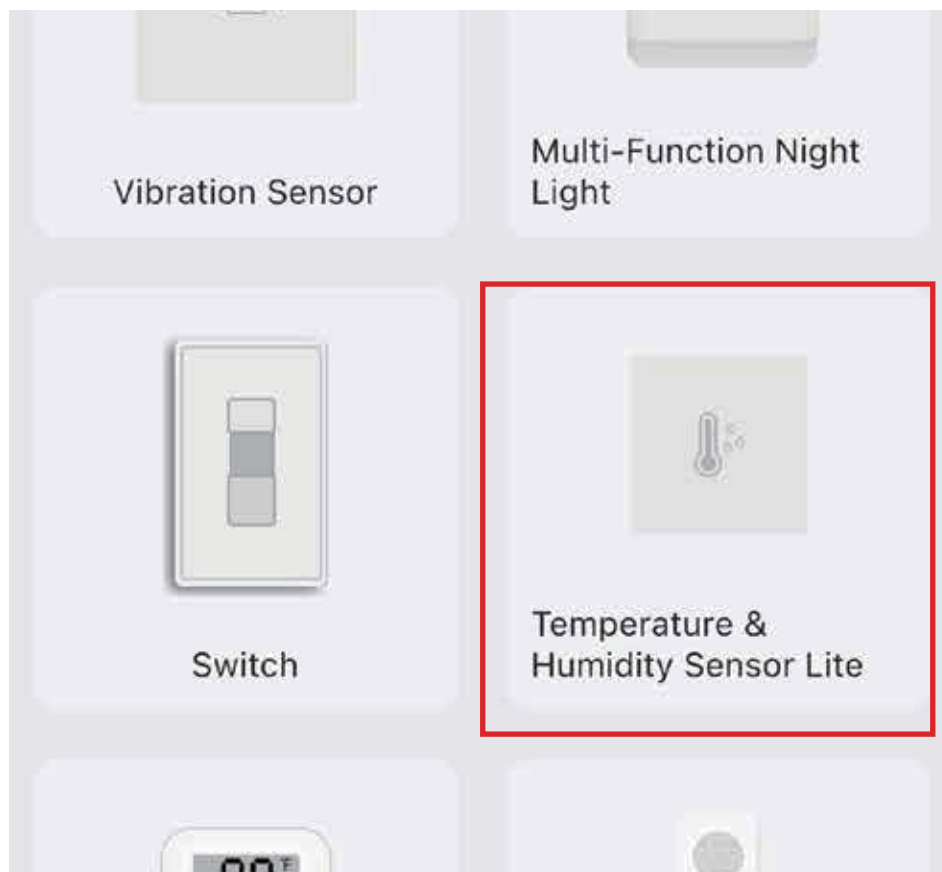
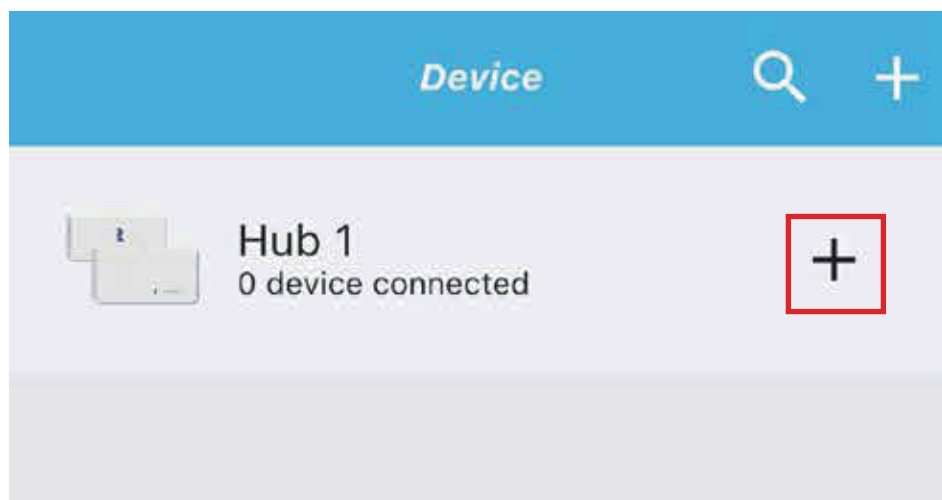
App: Third Reality App

Device: ThirdReality Smart Hub



## Pairing steps:

1. Register and sign in your ThirdReality account, set up your ThirdReality smart hub, make sure both the Third Reality app and the smart hub's firmware are in the latest version.
2. Push to open the back cover of the sensor and install the batteries.
3. Press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit pairing mode after 3 min if not paired.
4. Tap "+" in the top right in the Third Reality App, follow the on-screen instructions to add device.



# Pairing with 3R-Installer

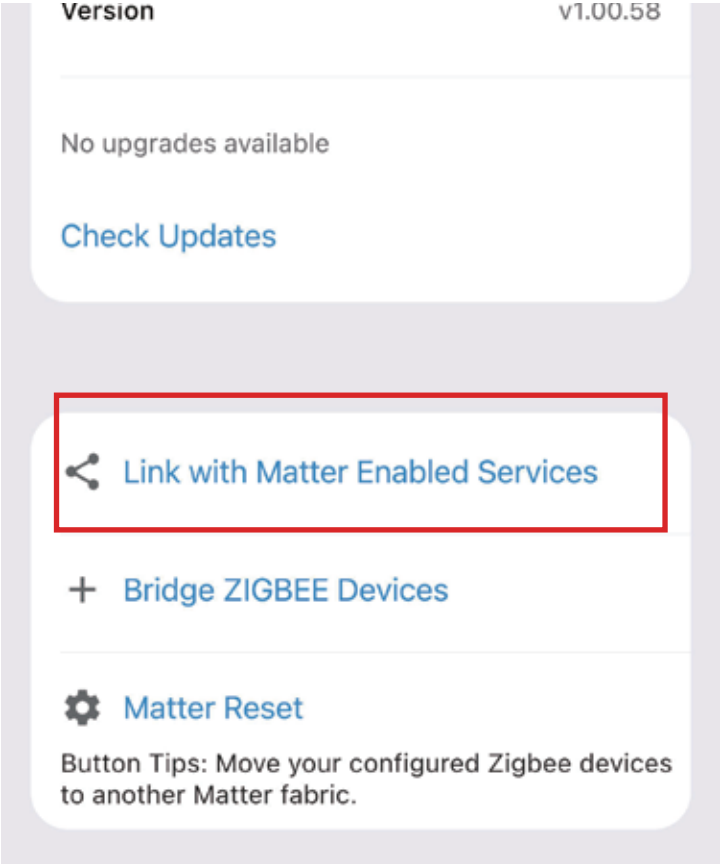
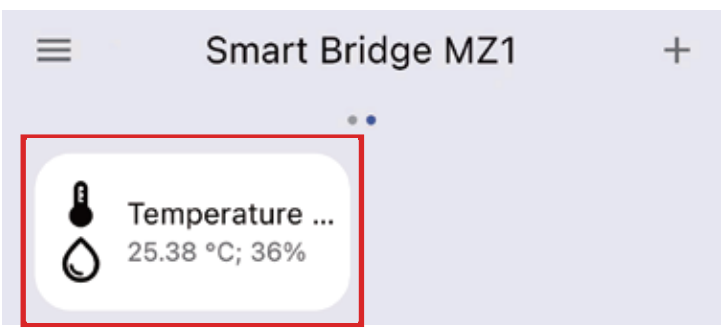
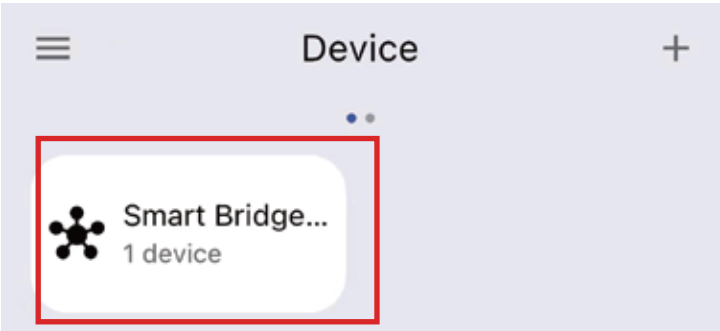
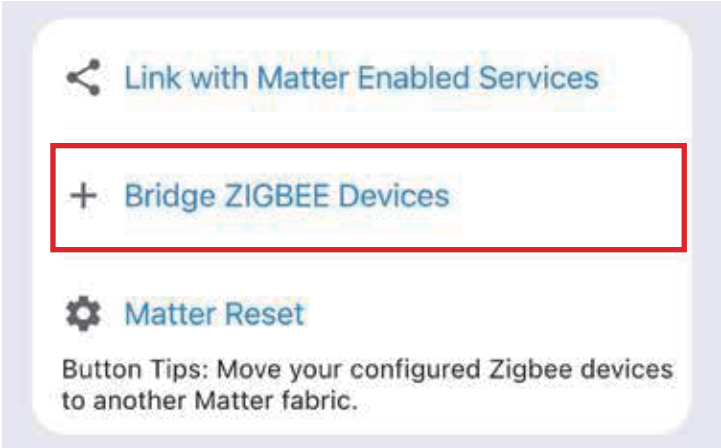
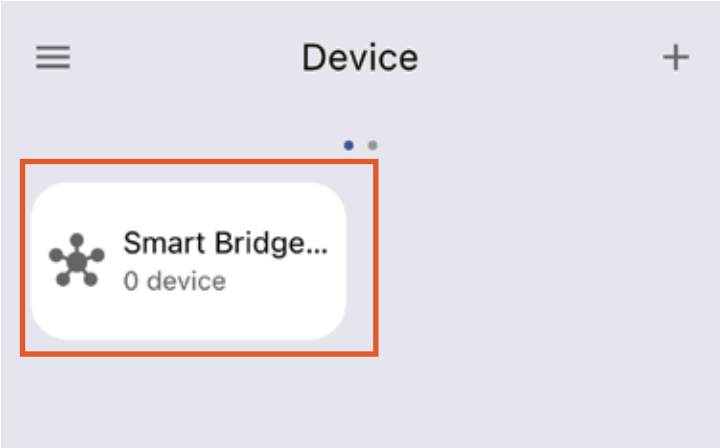
App: 3R-Installer App

Device: Smart Bridge MZ1



## Pairing steps:

1. Set up your smart bridge, make sure both the 3R-Installer App and the smart bridge's firmware are in the latest version.
2. Push to open the back cover of the sensor and install the batteries.
3. Press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit pairing mode after 3 min if not paired.
4. Tap the smart bridge icon to enter the devices page, tap "+ Bridge ZIGBEE Devices" to start Zigbee pairing, follow the on-screen instructions to add device.
5. Tap Link With Matter Enabled Services, copy the Manual Setup Code or Scan the QR Code within 3 min, then you can add the bridge to other Matter supported ecosystems through multi-admin.



# Pairing with Amazon Echo

App: Amazon Alexa

Devices: Echo speakers with built-in Zigbee hub, Echo 4th Gen, Echo Plus 1st & 2nd Gen, Echo Studio



## Pairing steps:

### Direct Pairing:

1. Ask Alexa to check for updates before pairing.
2. Install the batteries. Press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit Zigbee pairing mode after 3 min if not paired.
3. Tap "+" in the Alexa App, choose "Other" and "Zigbee" to add device, the Temperature and Humidity Sensor Lite will be added.
4. Create routines to control other connected devices.

All Devices

Tina's Echo

Online

Alexa on This Phone

Online

Smoke and CO Detector

Soap Dispenser

Water Heater

Water Leak Detector

Other

Home

Devices

More

Add Device

Echo, Smart Home and Accessories

Add Group

Create rooms, device groups and larger areas

Combine speakers

Set up multi-room music, a home cinema or a stereo pair.

Connect your Zigbee device to Alexa

1

Make sure your device is within 30 feet of your compatible Echo or hub.

2

Put your device into pairing mode by powering it off and on again.

3

Press Discover Devices

When you discover devices, Alexa may connect additional compatible devices in your home. You can learn about or delete these devices in device settings.

Discover Devices

1 temperature sensor found and connected

Your temperature sensor has been added to your Alexa account. Next, continue setting up your device.

Set Up Device

Devices

Groups

See all

Bedroom

Garage

Kitchen

Devices

Device Type

Sort By

Second device

Recently added



# Pairing with Amazon Echo

App: Amazon Alexa

Devices: Echo speakers with built-in Zigbee hub, Echo 4th Gen, Echo Plus 1st & 2nd Gen, Echo Studio



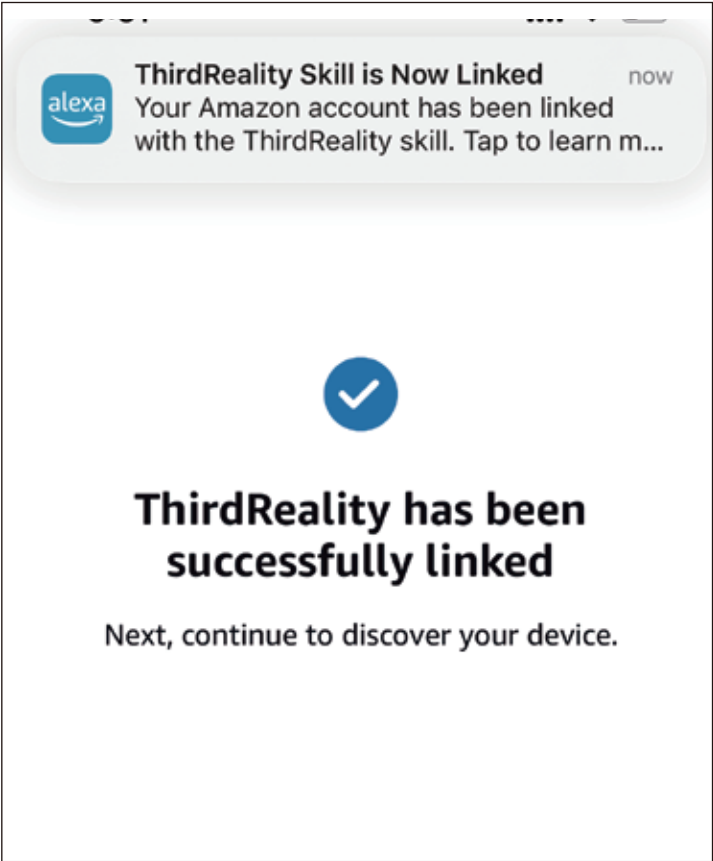
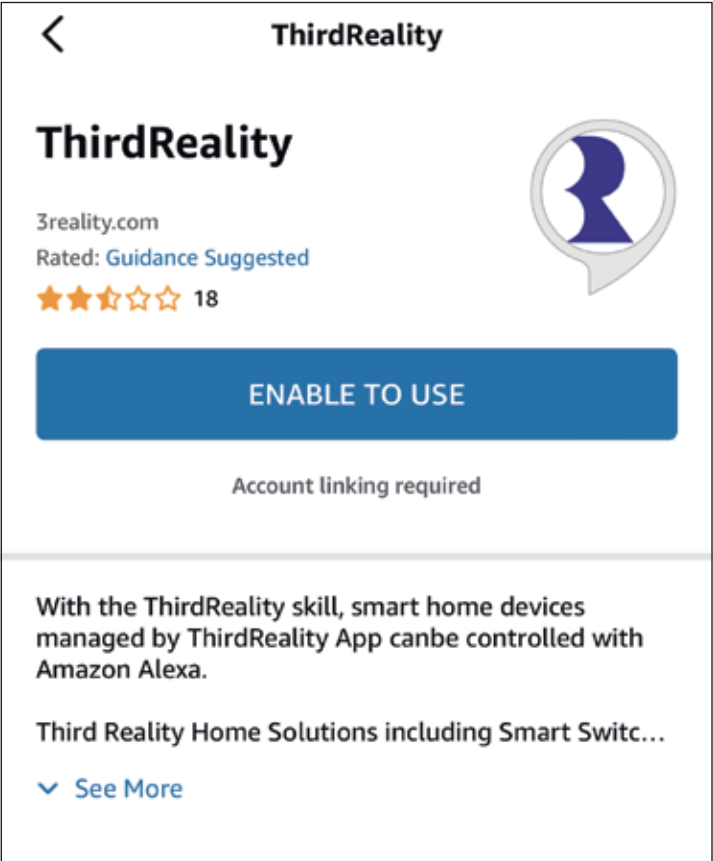
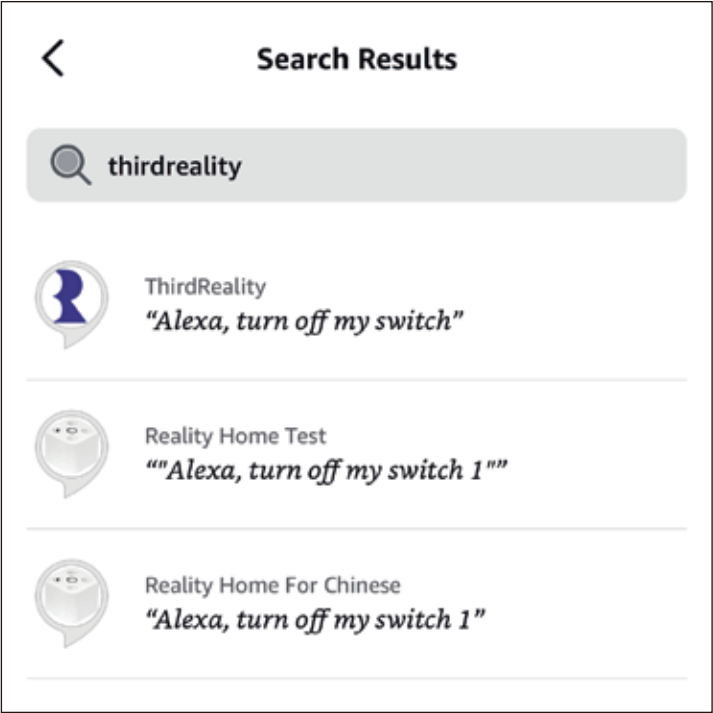
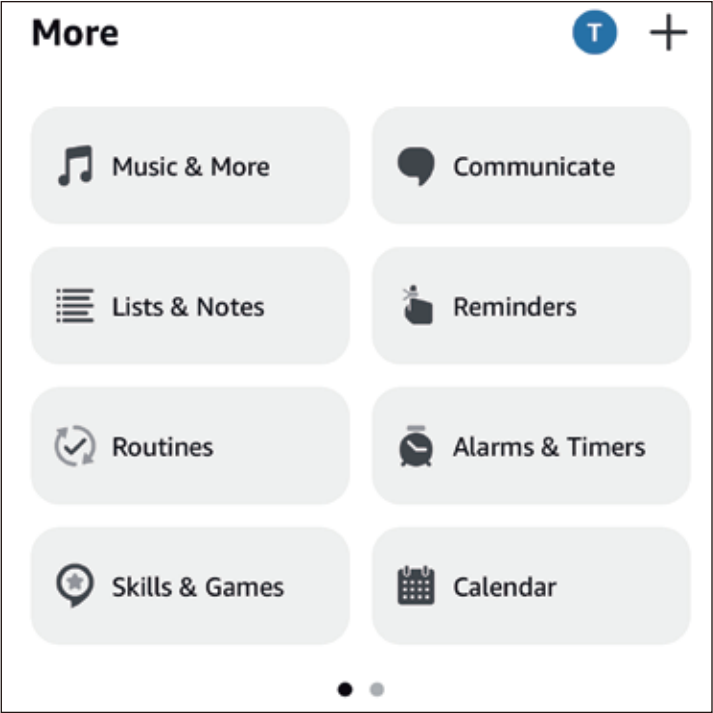
## Pairing steps:

### Via Alexa Skill:

1. Ask Alexa to check for updates before pairing.
2. Install the batteries. Press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit Zigbee pairing mode after 3 min if not paired.
3. Follow instructions Pairing with ThirdReality.
4. Open your Alexa app, enable Third Reality skill in Skills & Games.
5. Devices paired in Third Reality app will be automatically added into Alexa

Note: Humidity value is not exposed to Alexa.

Temperature and Humidity Sensor Lite added through ThirdReality Skill cannot be used as triggers for Alexa routines.



# Pairing with SmartThings

App: SmartThings App

Devices: SmartThings Hub 2nd Gen(2015) and 3rd Gen(2018), Aeotec Smart Home Hub.



## Pairing steps:

1. Before pairing, check for updates to make sure the SmartThings Hub firmware is up to date.
2. Add SmartThings drivers for ThirdReality T & H Sensor Lite
  - Open this link in your PC browser. Log in your SmartThings Account.  
**<https://bestow-regional.api.smarththings.com/invite/adMKr50EXzj9>**
  - Click "Enroll" -- "Available Drivers" -- "Install" to install the device driver.



## SmartThings

### Channel Information

- Name  
Third Reality
- Description  
SmartThings driver for Third Reality devices
- [Terms of Service](#)

### My Hubs

#### Aeotec Hub

My home

Enroll



## SmartThings

### Channel Information

- Name  
Third Reality
- Description  
SmartThings driver for Third Reality devices
- [Terms of Service](#)

### My Hubs

#### Aeotec Hub

My home

Unenroll

Available Drivers



## SmartThings

### Third Reality

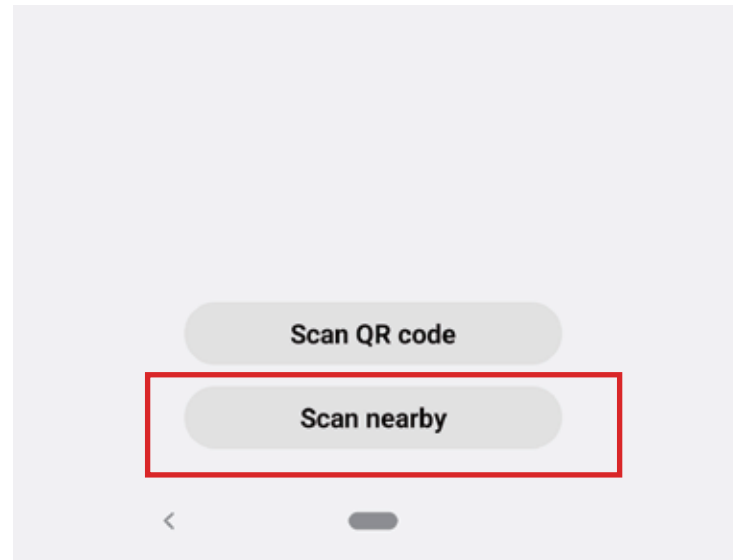
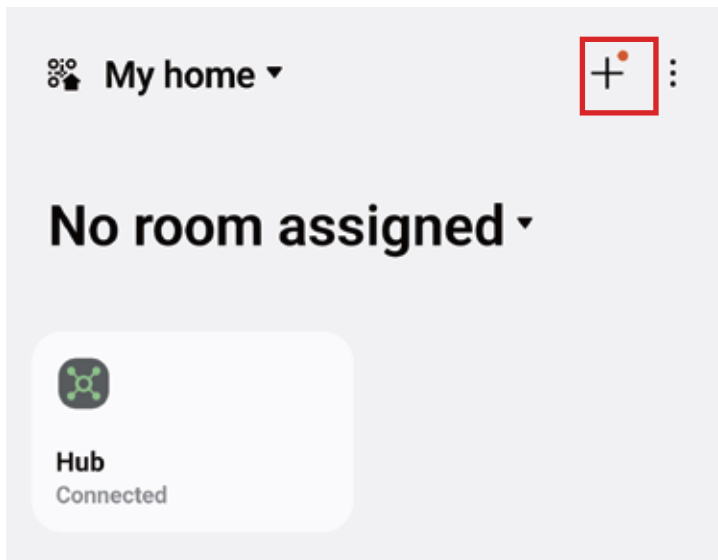
#### Aeotec Hub

#### My home

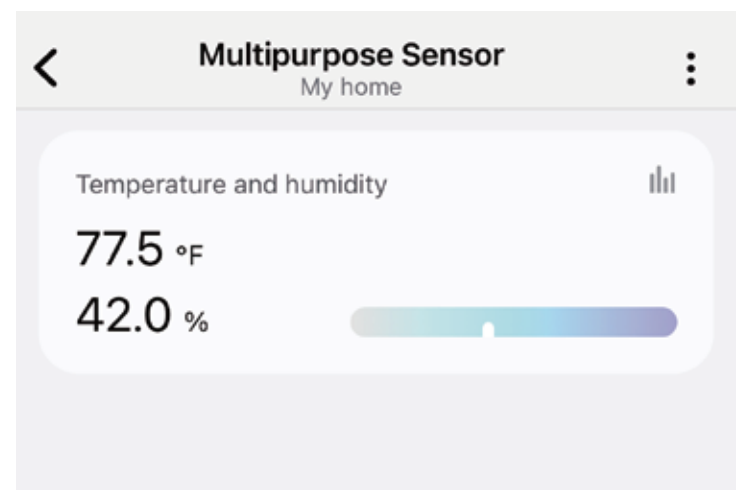
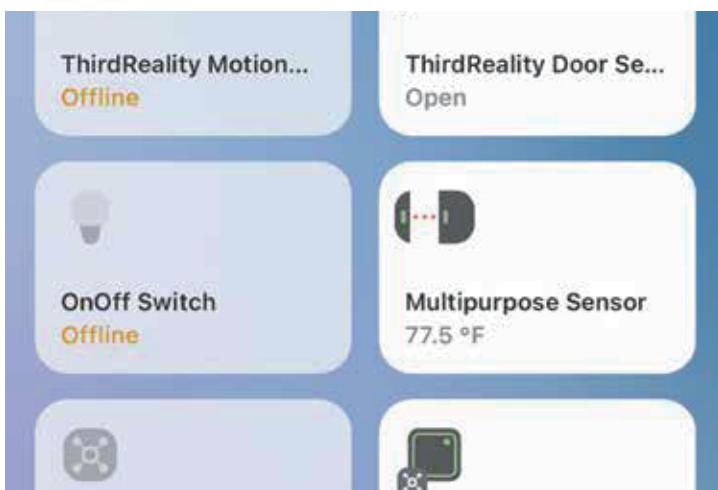
- Name  
ThirdReality Humidity Sensor
- Description  
ThirdReality Temperature and Humidity sensor drivers
- Permissions
  - zigbee: Enable full access to Zigbee actions

Install

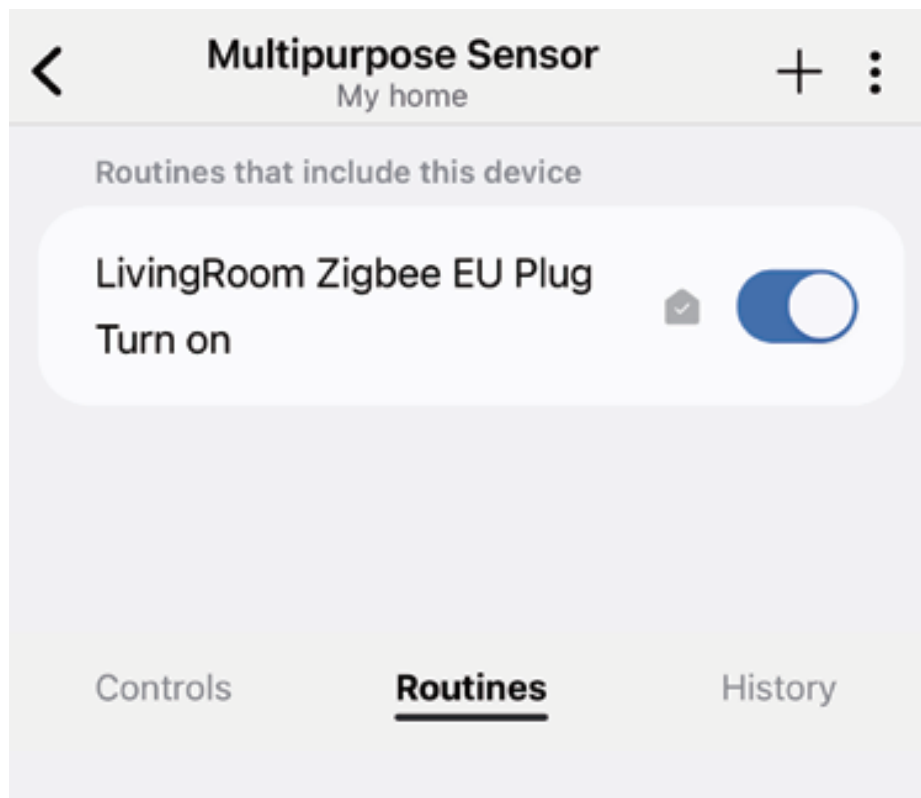
3. Install the batteries. Press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit Zigbee pairing mode after 3 min if not paired.
4. Open the SmartThings App, tap "+" on the upper right corner to "Add device" and then tap "Scan for nearby devices".



5. The Temperature and Humidity Sensor Lite will be paired with the SmartThings hub.



6. Create routines to control connected devices.



# Pairing with Hubitat

Website: <http://find.hubitat.com/>



## Pairing steps:

1. Install the batteries. press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit Zigbee pairing mode after 3 min if not paired.
2. Tap "Add Device" in Hubitat Devices page.
3. Choose "Zigbee", then "Start Zigbee Pairing".
4. Type in a device and room name and click "Next" to complete pairing.

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Devices

My

Rooms
Devices
Apps
Settings
Subscriptions
Developer tools
Apps code
Drivers code
Libraries code
Bundles

Compatible list

| Label (Name)                                                        | Room | Type                            | Source | Last Activity |
|---------------------------------------------------------------------|------|---------------------------------|--------|---------------|
| 0000<br><small>(Generic Zigbee Shade)</small>                       |      | Generic Zigbee Shade            | System | 11-04 4:38am  |
| 1212<br><small>(Generic Zigbee Outlet)</small>                      |      | Generic Zigbee Outlet           | System | 12-01 1:57am  |
| 5555<br><small>(Generic Zigbee Motion Sensor (no temp))</small>     | huân | Zigbee Motion Detector          | User   | 12-08 9:08am  |
| 93FC<br><small>(Generic Zigbee Temperature/Humidity Sensor)</small> |      | Generic Zigbee Temperature/H... | System | 12-09 11:12am |
| bt1<br><small>(Third Reality Smart Button)</small>                  |      | Third Reality Smart Button      | System | 12-06 8:25pm  |
| button 5<br><small>(Third Reality Smart Button)</small>             |      | Third Reality Smart Button      | System | 12-08 2:27pm  |
| button11<br><small>(Third Reality Smart Button)</small>             |      | Third Reality Smart Button      | System | 7-10 11:32pm  |

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Add device

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Developer tools
Apps code
Drivers code
Libraries code
Bundles

Find by device type  
Bulbs, dimmers, locks, outlets, switches...

Find by brand  
Aeotec, Bosch, Centralite, Dome, Ecolink...

Add device manually:

Zigbee
 Z-Wave
 Iris V1 Zigbee
 Virtual

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Libraries code
Bundles

Home - Zigbee Cancel

Make sure that the device has been factory reset. Simply removing it from a previous mesh may not allow it to be joined. A factory reset will ensure it is discoverable.

+ Stop Zigbee pairing

Pairing, 58s remaining

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Rooms

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Apps

Settings

Subscriptions

Developer tools

Apps code

Drivers code

Libraries code

Bundles

Logs

Add device

Home

Generic Zigbee Temperature/Humidity Sensor added!

View device details

Test the functions of your new device (highly recommended) and see additional details.

+ Add another device

Start from the beginning to add a new device.

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Devices

Apps

Settings

Subscriptions

Developer tools

Apps code

Drivers code

Libraries code

Bundles

Logs

TH lite

Device List

Events

Logs

Commands

Configure

Refresh

Update Firmware

Current States

lastBattery : 1713950872

tempOffset : 0

sensorTemp : 26.83

State Variables

Preferences

Temperature Reporting (default:On 0.5°C change)

Humidity Reporting (default:On 1% change)

Reference temperature

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Rooms

Devices

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Developer tools

Apps code

Drivers code

Libraries code

Bundles

Logs

Turn On E2

Automate lights and switches

Pause

Which lights or switches do you want to automate?

E2

How do you want to trigger it? \*

Temperature

What do you want to do? \*

Turn On

Which temperature sensor?

Select temperature sensor

Turn on lights if temperature is

equal or greater

than

30

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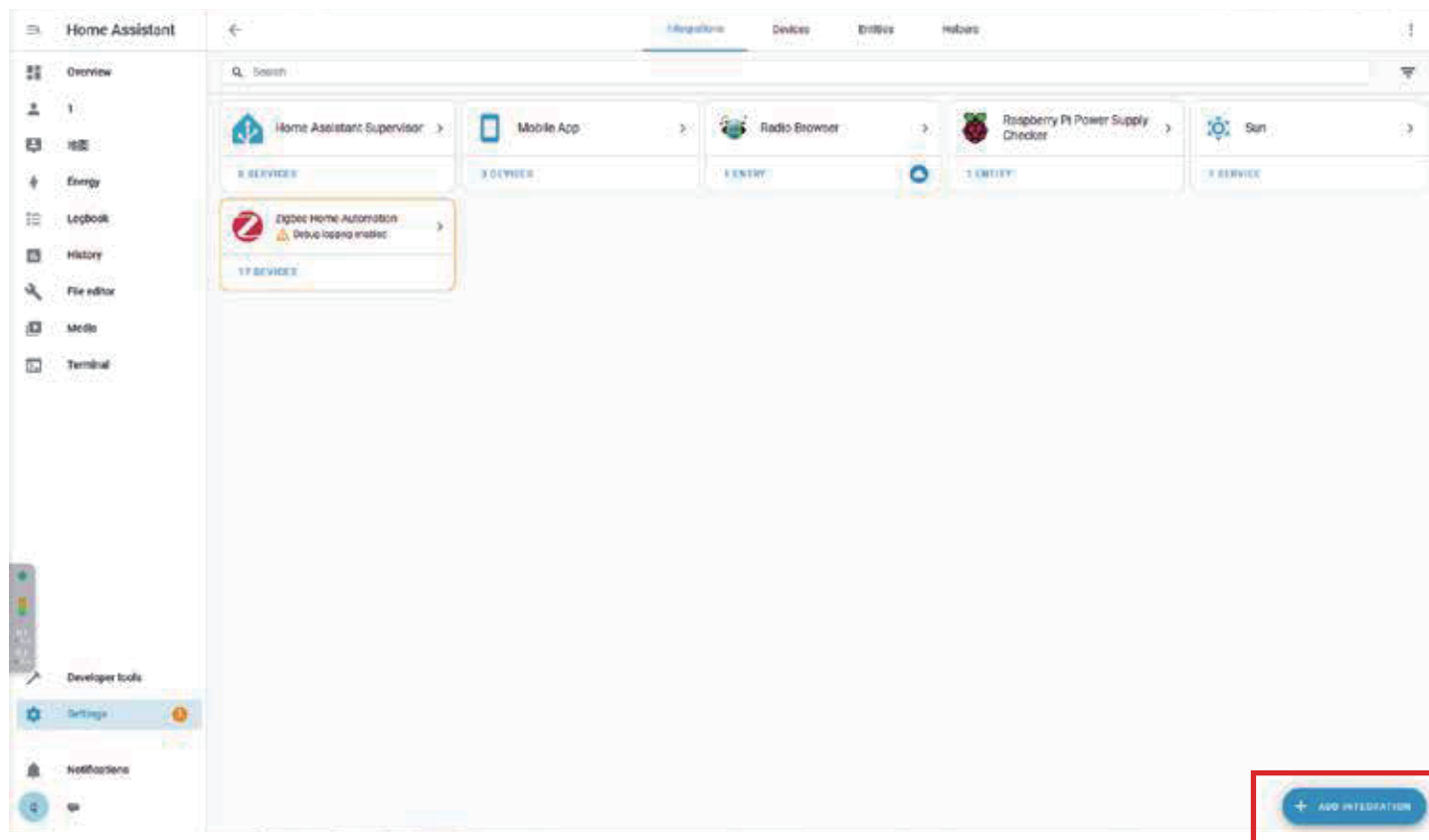
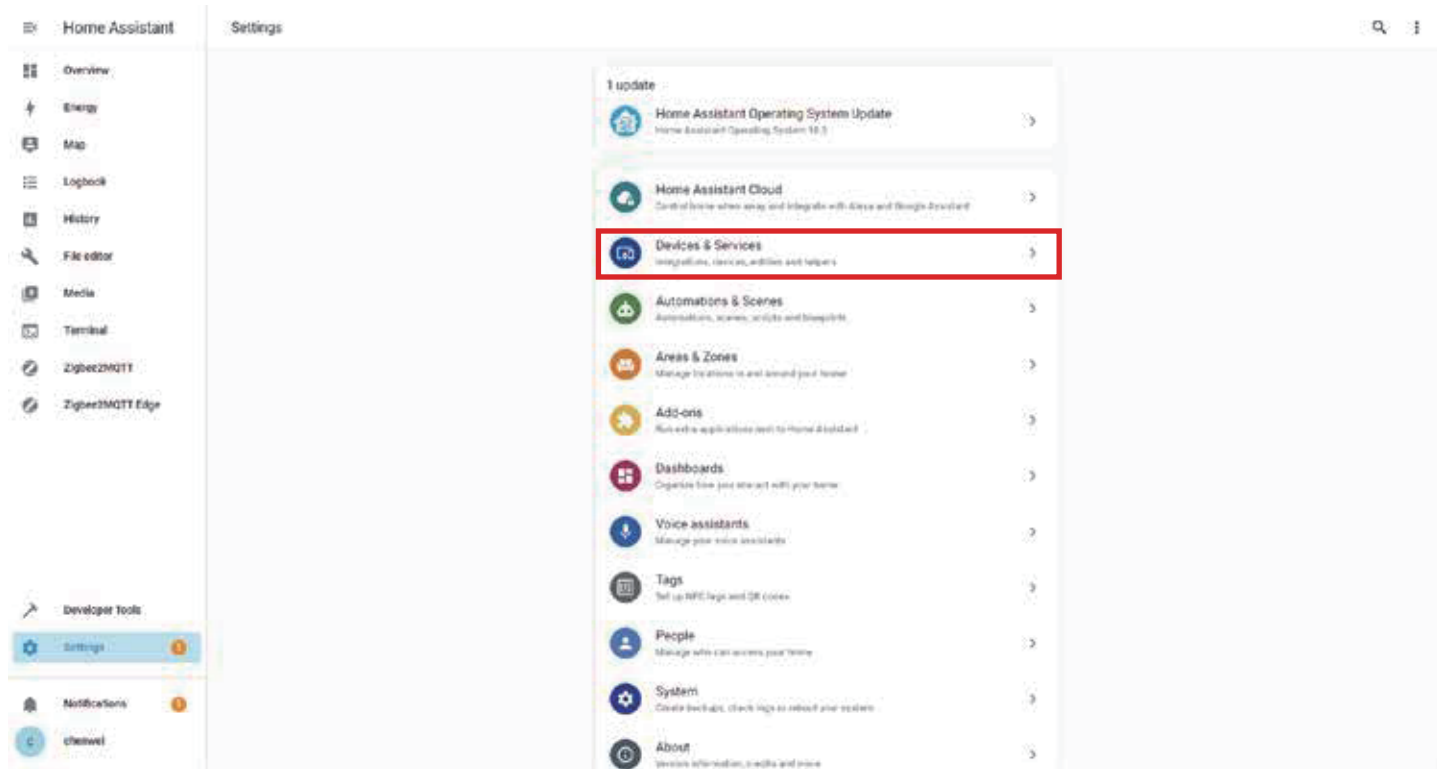
# Pairing With Home Assistant

Device: Zigbee dongle



## Zigbee Home Automation

1. Install the batteries. Press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit Zigbee pairing mode after 3 min if not paired.
2. Make sure Home Assistant Integrations Zigbee Home Automation Setup is ready, then go to "Configuration" page, click "integration".
3. Then click the "Devices" on the Zigbee item, then click "Add Devices".
4. After the pairing is completed successfully, it will show up in the page.
5. Back to "Devices" page, then you can find the device added.
6. Click to enter in the control interface to set the device.
7. Click "+" belongs to Automation and then you can add different actions.



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|-----------------|--|--------------|--|---------|-------------------|------|
| Home Assistant  |  | Integrations |  | Devices | Entities          | Help |
| Overview        |  | 1 items      |  | 30      | Search in devices |      |
| 1               |  |              |  |         | Group by          |      |
| Energy          |  |              |  |         | Sort by device    |      |
| Logbook         |  |              |  |         |                   |      |
| History         |  |              |  |         |                   |      |
| File editor     |  |              |  |         |                   |      |
| Media           |  |              |  |         |                   |      |
| Terminal        |  |              |  |         |                   |      |
| Developer tools |  |              |  |         |                   |      |
| Settings        |  |              |  |         |                   |      |
| Notifications   |  |              |  |         |                   |      |
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Home Assistant

Third Reality 3RTHS0224Z

Overview

1

Energy

Logbook

History

File editor

Media

Terminal

Developer tools

Settings

Notifications

100%

Device info

3RTHS0224Z

by Third Reality

Firmware: 0x00000010

Zigbee info

Zigbee Home Automation

REQUIRE

Automations

No automations have been added using this device yet. You can add one by clicking the + button above.

Scenes

No scenes have been added using this device yet. You can add one by clicking the + button above.

Scripts

No scripts have been added using this device yet. You can add one by clicking the + button above.

Sensors

Humidity

40.2%

Temperature

25.7 °C

ADD TO DASHBOARD

Configuration

Firmware

Up-to-date

ADD TO DASHBOARD

Diagnostic

Battery

100%

Identify

PRESS

+2 entities not shown

ADD TO DASHBOARD

Logbook

April 25, 2024

Third Reality 3RTHS0224Z Checkin event was fired

8:45:10 AM - 1 minutes ago

Third Reality 3RTHS0224Z Checkin event was fired

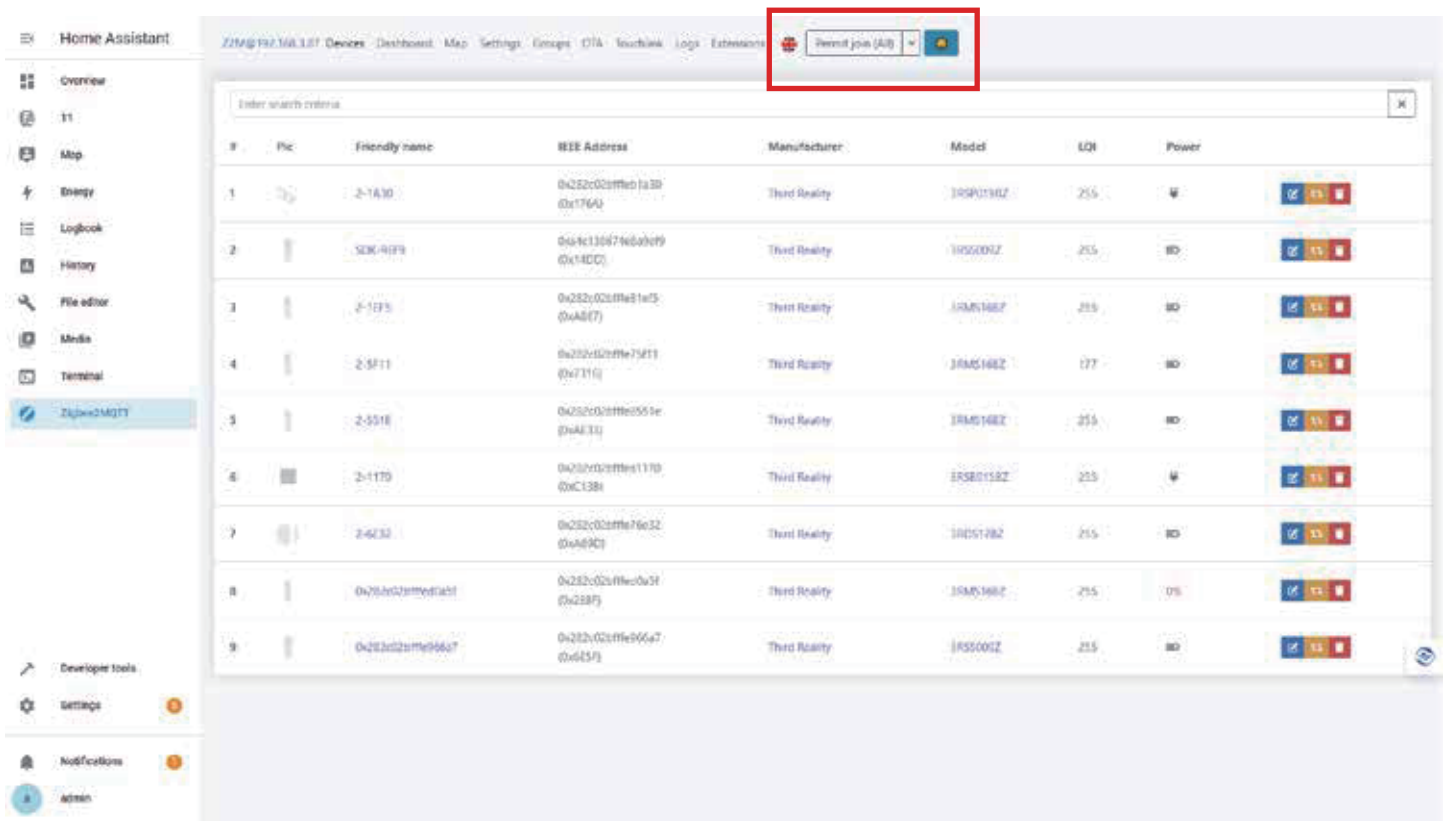
8:45:17 AM - 1 minutes ago

Third Reality 3RTHS0224Z Checkin event was fired

8:45:25 AM - 1 minutes ago

# Zigbee2MQTT

1. Install the batteries. press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit Zigbee pairing mode after 3 min if not paired.
2. Make sure Home Assistant Zigbee2MQTT Setup is ready .
3. Click "permit join (All)" to add device.
4. Create automation and then you can add different actions.



The screenshot shows the Home Assistant interface with the Zigbee2MQTT extension installed. The left sidebar contains navigation options: Overview, 11, Map, Energy, Logbook, History, File editor, Media, Terminal, and Zigbee2MQTT (which is highlighted). The main area displays a list of Zigbee devices. At the top of this area, there is a 'Permit join (All)' button, which is highlighted with a red rectangular box. Below this button is a search bar and a table of devices.

| # | Fic | Friendly name | IEEE Address               | Manufacturer  | Model     | LQI | Power |
|---|-----|---------------|----------------------------|---------------|-----------|-----|-------|
| 1 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |
| 2 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |
| 3 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |
| 4 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |
| 5 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |
| 6 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |
| 7 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |
| 8 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |
| 9 |     | 2-1A30        | 0x222c02fffe01a30 (0x1764) | Third Reality | 309P0130Z | 255 | W     |

Home Assistant

Overview

11

Map

Energy

Logbook

History

File editor

Media

Terminal

Zigbee2MQTT

Developer tools

Settings

Notifications

Admin

Zigbee2MQTT 1.37.0

Devices

Dashboard

Map

Settings

Groups

OTA

Touchlink

Logs

Extensions

Reboot join (All)

Enter search criteria

| #  | Pic | Friendly name     | IEEE Address                   | Manufacturer  | Model     | LQI | Power |  |
|----|-----|-------------------|--------------------------------|---------------|-----------|-----|-------|--|
| 1  |     | 2-1A30            | 0x252c02c0f6b1a20<br>(0x176A)  | Third Reality | 3RSP0380Z | 255 |       |  |
| 2  |     | 50K-90F9          | 0x4c128574e8a0b09<br>(0x140D)  | Third Reality | 3RCS009Z  | 255 | 80    |  |
| 3  |     | 2-11F5            | 0x252c02c0f6b1e13<br>(0x48C7)  | Third Reality | 3RMS108Z  | 255 | 80    |  |
| 4  |     | 2-5F11            | 0x252c02c0f6b17911<br>(0x7315) | Third Reality | 3RMS108Z  | 172 | 80    |  |
| 5  |     | 2-551E            | 0x252c02c0f6b1551e<br>(0x4c33) | Third Reality | 3RMS108Z  | 255 | 80    |  |
| 6  |     | 2-117D            | 0x252c02c0f6b117D<br>(0xC13B)  | Third Reality | 3RSD158Z  | 255 |       |  |
| 7  |     | 2-6132            | 0x252c02c0f6b16e32<br>(0x48C7) | Third Reality | 3RDL170Z  | 255 | 80    |  |
| 8  |     | 0x252c02c0f6b1a20 | 0x252c02c0f6b1a20<br>(0x28P)   | Third Reality | 3RMS108Z  | 255 |       |  |
| 9  |     | 0x252c02c0f6b1a20 | 0x252c02c0f6b1a20<br>(0x4C32)  | Third Reality | 3RCS009Z  | 255 | 80    |  |
| 10 |     | 0x442500028060000 | 0x442500028060000<br>(0x716D)  | Third Reality | 3RTH0224Z | 255 | 0     |  |

Expire

Exclude

Joining

New devices

Home Assistant

Overview

11

Map

Energy

Logbook

History

File editor

Media

Terminal

Zigbee2MQTT

Developer tools

Settings

Notifications

Admin

Zigbee2MQTT 1.37.0

Devices

Dashboard

Map

Settings

Groups

OTA

Touchlink

Logs

Extensions

Reboot join (All)

0x442500028060000

About

Exposes

Bind

Reporting

Settings

Settings (specific)

State

Clusters

Scene

Dev console

Friendly name

0x442500028060000

Description

N/A

Last seen

N/A

Availability

Disarmed

Device type

EndDevice

Zigbee Model

3RTH0224Z

Zigbee Manufacturer

Third Reality

Description

Temperature and humidity sensor like

Support status

Supported

IEEE Address

0x442500028060000

Network address

0x280

Firmware build date

20230618-08

Firmware version

v1.00.29

Manufacturer

Third Reality

Model

3RTH0224Z

Power

0

Interview completed

True

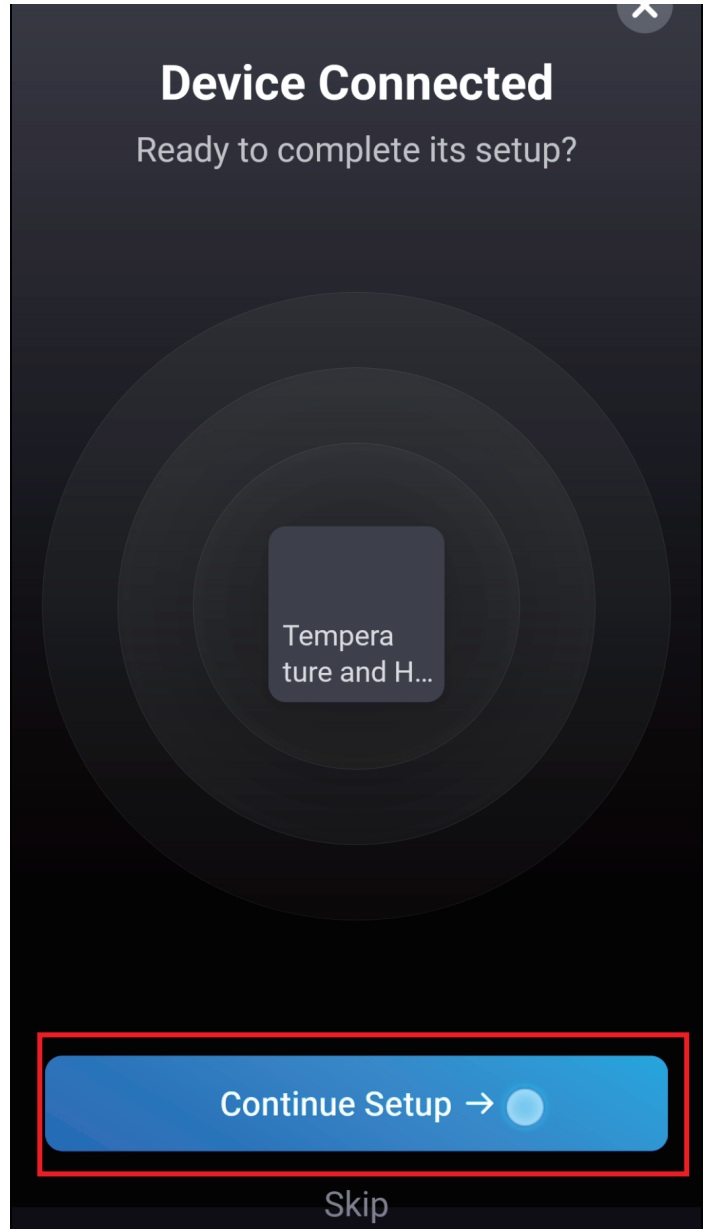
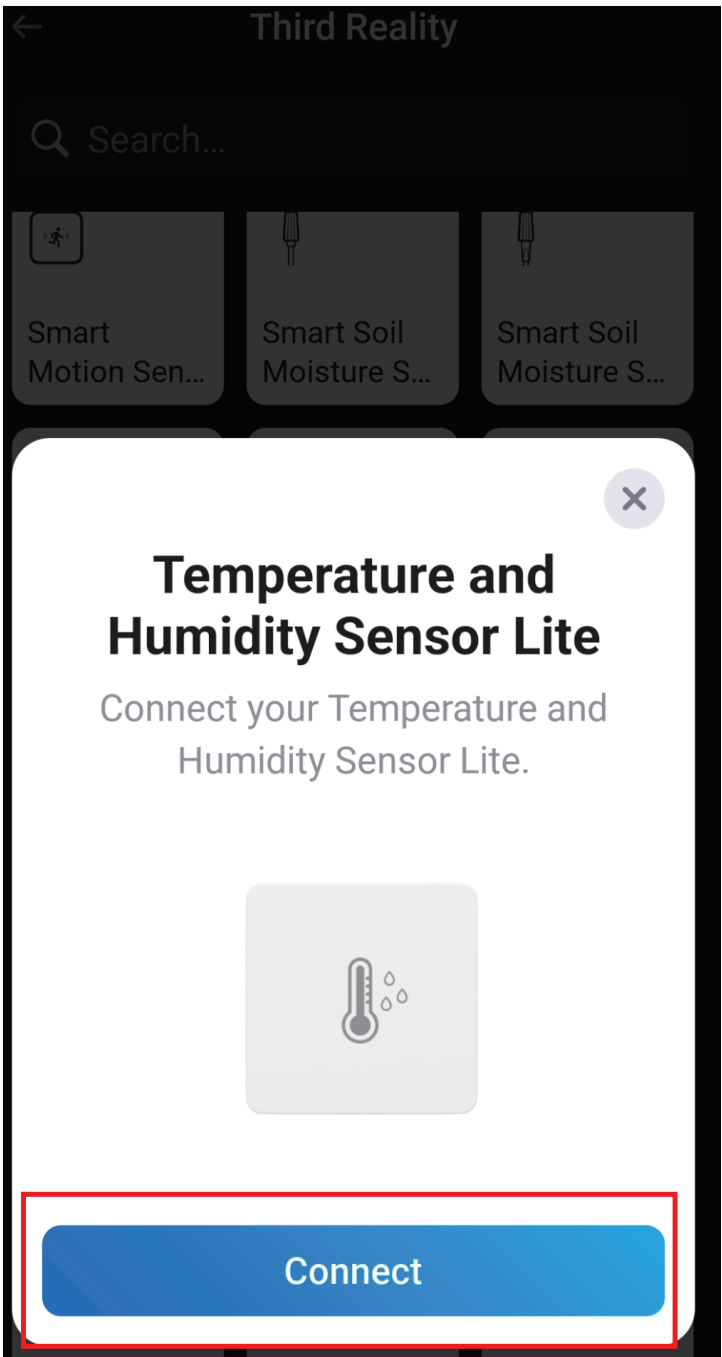
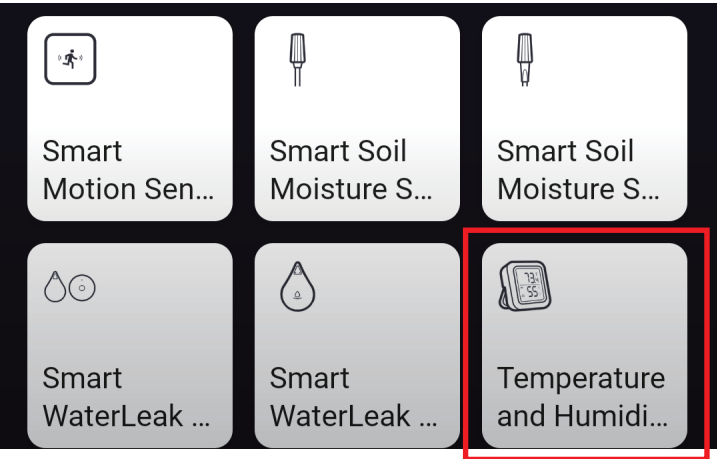
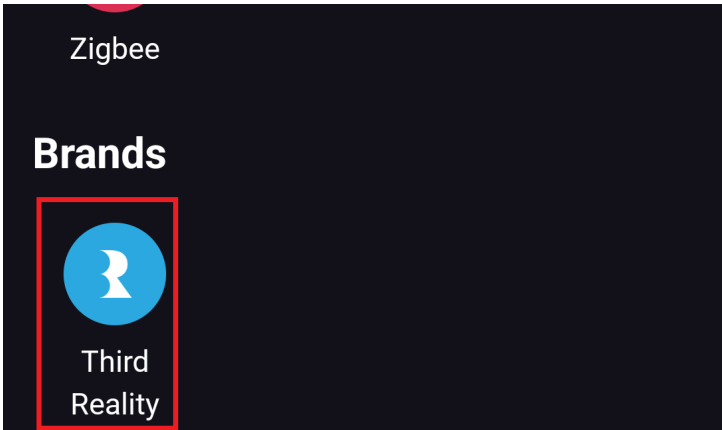
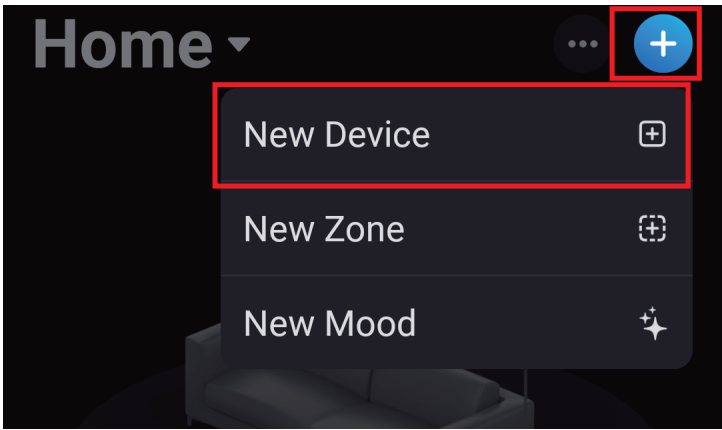
# Pairing with Homey

App: Homey

Devices: Homey Pro, Homey Bridge



1. Install the Third Reality App in your Homey App.
2. Install the batteries. press the reset button until the LED turns red and release. The LED turns blue and flashes, indicating that it is in pairing mode. It will exit Zigbee pairing mode after 3 min if not-paired.
3. Tap "+" in the Devices, tap → "New Device" → "Third Reality" → "Temperature and Humidity Sensor Lite" → "Connect" and follow the instruction to add device.
4. After the pairing is successful, you can see details and create routines on the "Device" page.



×

# Make It Your Own

Personalize your device.



Tempera  
ture and H...

Name

Temperature and Humidity Sensor Lite

✎

Icon



>

Zone

 Office Buildings

>

Status Indicator

°C

>

Finish

## Devices



21.3 °C

Smart Soil  
Moisture S...



21.6 °C

Smart Soil  
Moisture S...



Smart  
WaterLeak ...



Smart  
WaterLeak ...



24.5 °C

Temperature  
and Humidi...

▼

Temperature and Humidity...



59 %  
Humidity



24.5 °C  
Temperature



# FCC Regulatory Conformance

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.

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

NOTE: 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 important announcement.

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.

## RF Exposure

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

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

## Limited Warranty

For limited warranty, please visit

<https://thirdreality.com/faq-help-center/>.

For customer support, please contact us at [info@3reality.com](mailto:info@3reality.com) or visit [www.thirdreality.com](http://www.thirdreality.com).

For question on other platforms, visit for corresponding platform's application/support platforms.

# ISED Statement

- English: 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. The digital apparatus complies with Canadian CAN ICES - 3 (B)/NMB - 3(B).

- French: 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

# Radiation Exposure Statement

This equipment complies with Canada 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 Canada limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.

Caution:

(i) 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:**

(i) les dispositifs fonctionnant dans la bande de 5150 à 5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;