



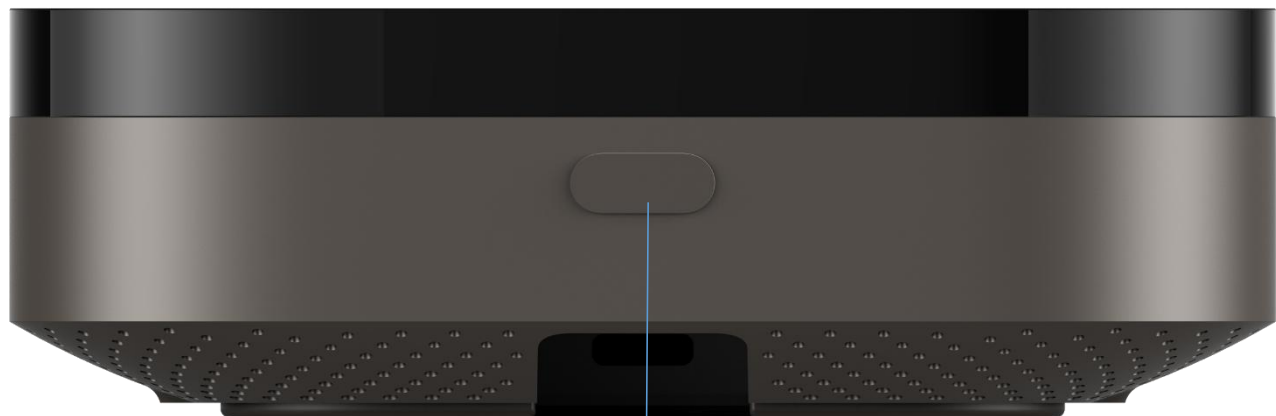
Aqara Hub M3 Introduction

continuous connection

Aqara Hub M3 Overview

The Hub M3 prioritizes privacy and local automations, that now can function without the internet or even the hub itself. It features versatile connectivity, including dual-band Wi-Fi and PoE, as well as a 360° IR blaster that can link your AC to Matter and adjust it based on real-time room temperature from the Climate Sensor. As a powerful multiprotocol hub, it seamlessly integrates Aqara and, for the first time, third-party Matter devices, serving as a central point for smart home automation while ensuring privacy and easy setup.

Next-generation Matter controller for Aqara and third-party devices with a focus on Edge Computing



Reset button



Core Features of Aqara Hub M3



Edge Computing and Local Storage
(Focus on privacy)



Zigbee Hub and Matter Bridge
(Zigbee device and matter over thread device support)



Multiple Protocols Support
(Wi-Fi, Zigbee, BLE, Thread, IR)

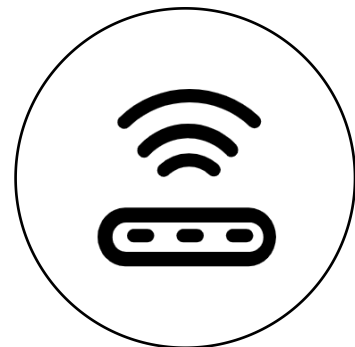
THIRD



3rd Party Devices Support
(Support part of 3rd party device)



Hub Replacement Support
(Support device migration from older Aqara hubs)



Built-in 360° IR blaster
(Exposes the connected IR air conditioning units to Matter)



Wired and Wireless Connectivity
(Ensure unmatched stability in its performance.)



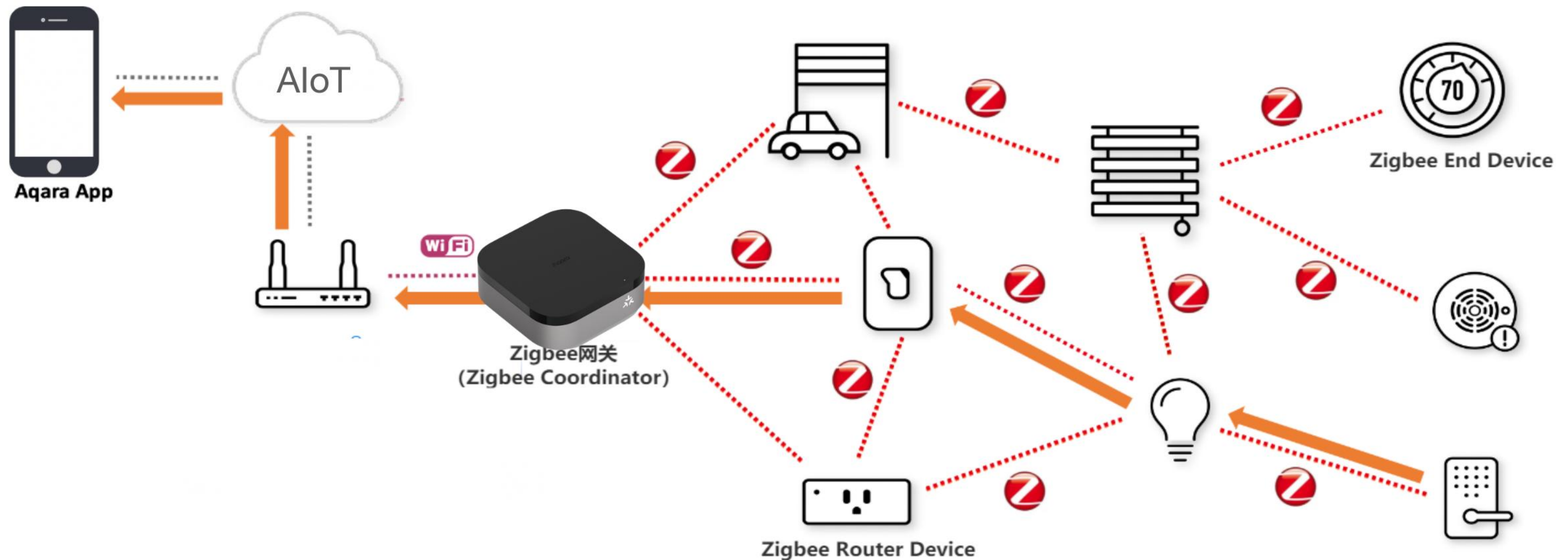
Dual Power Supply Design
(PoE & Type-C)



*Easy Installation and Flexible Placement
(Hub M3 can be installed on the wall or even on the ceiling)*

Hub for Aqara and 3rd Party Device

Hub M3 can work as a Zigbee coordinator. And it supports the maximum sum of 127 Thread / Zigbee devices. To achieve the maximum number of connected devices, repeaters should be used.



Hub for Aqara and 3rd Party Device

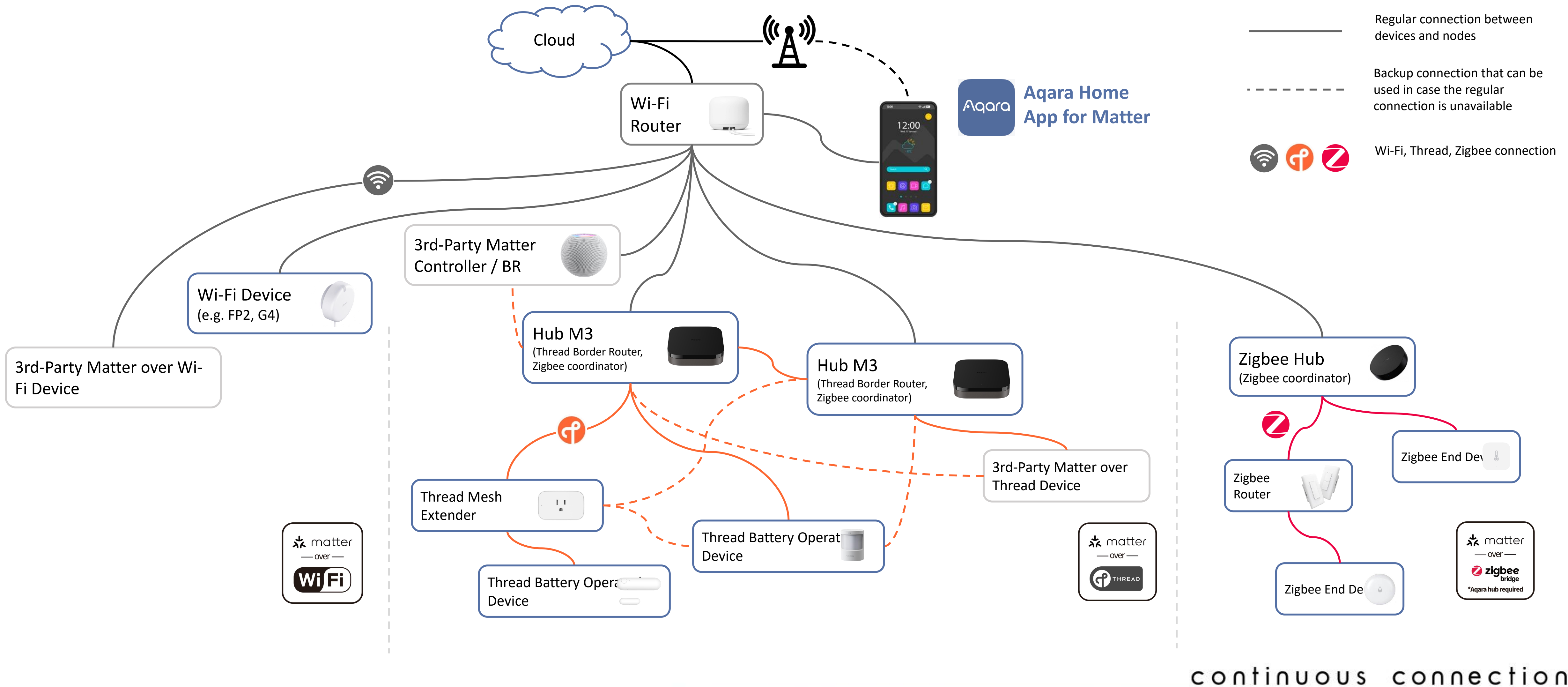
Being a powerful multi-protocol hub for Aqara devices, the M3 not only supports all the classic lineup of Aqara Zigbee products, and it also serves as a Matter bridge for them.

*Please check the Aqara official website for the list of Aqara Zigbee devices exposed to Matter.

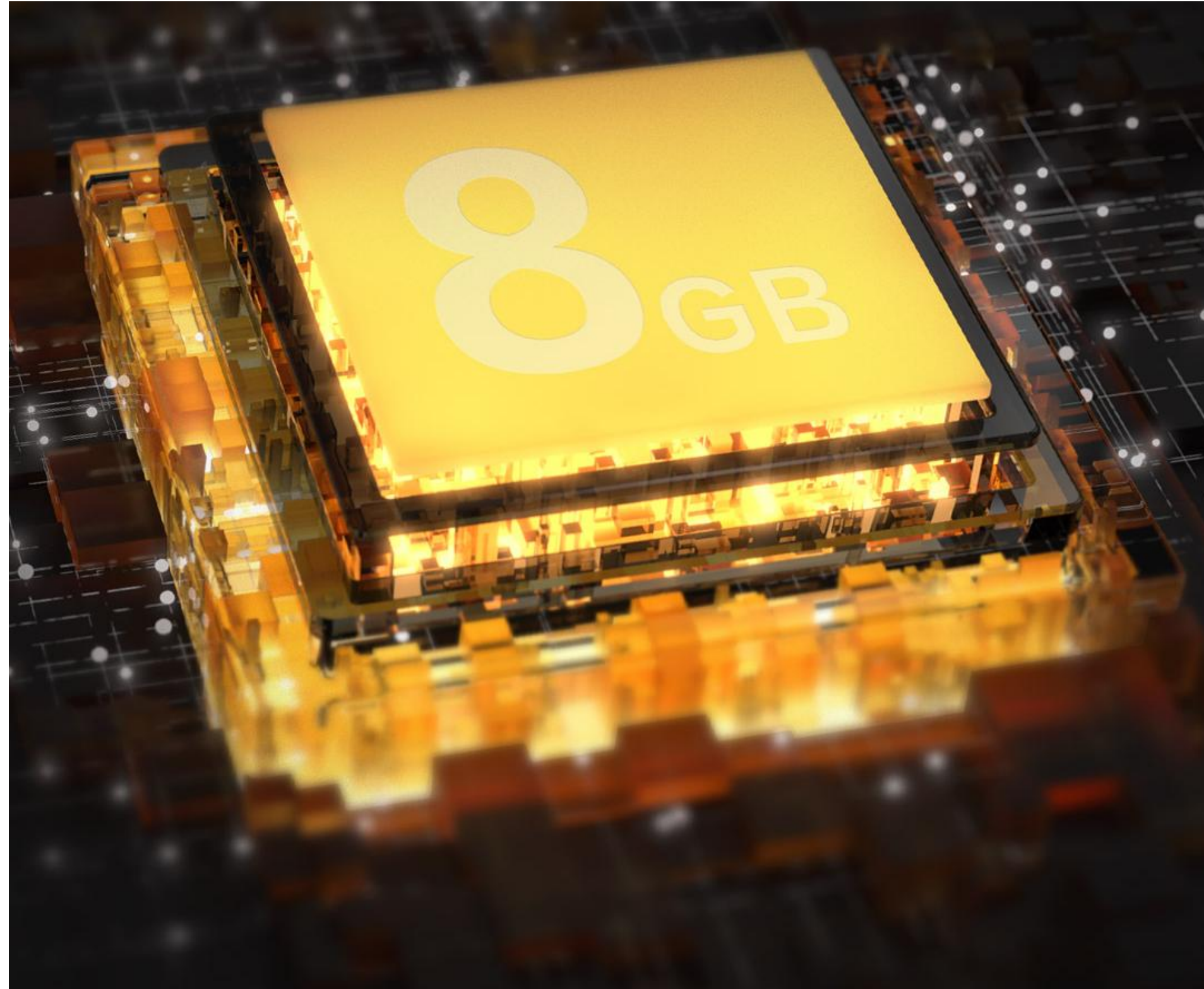


Hub for Aqara and 3rd Party Device

And Hub M3 supports to integrate the newest Aqara Thread devices and, for the first time, connects a number of third-party devices to Aqara Home app. Please note that 3rd party device support is limited, only covers selective brands, and will be improved over time.



Edge Computing and Local Automations



Hub M3 has 8GB eMMC local storage

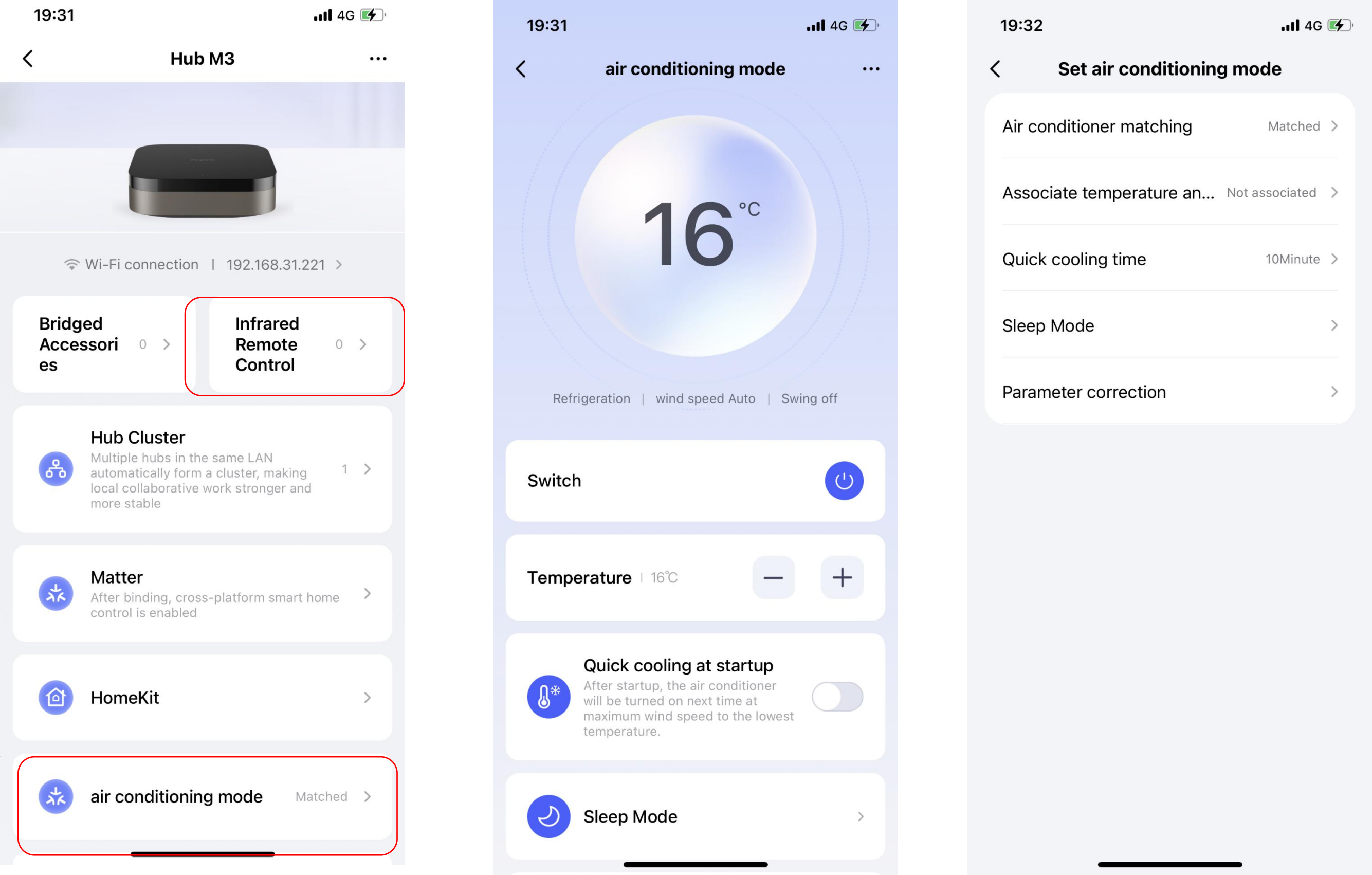
The M3 is an Edge Hub - a new generation of Aqara hubs with the focus on local control and automations. After adding it to the network, it takes a lead over existing Aqara hubs and makes the automations between them local*

*Some automations such as cloud push notification will still require the cloud connection to be executed

Privacy protection: Compared to many other border routers such as smart displays or speakers, the M3 doesn't have neither a microphone nor a camera, which will eliminate practically any privacy concern. Also, it has a local, end-to-end encrypted storage for logs and other data, to make sure that everything that happened at home, will stay there.

IR Function of Hub M3

Thanks to the built-in 360° IR blaster, that can now not only send the commands, but also identify when a conventional IR remote was used for better status detection. Also, it exposes the connected IR air conditioning units to Matter*, and can be used as an AC thermostat when connected to an Aqara Climate Sensor.



- 1. M3 supports to match 1 main air conditioner and can receive infrared codes to update air conditioner status;
- 2. The main air conditioner can be connected to Matter

*The functionality of IR AC units exposed to Matter apps may vary depending on the particular app
 NB: Only one device of the AC type can be exposed to Matter
 By the time of the launch, Apple Home, Alexa, Google Home, SmartThings AC support is confirmed

IR Function of Hub M3

The infrared air conditioner is mapped to Matter's Thermostat, which supports temperature adjustment, mode setting*, and fan speed adjustment*.

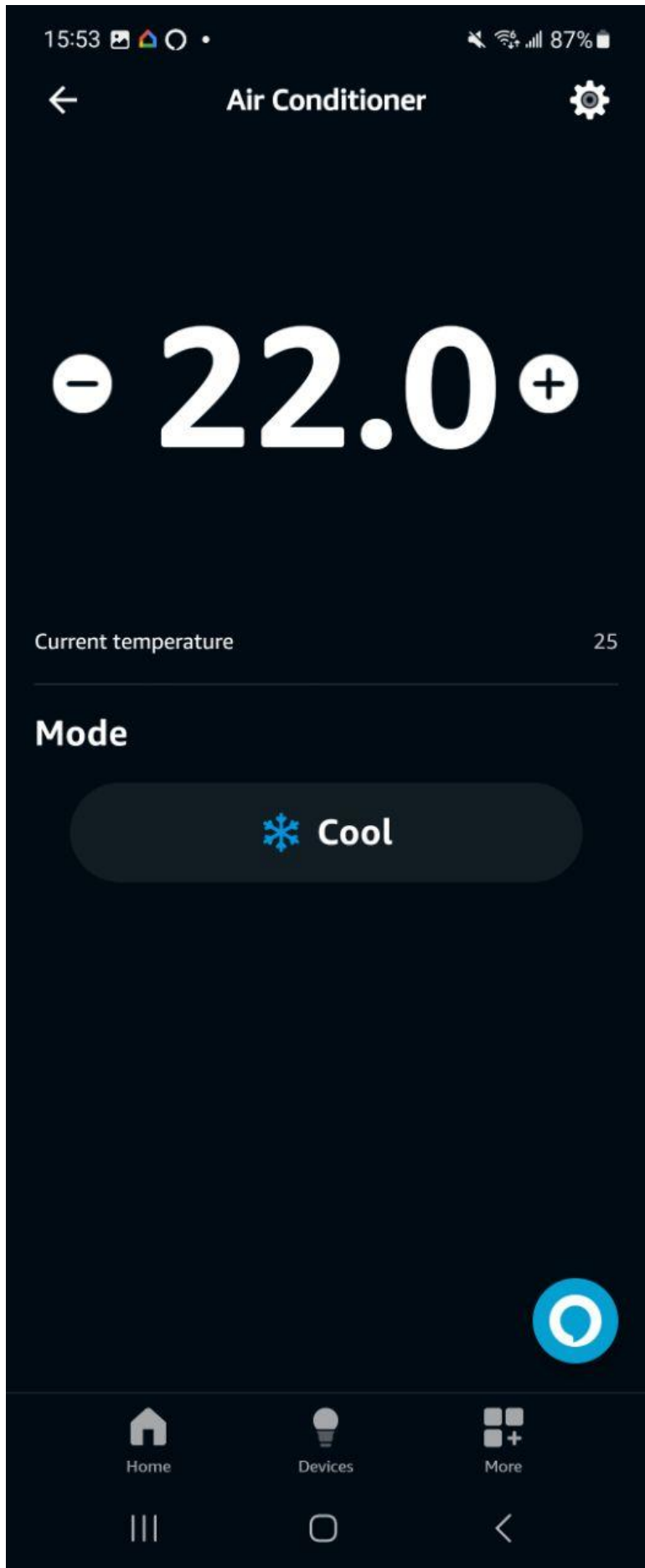
*Due to Thermostat mode limitations, it only supports three modes: turning off, cooling, and heating, but “Turning on” is not supported.

*Whether it supports adjusting wind speed depends on the third-party ecological platform. Currently, Apple Home is not supported and other platforms are to be tested.

Matter infrared air conditioner is not forced to bind the temperature sensor.



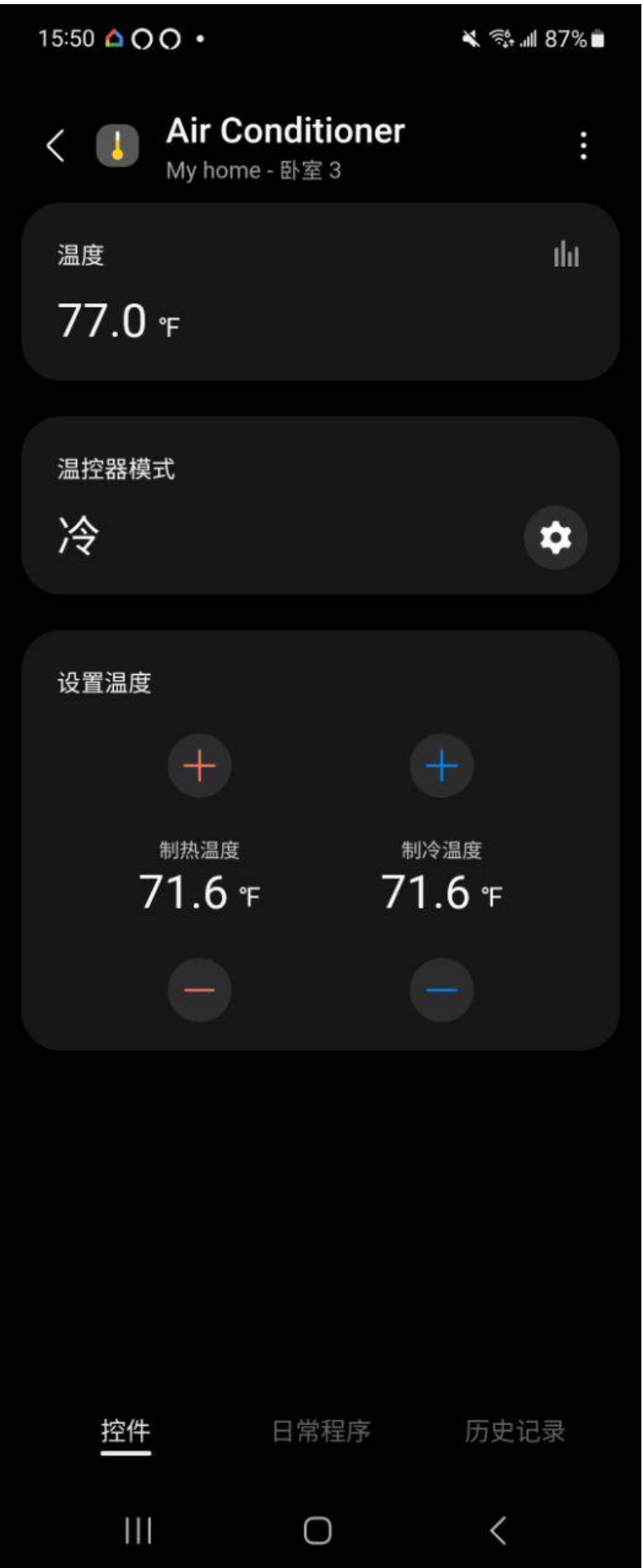
Apple Home



Alexa



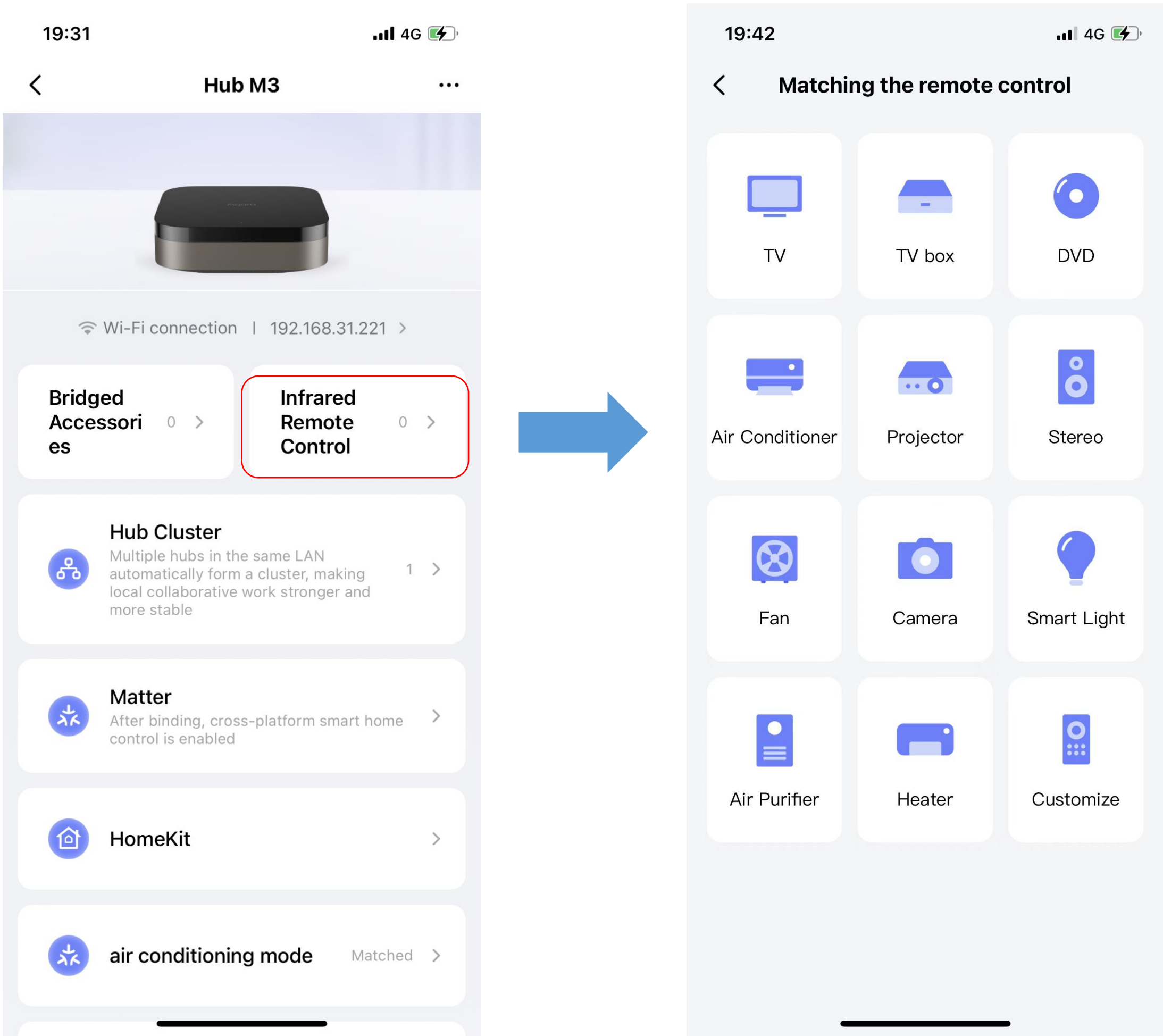
Google Home



SmartThings

IR Function of Hub M3

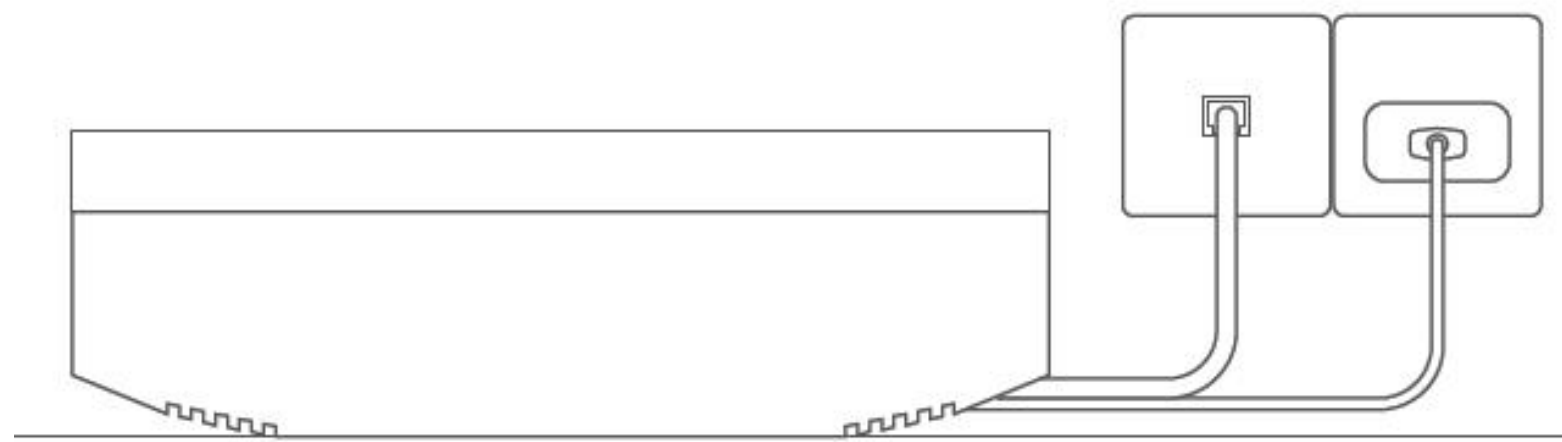
M3 supports to match multiple other electrical appliances and infrared codes learning, and those appliances (including air conditioners) do not support connecting to Matter.



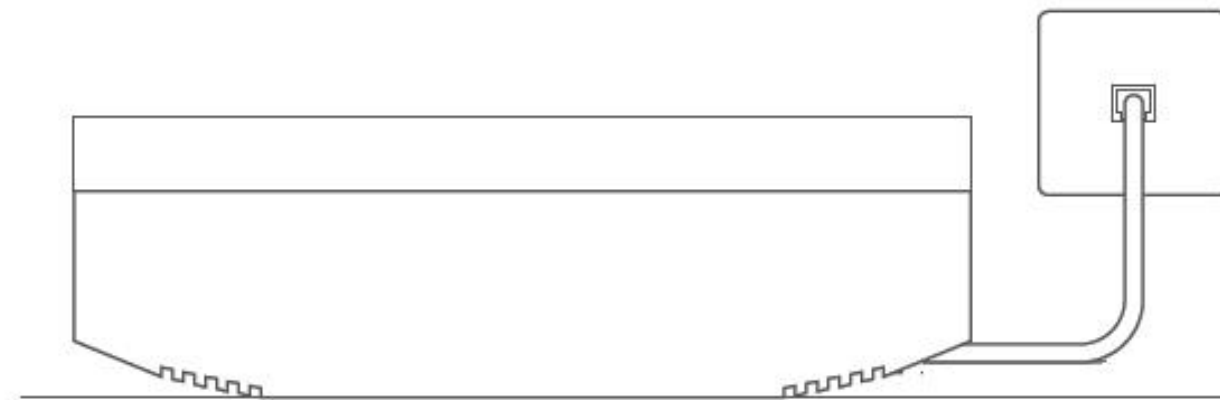
Multi-Communication Ways and Power Supply

The M3 boasts versatile connectivity options, featuring dual-band Wi-Fi (2.4-5GHz) enhanced with robust WPA3 security, and a POE-compatible Ethernet port. Its integrated USB-C port also supports mini-UPS and power banks, ensuring unmatched stability in its performance.

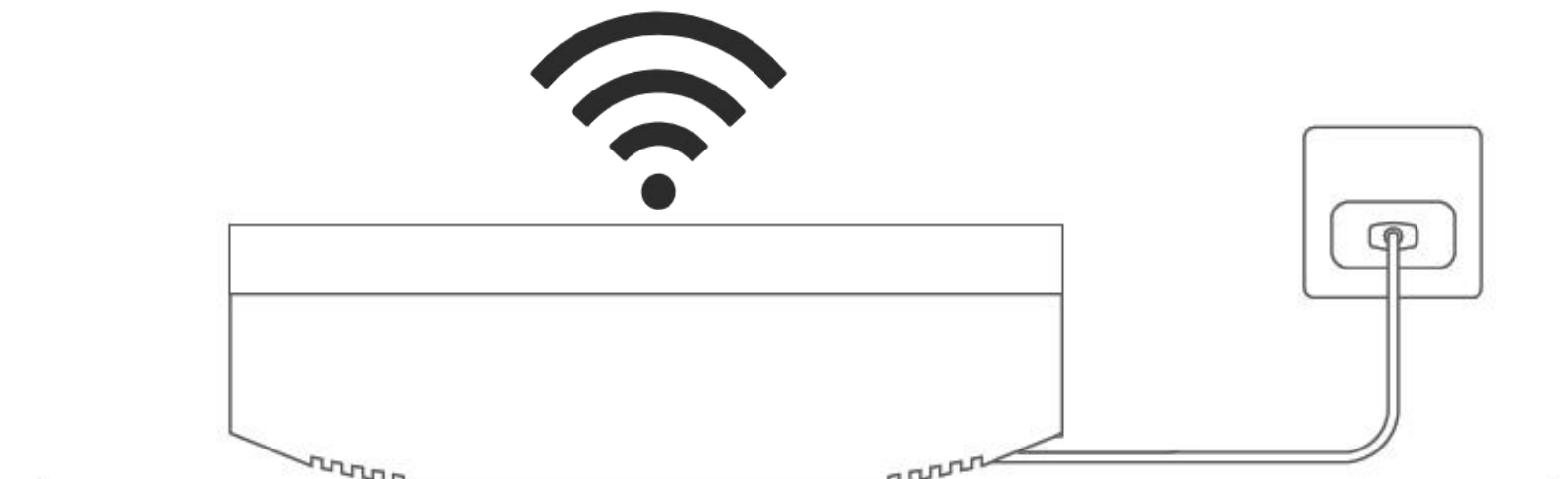
*2A USB power adapter is not included.



Wired **RJ45** connection +
Power supply by **Type-C**



Wired **RJ45** connection +
PoE



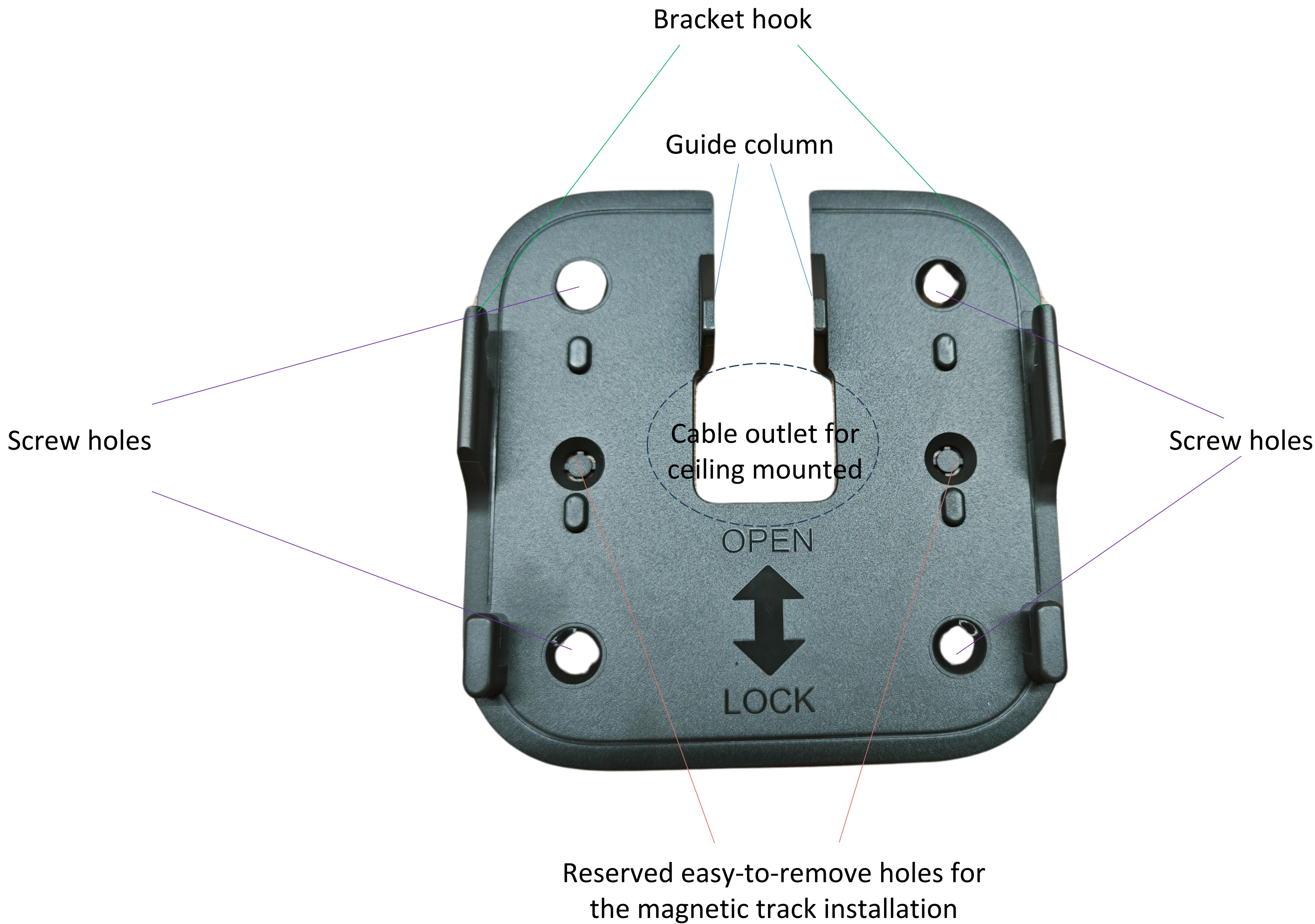
Wireless connection (**Wi-Fi**) +
Powered by **Type-C**

Easy Installation and Flexible Placement



Easy Installation and Flexible Placement

Hub M3 supports wall-mounted, ceiling-mounted and magnetic rail installation. Please make sure the bracket hook is facing upward when choose the wall-mounted. When remove the M3, please slide the M3 device in the OPEN direction, and users can also slide the M3 device in the LOCK direction to lock it.



Put the M3 on the desired position



Ceiling mounted

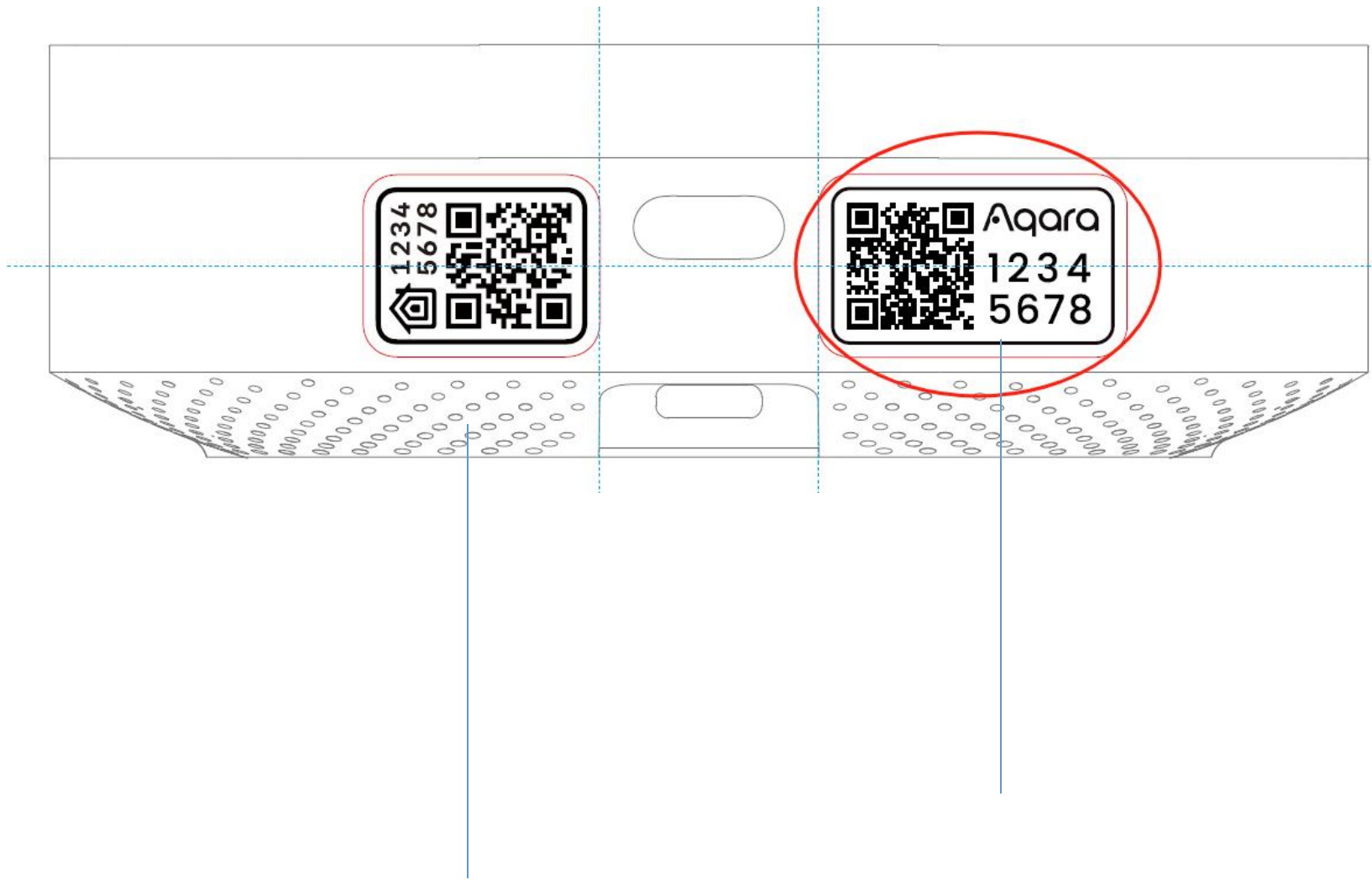


wall mounted

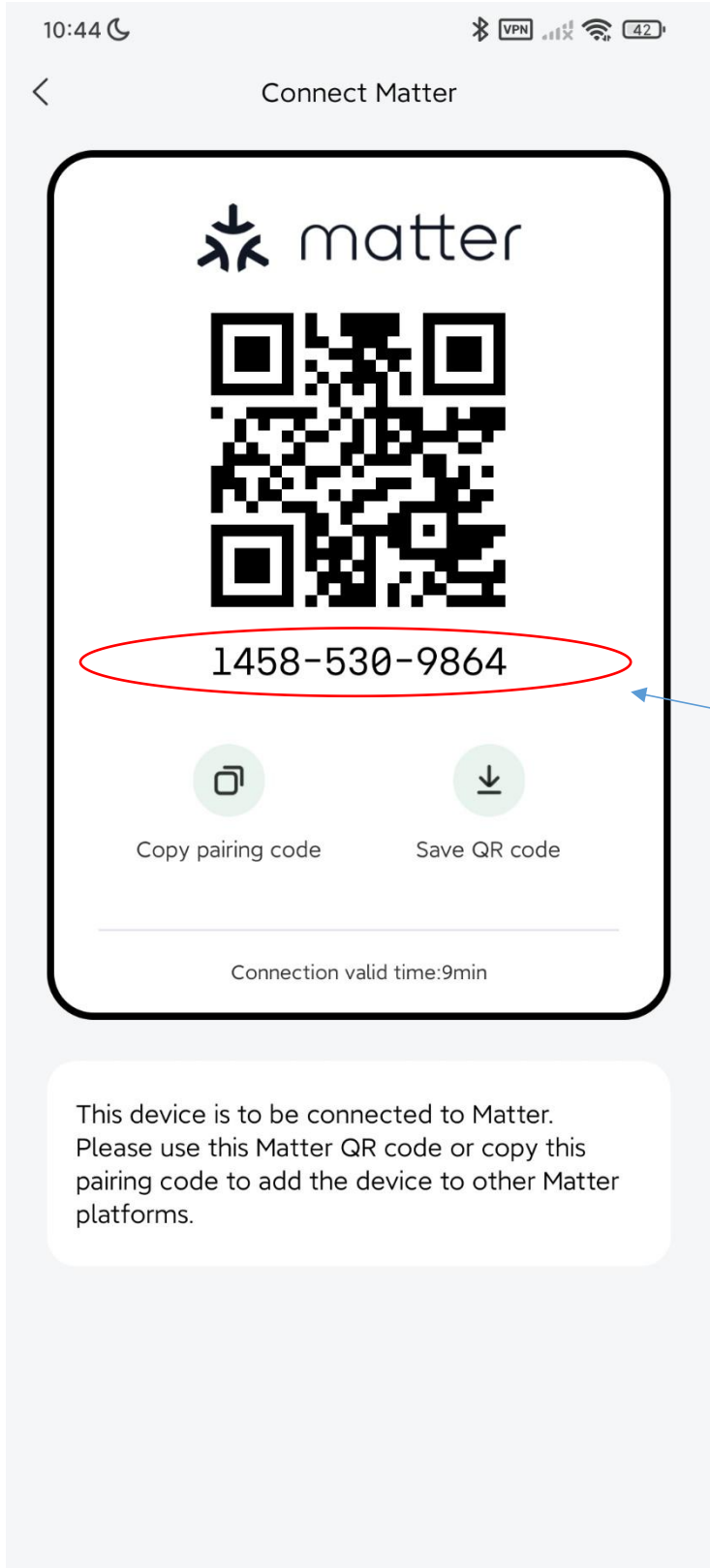


QR Code for Device Pairing

There are HomeKit QR code and MagicPair QR code on the product, which are used for HomeKit and Aqara IOT pairing respectively. In addition to the above two QR codes, the user manual also has an additional Matter QR code. This code is the same as the Matter QR code on the APP.



HomeKit QR code MagicPair code



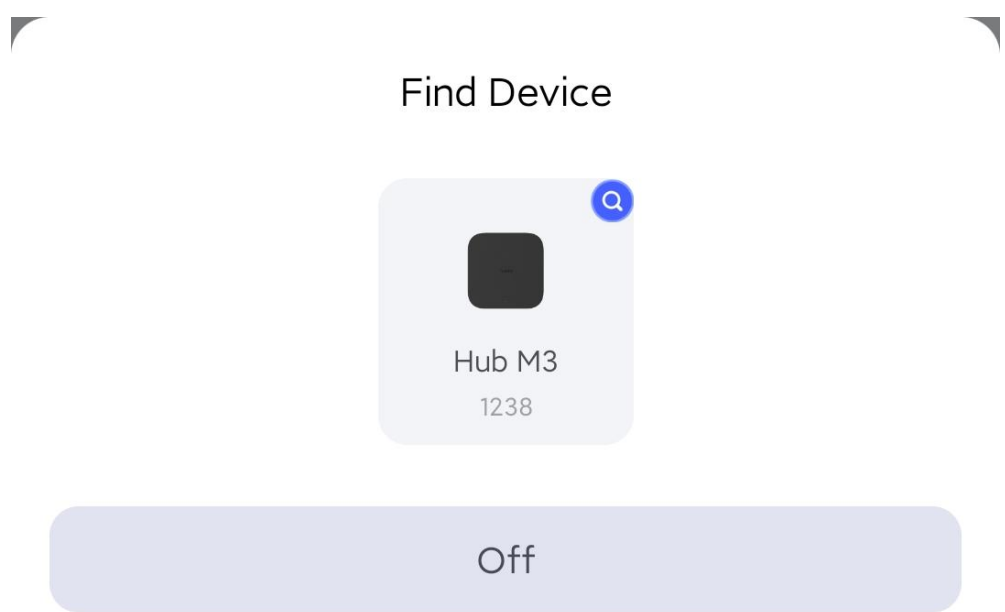
Matter code on Aqara
Home APP



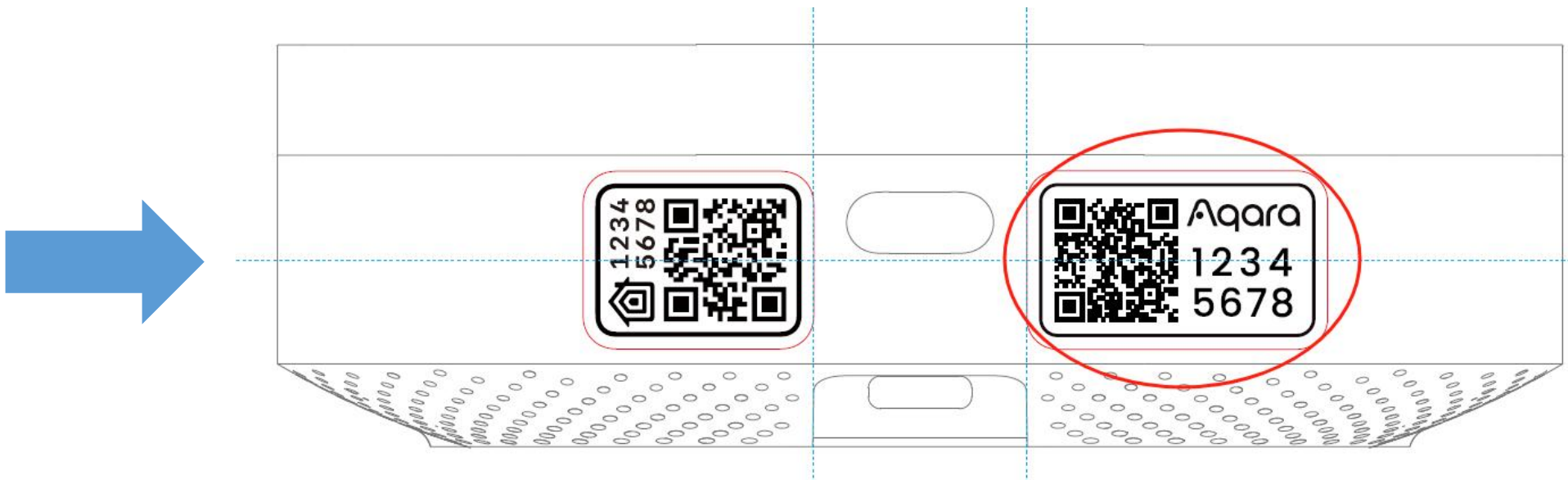
Matter code on user manual

MagicPair for Device Pairing

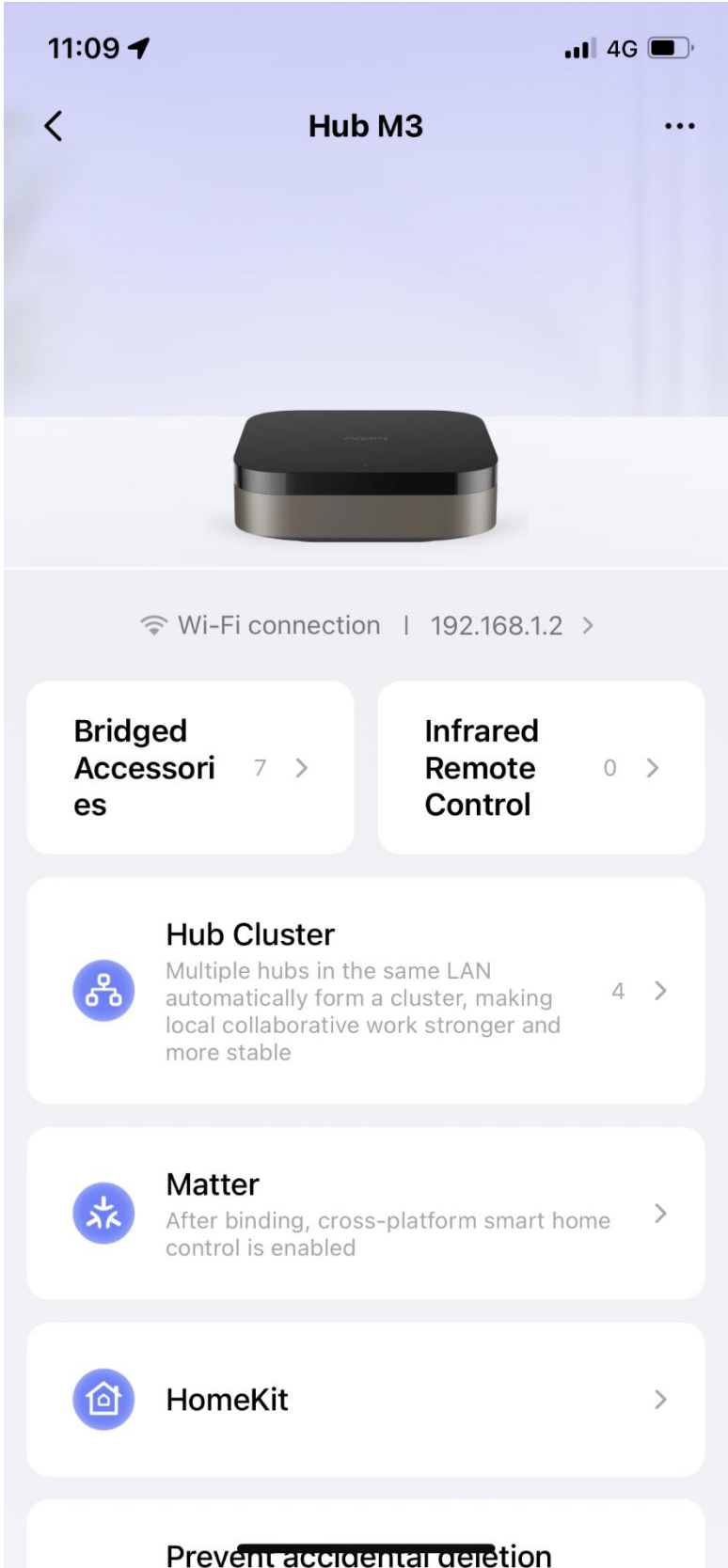
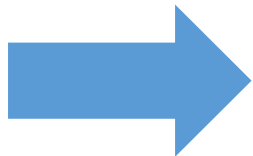
This product is defined as a security device and supports device pairing by MagicPair. After **Bluetooth** discovers the device, the users need to scan the MagicPair QR code on the device for secondary confirmation before adding it.



1. Discover the device



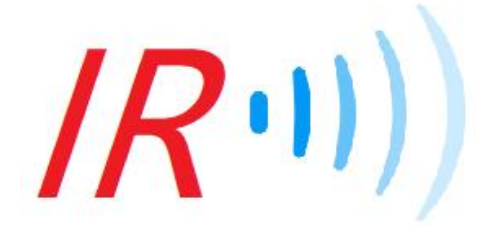
2. Scan the MagicPair code



3. Bind the device

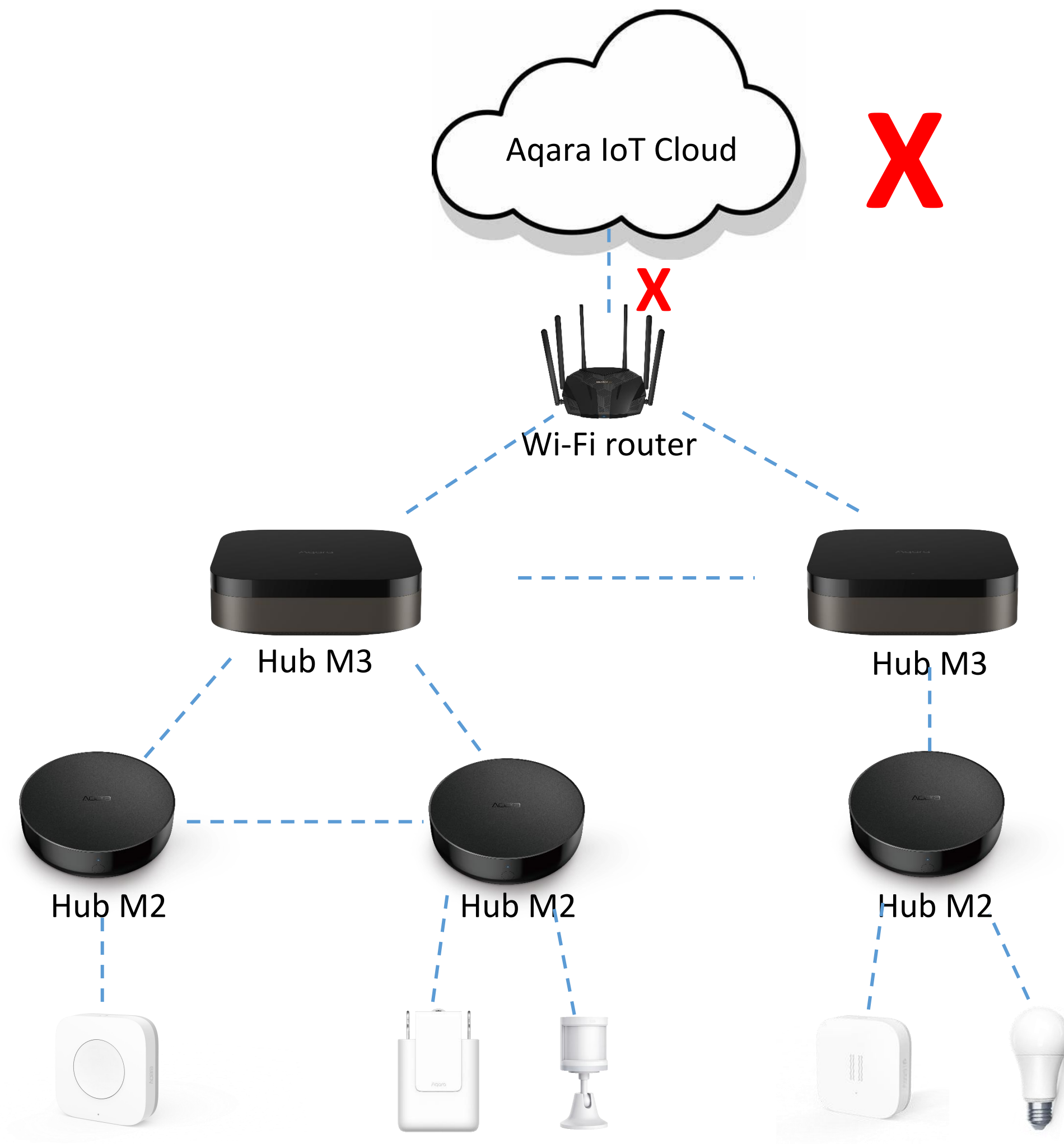
Multi-Wireless Protocols Support

Hub M3 supports Wi-Fi, Zigbee, Bluetooth, Thread, and IR protocols. Hub M3 adopts a more scientific radio frequency position layout. The radio frequency modules are distributed at the four rounded corners of the product, ensuring sufficient isolation of the antenna while also improving sensitivity and antenna efficiency, ensuring that Hub M3 supports stable connections for a wider range of wireless devices.



Local Automations

M3 can work as hub and leader. It supports the traditional local automations and executes those automations that the conditions across multiple gateways locally.



IF
Press the wireless button

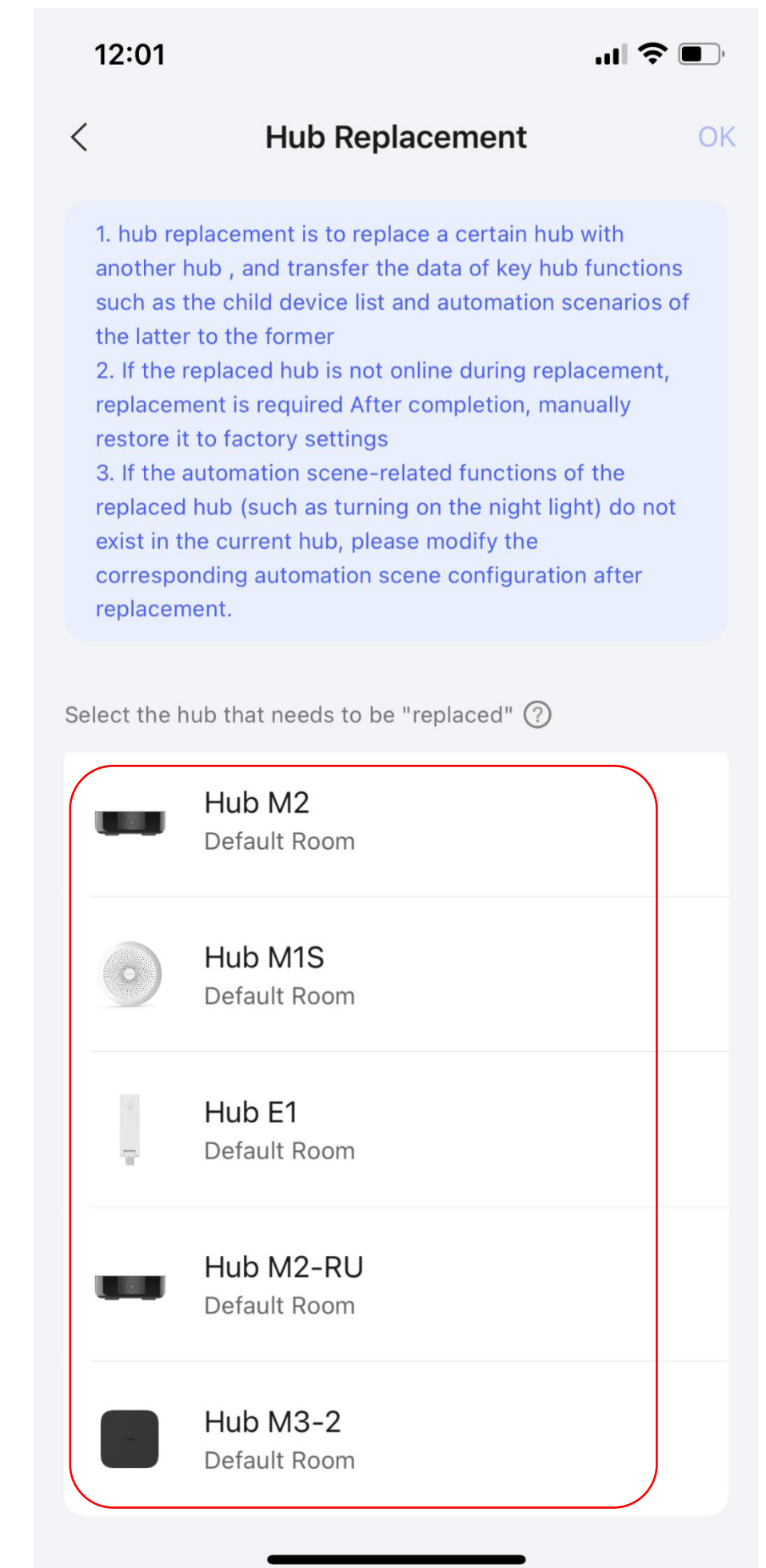
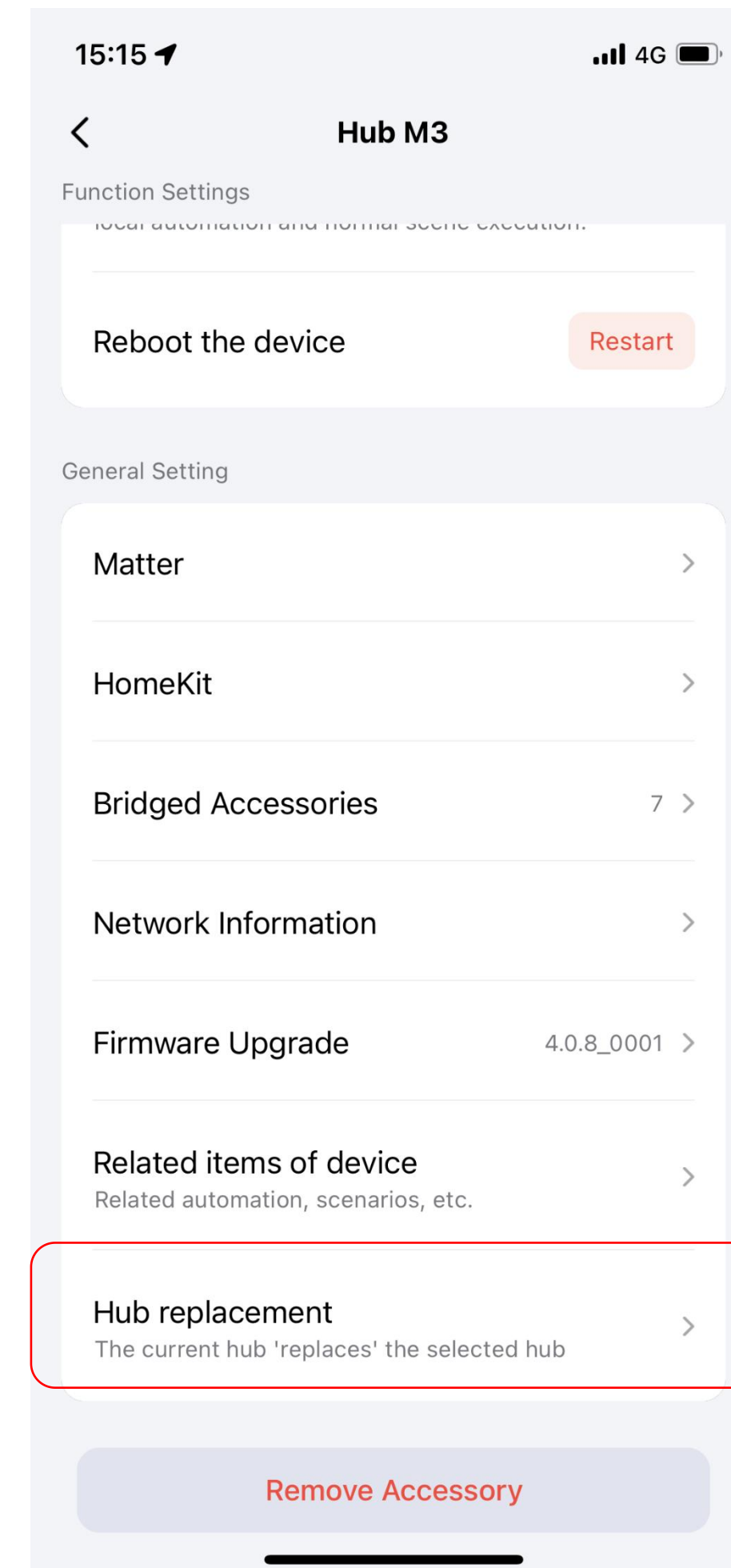
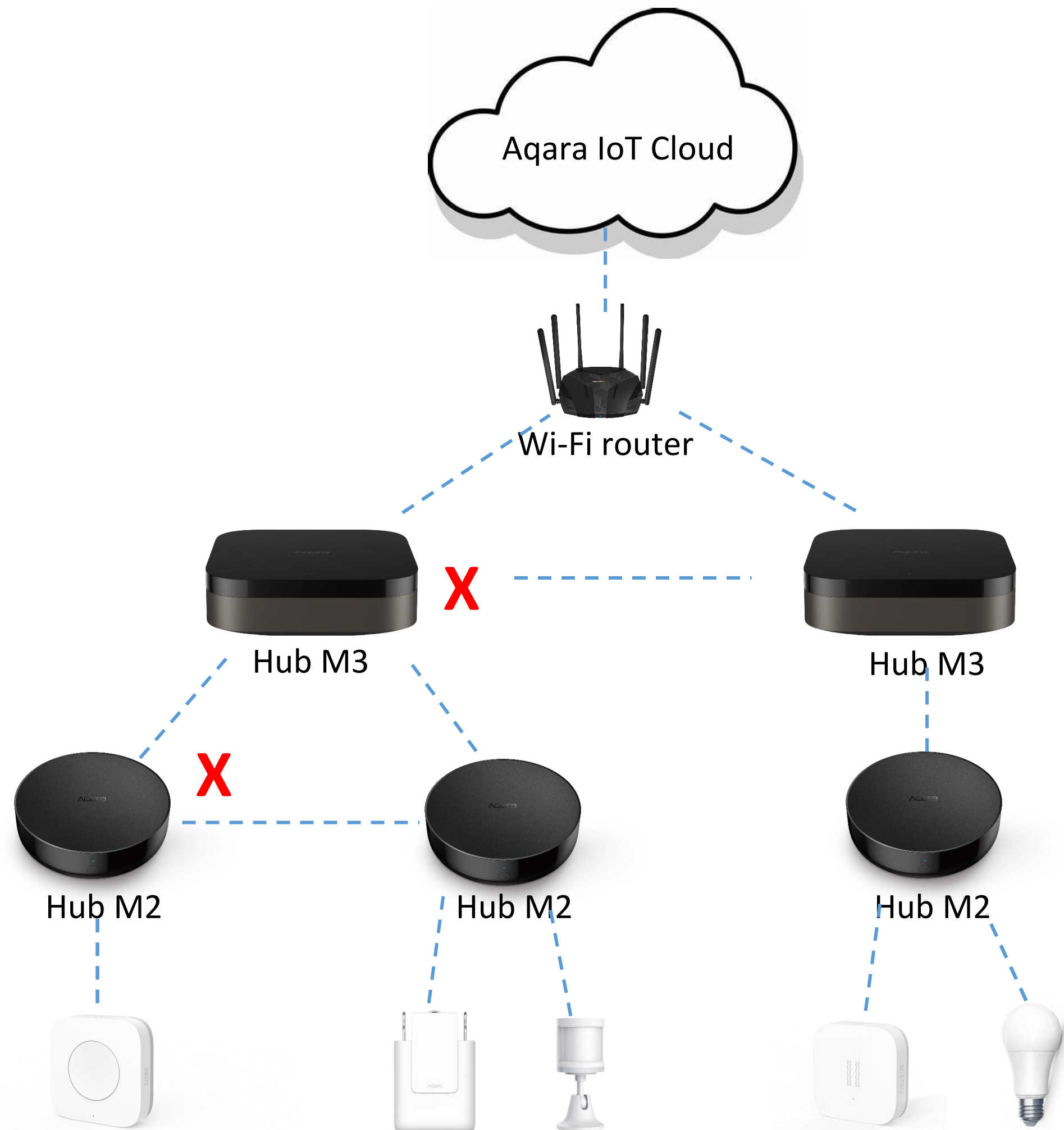
And
The curtain is closed

Then
Turn on the light

Hub Replacement

Hub M3 is upgrade-friendly: it supports device migration from older Aqara hubs, which will let you enjoy cutting-edge networking without reconnecting the devices one by one.

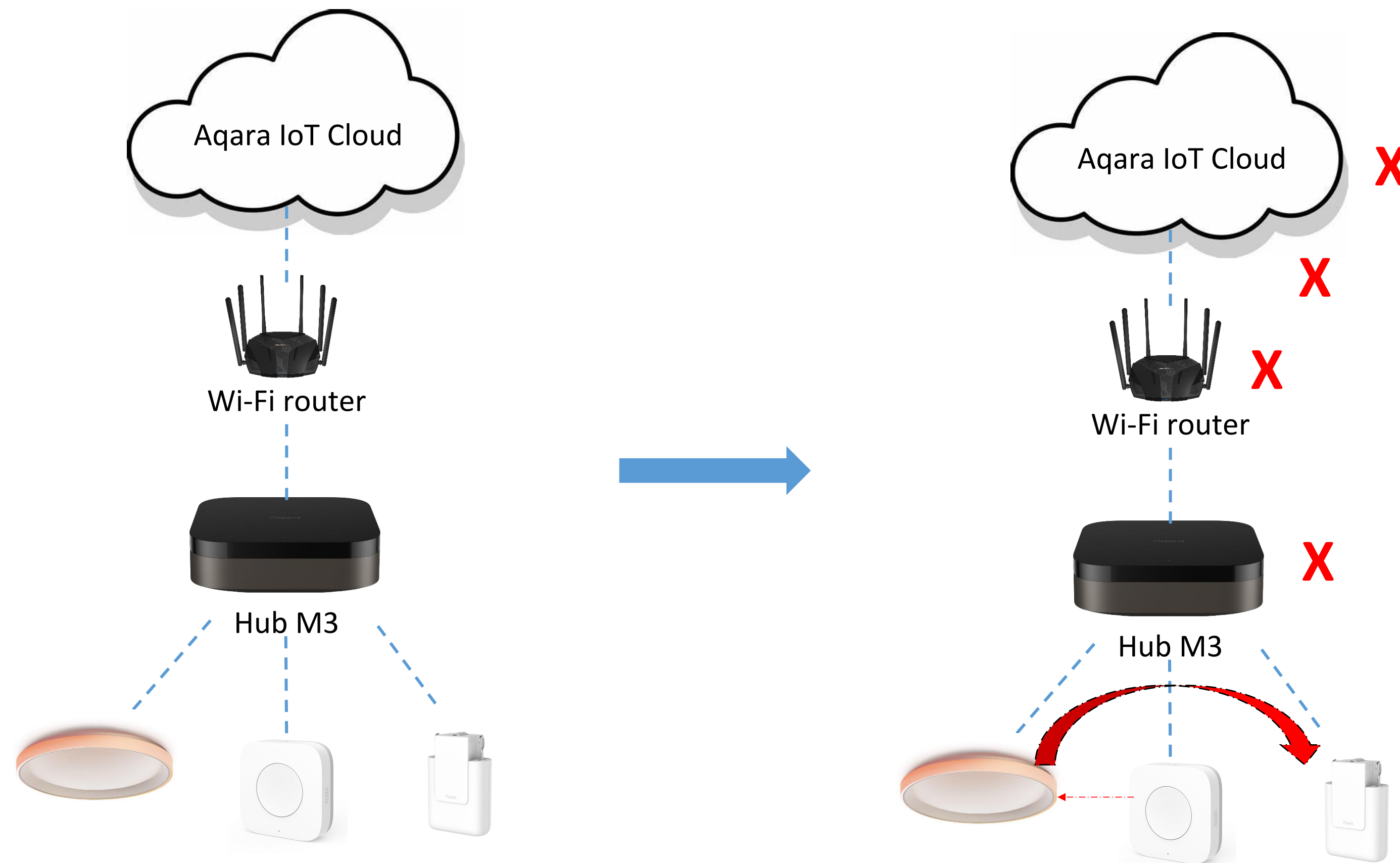
*Older hubs such as Camera Hub G2H and the classic Aqara Hub don't support this functionality.



Device Binding

Some child devices can execute simple automations even in case the Hub M3 fails. This feature guarantees unprecedented stability and convenience, for example, the automation of controlling the light with a wireless switch can be executed even when the M3 is unavailable.

Zigbee: a limited number of devices such as Ceiling Light T1M and LED Strip T1 can act as a proxy hub, and execute automations directly

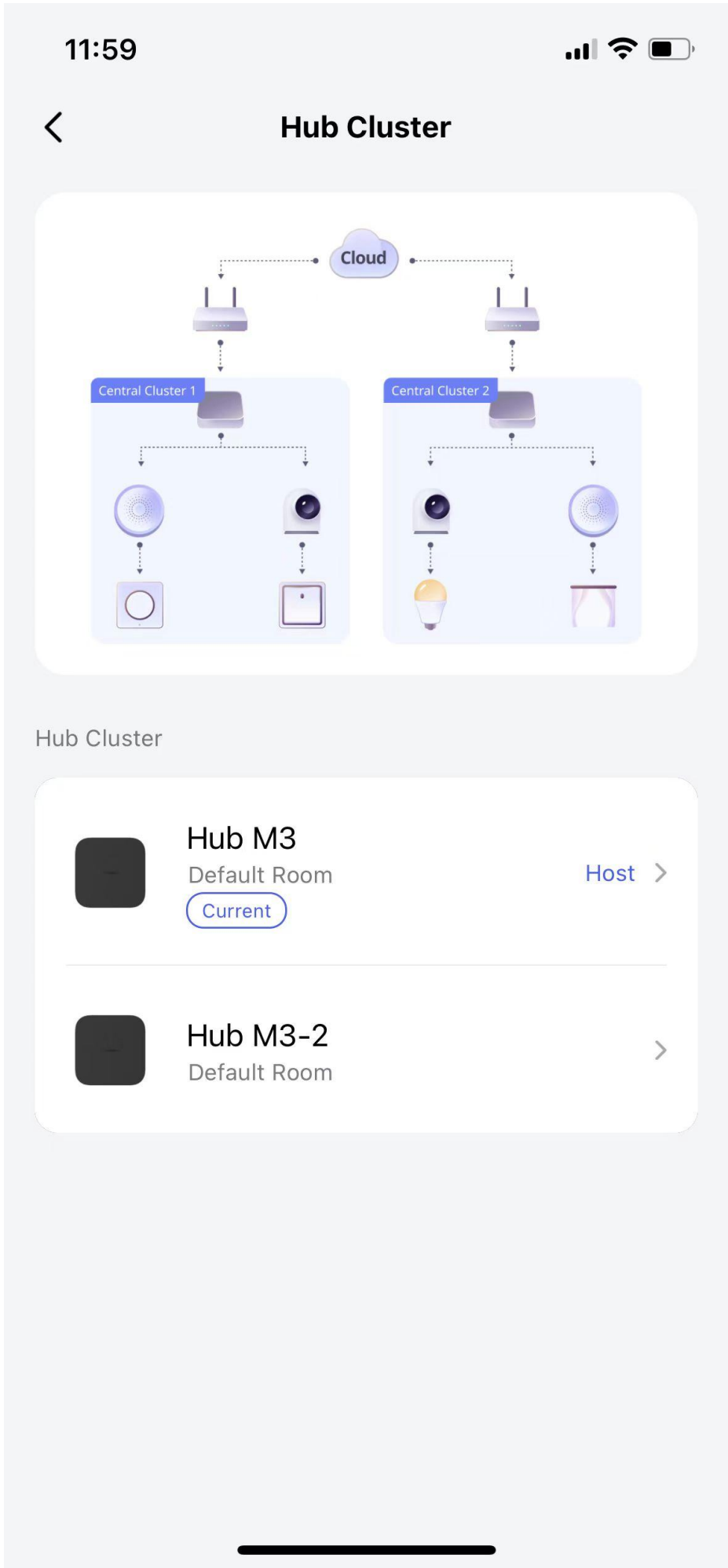


IF
Press the wireless button

Then
Close the curtain

Leader Selection

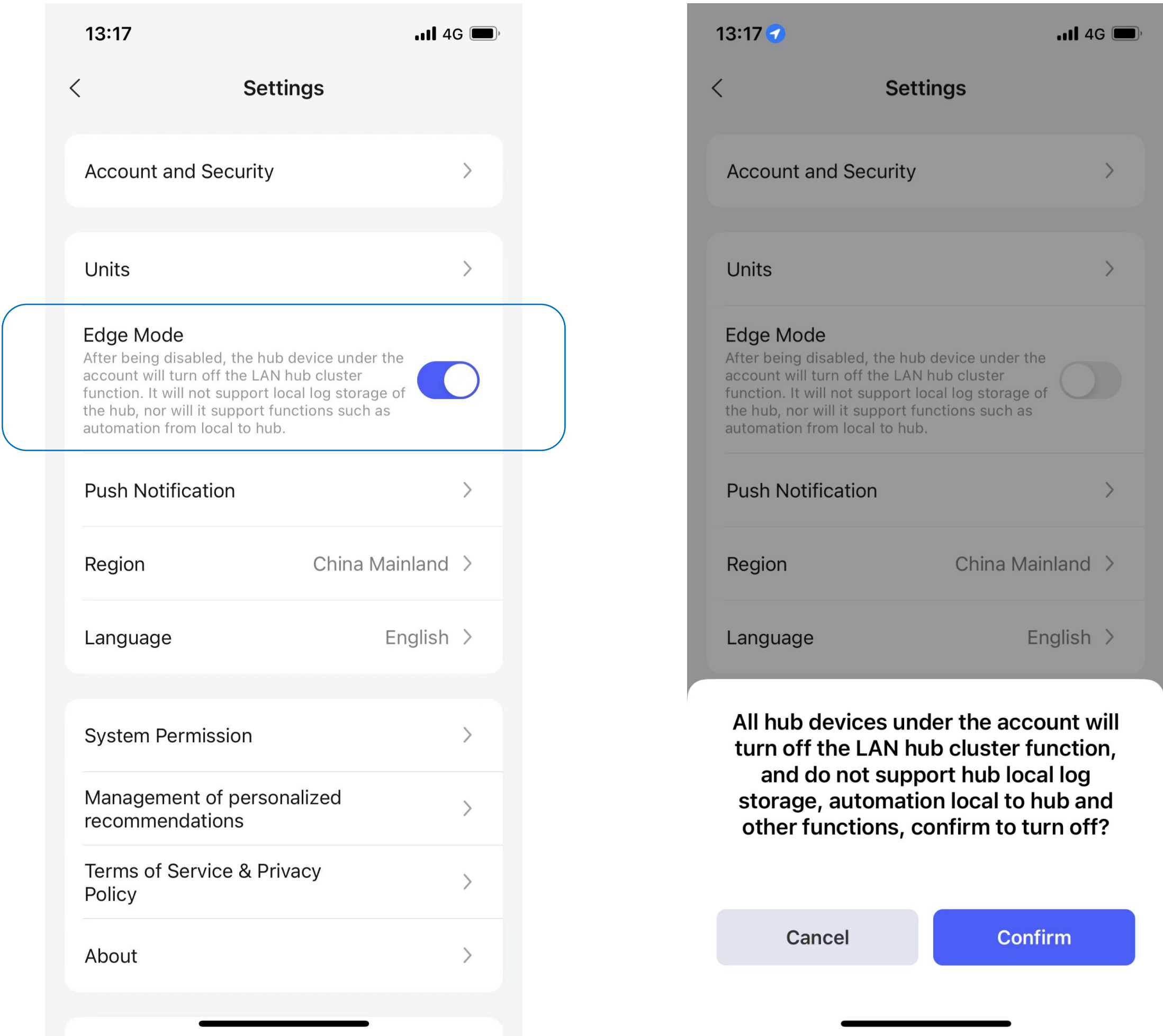
When there are multiple M3 devices in the same hub cluster, there will be only one leader in this cluster. The leader cluster will elect the most suitable one through a series of automatic evaluation mechanisms (including networking methods, load idleness, signal communication quality, etc.) .The main leader collaborates with other leaders to work.



The current Hub

Enable the Leader Function

The users can enable or disable the leader function (On by default) of Hub M3 on Aqara Home App. If the users disable this function, then Hub M3 will work as an ordinary gateway.



Hub M3 Typical Scenarios

1	Heading	M3 is a perfect addition of your existing Aqara setup
	Description	If you have used Aqara Home and Aqara hubs before, you will have two options: either make M3 lead other Aqara Zigbee hubs, which will enhance their local automation capabilities, or to migrate all the Zigbee Aqara devices to the M3 and make your setup even more robust.
	Devices	Hub M3 + Aqara Zigbee Hub (such as M2)
2	Heading	Fully functional air conditioning thermostat by simply connecting a Climate Sensor
	Description	Thanks to the built-in IR blaster, the M3 can control your existing IR devices, such as an Air Conditioner. By connecting an external Aqara Climate (Temperature and Humidity) Sensor, you will be able to trigger automations based on the actual temperature of your room and expose this AC to third-party apps such as Apple Home, Amazon Alexa and Google Home via Matter.
	Devices	Hub M3 + Climate Sensor
3	Heading	Easy energy savings based on a precise presence detection
	IF-THEN	IF Absence is detected in on the first floor THEN Set first floor thermostat to energy-saving mode
	Description	Achieve substantial energy savings with the unique Aqara Presence Sensor, that will trigger your thermostat right after you leave the room or floor. And of course, the automations will run locally, which will ensure rock-solid stability.
	Devices	Hub M3 + 3rd Party Thermostat + Presence Sensor FP2

Aqara Hub M3 Specification

Model	HM-G01D / HM-G01E
Dimensions	105 × 105 × 36.5 mm (4.13×4.13×1.44 in.)
Power Input	5V ⎓ 2A
PoE Input	48V ⎓ 0.27A
Wireless Protocols	Wi-Fi IEEE 802.11 a/b/g/n/ac 2.4 GHz / 5 GHz, Zigbee/Thread IEEE 802.15.4, Bluetooth 5.1
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	0 ~ 95% RH, non-condensing
What is in the Box	Hub M3 × 1, User Manual × 1, USB-A to USB-C Cable × 1, Screws & Anchors Kit × 1, Bracket × 1

Comparison Between Hub M3 and Hub M2

	Items	M2	Hub M3	Remark
Hardware	Dual-band Wi-Fi	×	✓	Hub M3 supports both the 2.4G and 5G Wi-Fi network
	8GB eMMC local storage	×	✓	Distributed local storage for historical data (To be supported)
Software	Matter over Thread support	×	✓	Support Aqara matter device and part of 3 rd party device (Philips Hue Lights, Leviton Switches and Google Nest Thermostats)
	Thread boarder router	×	✓	It provides Thread capabilities to Matter hubs that do not support the Thread protocol, such as Apple Home Pod (1st generation). It can also extend the coverage of the Thread network and be used as a Thread router to further enhance your smart home network.
	Edge automations	×	✓	Execute the automations locally (Not all the automations)
	Aqara BLE device supported	×	✓	Hub M3 supports to add part of Aqara BLE device (To be supported)
	IR control	✓	✓	Compared with Hub M2, Hub M3 supports air conditioning control mode, infrared air conditioner access matter bridge
	MagicPair	×	✓	M3 is the first Aqara hub that supports MagicPair
	Hub replacement	×	✓	Hub M3 can replace other types of Aqara hubs and move their data to the new hub M3 (Only M3 can replace other hubs)
	App control in LAN	×	✓	Aqara Home App control the device in LAN (To be supported)
	Support proxy gateway	×	✓	The proxy gateway takes over the responsibility of the gateway for the execution of local automation when the hub failed.

THANK YOU