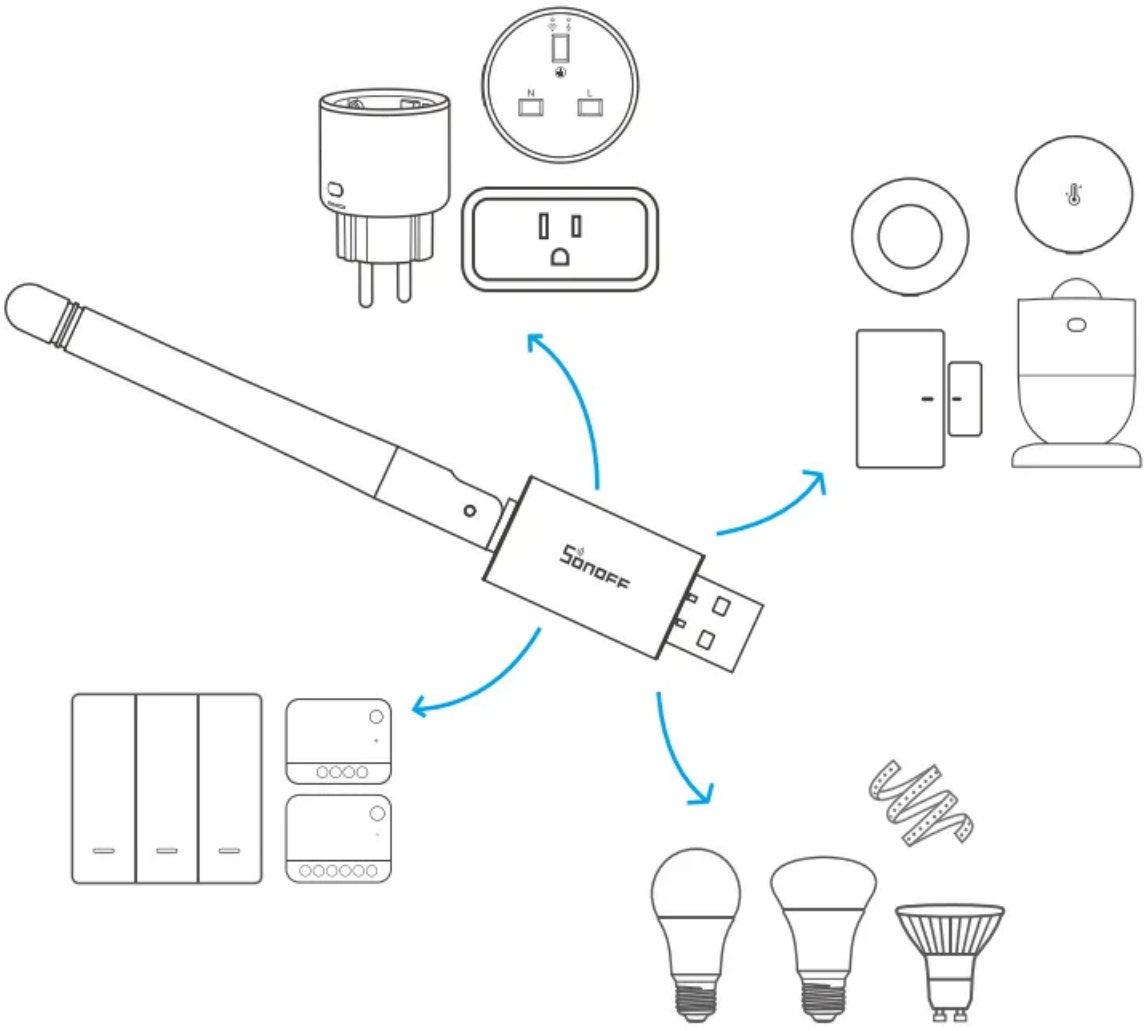
SONOFF Dongle Lite MG21 （Dongle-LMG21）User Manual

Product Information

Product Introduction

SONOFF Dongle Lite MG21 is a versatile Zigbee USB coordinator powered by the stable and reliable **EFR32MG21 chip**. It can be used as a Zigbee gateway in Home Assistant, openHAB, Zigbee2MQTT, or other open-source platforms to control all your Zigbee devices locally.



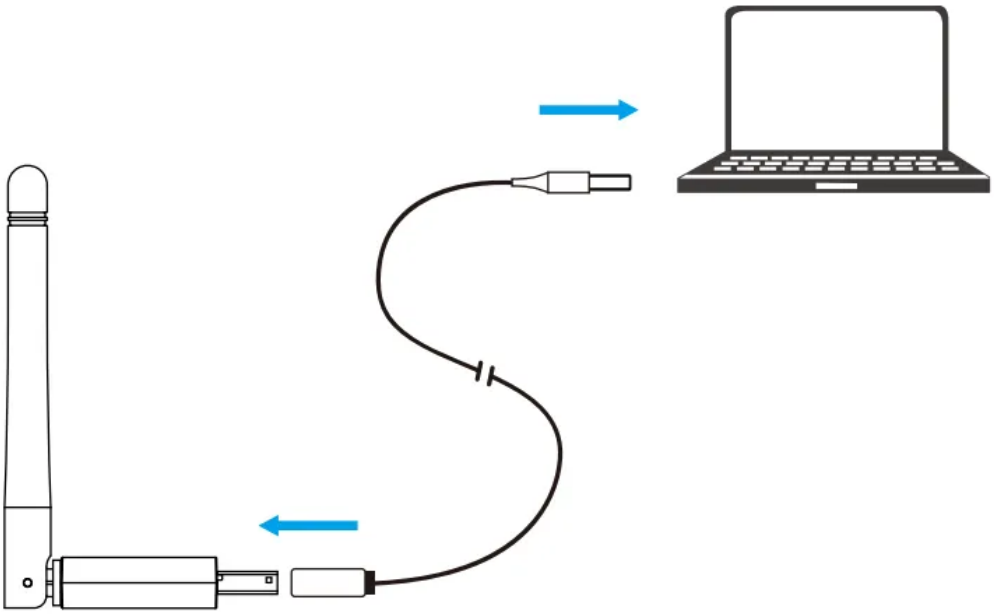
Appearance Display



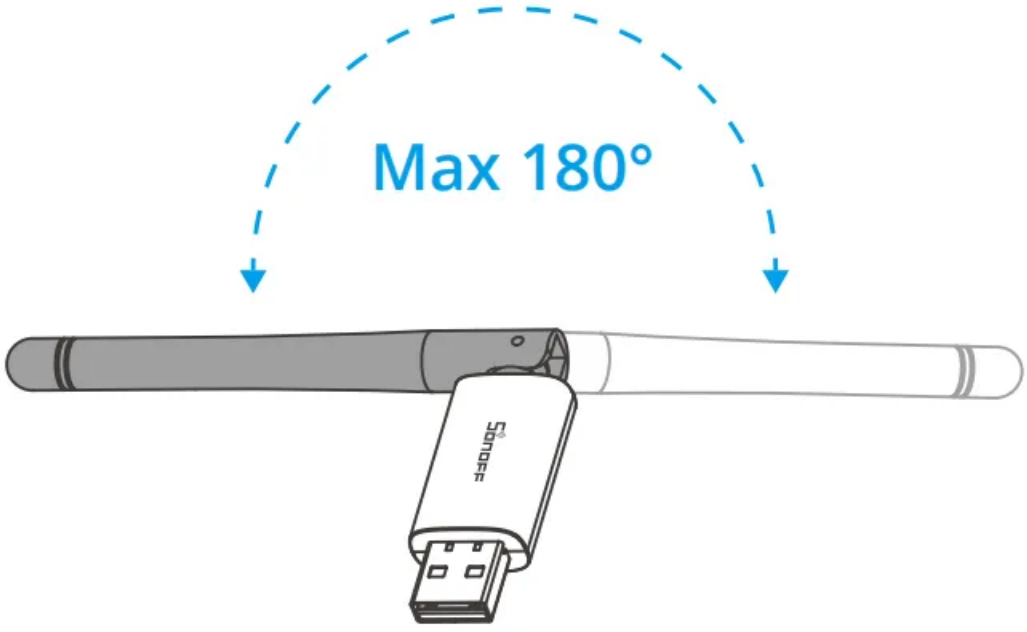
Package

- SONOFF Dongle Lite MG21
- USB cable extension (0.5m)
- Quick guide
- Packaging box

USB cable extension usage instruction



*The antenna has a limited rotation range and is recommended to be rotated within 180°. Do not force it if resistance is encountered, as excessive force may damage the antenna.



Hardware Specification

Model	Dongle-LMG21
Zigbee SoC	EFR32MG21

Input	5V⎓500mA
Casing materials	PC+ABS
Working Temperature	10℃~60 ℃
Working Humidity	5%–95%RH
Supported OS	Windows, Ubuntu, Raspberry Pi OS / Raspbian, Docker
Dimensions	133x18.6x10.1mm

Compatibility

Compatible Open-Source Platforms

Open-Source Platform	Supported
Home Assistant	✅
Zigbee2MQTT	✅
OpenHab	✅
ioBroke	✅
homeseer	✅
Domoticz	✅
Jeemom	✅

Compatible Devices

In theory, all Zigbee 3.0 devices are supported, including various lights, switches, and sensors from brands such as Philips Hue, IKEA Tradfri, Xiaomi Aqara, Ledvance Smart, Silvercrest, Schneider Electric, Nous, and SONOFF.
Actual device compatibility depends on the supported device list of each platform.

ZHA: https://www.home-assistant.io/integrations/zha

Zigbee2MQTT: https://www.zigbee2mqtt.io/supported-devices/
ioBroker: https://github.com/Jey-Cee/ioBroker.deconz
Domoticz:https://github.com/Smanar/Domoticz-deCONZ
Openhab:https://www.openhab.org/addons/bindings/deconz/
Jeedom: https://compatibility.jeedom.com/index.php?v=d&p=home&protocol=Zigbee

For more information on supported devices, please refer to: https://zigbee.blakadder.com/

> This guide is based on Home Assistant. For more details, please visit: Home Assistant – ZHA

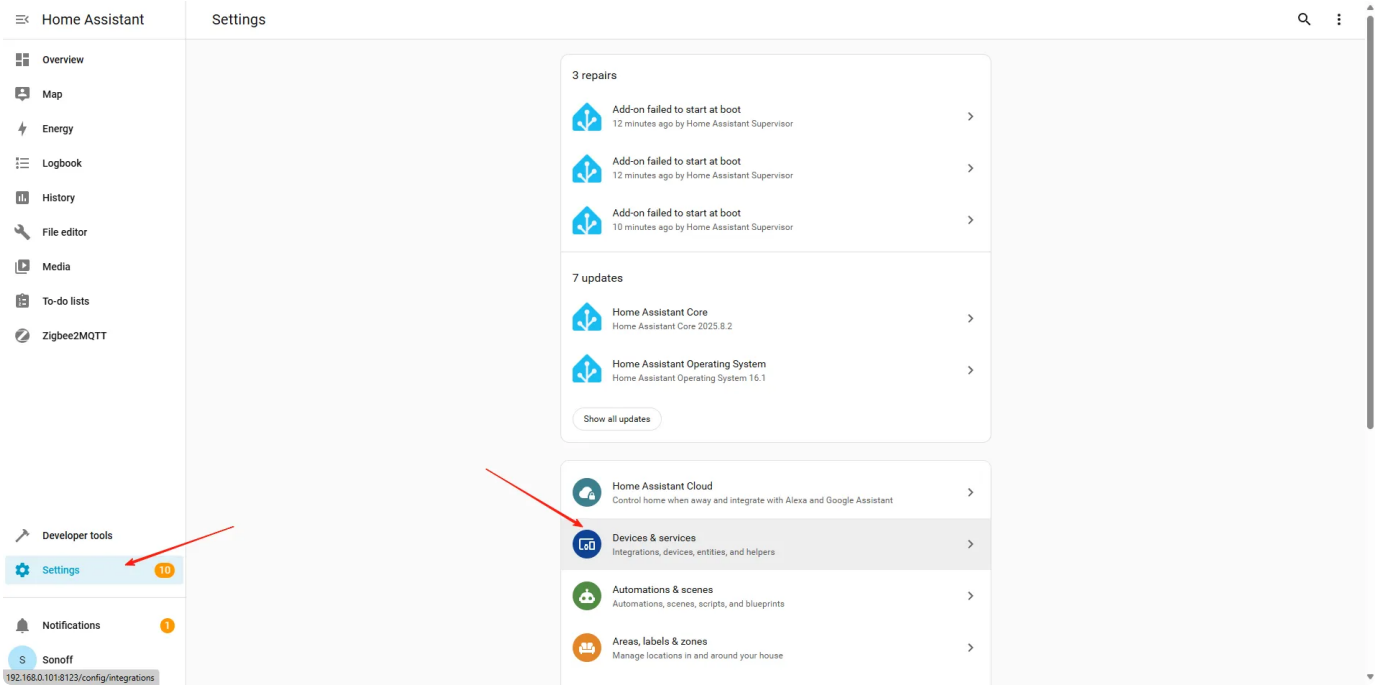
Connecting to Home Assistant via ZHA

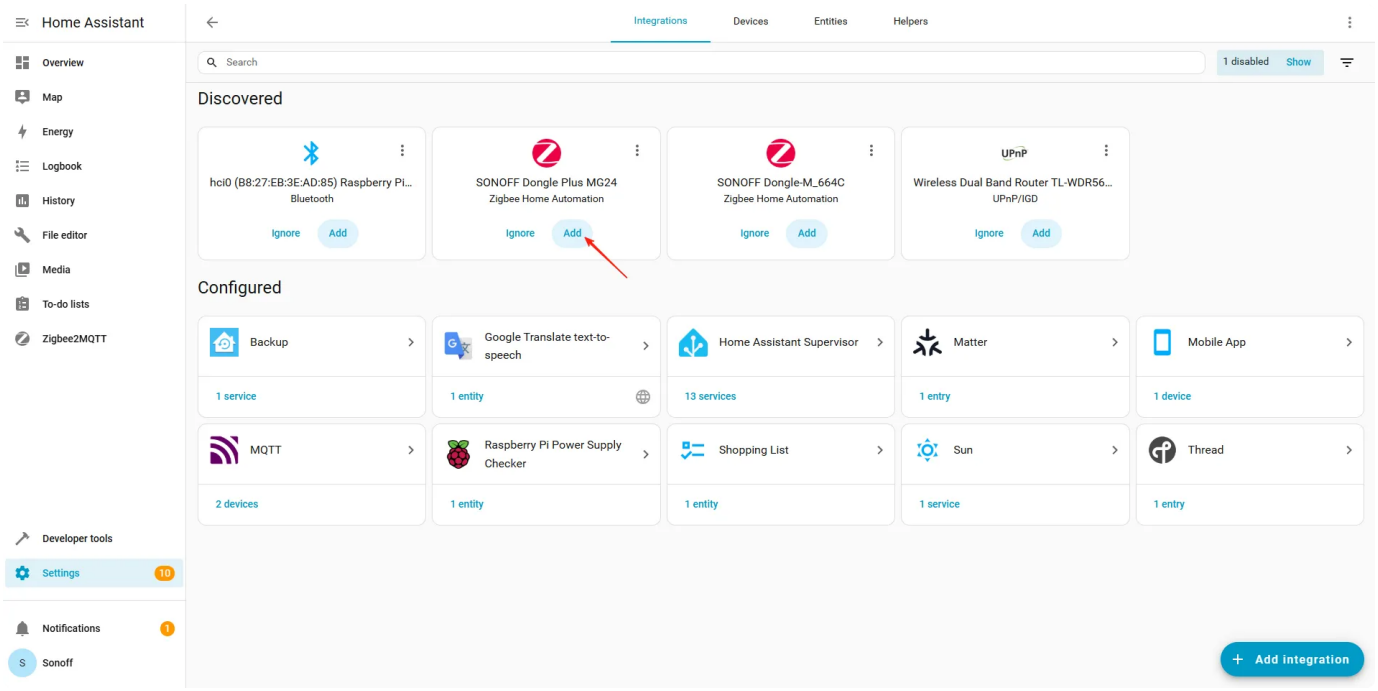
Preparation

Before getting started, ensure that Home Assistant is installed and the Dongle is connected to the host's USB port. If not yet installed, please follow the **Home Assistant Installation Guide**.

Step 1: Add Integration

In most cases, once the device is connected to the **operating system**, it will be automatically discovered by Home Assistant. Go to **Settings > Devices & Services**, and click ADD to start the configuration.





Step 2: Configure the Dongle

After clicking the ADD button, follow the prompts to configure the Dongle. You will need to select a network initialization method:

> 1. Restore from previous network backup: Used when replacing the Zigbee coordinator. Restores based on the last available network backup.

2. Keep existing network settings: Used when the Zigbee coordinator remains the same and ZHA integration is re-added. Generally not recommended.
3. Manually upload network backup: Used when manually migrating network data during HA migration.
4. Erase and create a new network: Used to create a new Zigbee network by erasing existing network data.

Step 3: Add a Zigbee Sub-device

Put the Zigbee sub-device into pairing mode. Then go to the **ZHA Integration > Devices** page, click **Add Device**, and the integration will begin scanning and automatically adding the Zigbee sub-device.

> This guide is based on the GitHub project: https://github.com/zigbee2mqtt/hassio-zigbee2mqtt#installation

Connecting to Home Assistant via Z2M Add-on

Preparation

Before getting started, ensure that Home Assistant is installed and the Dongle is connected to the host's USB port. If not yet installed, please follow the **Home Assistant Installation Guide**.

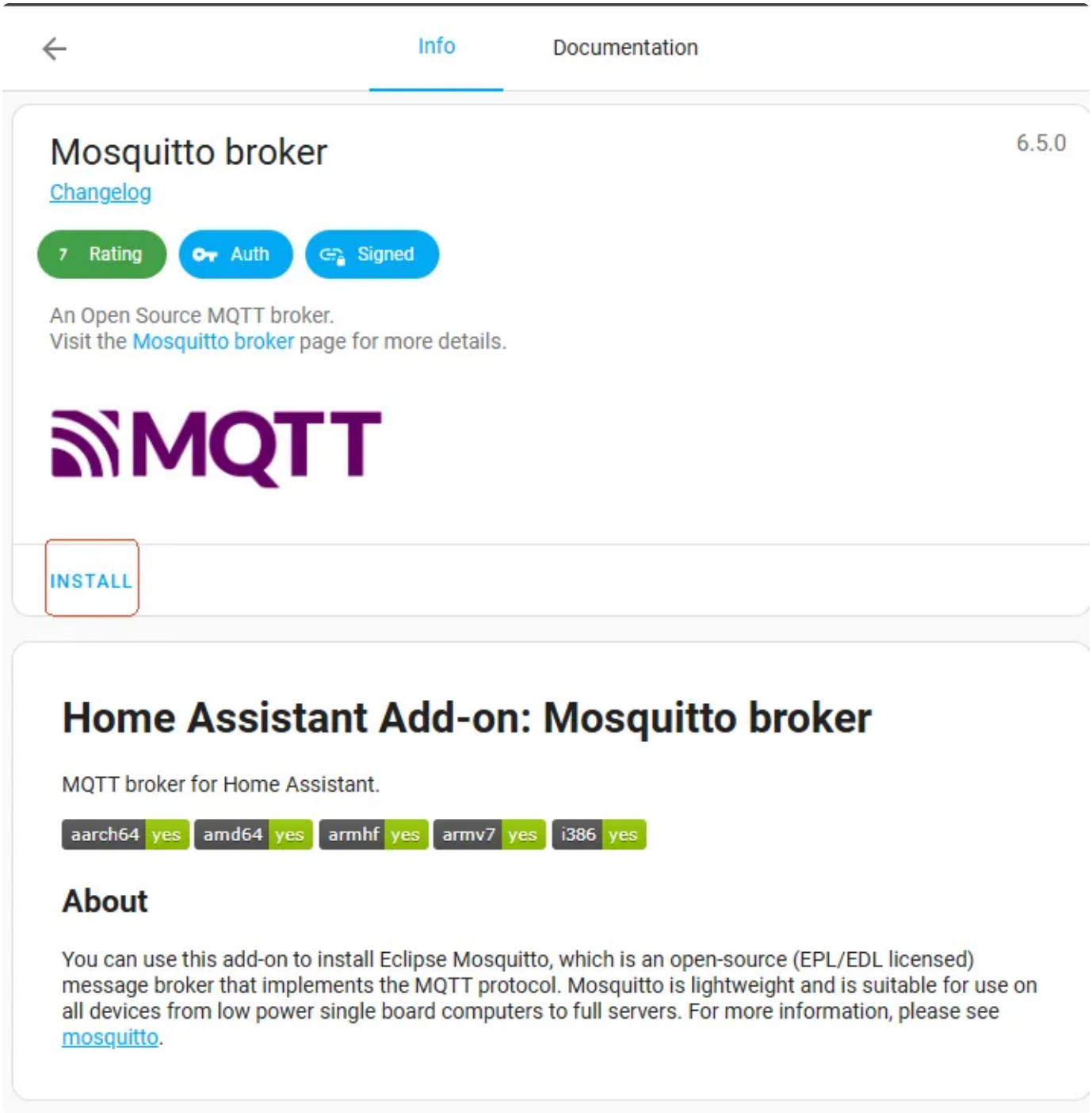
Step 1: Install Add-ons

When connecting HA through the Zigbee2MQTT Add-on, you need to install two add-ons:

- Mosquitto broker (MQTT Broker)
- Zigbee2MQTT

Install MQTT Broker

Go to Settings → Add-ons → Add-on store and install the Mosquitto broker add-on, then start it.



Install Zigbee2MQTT

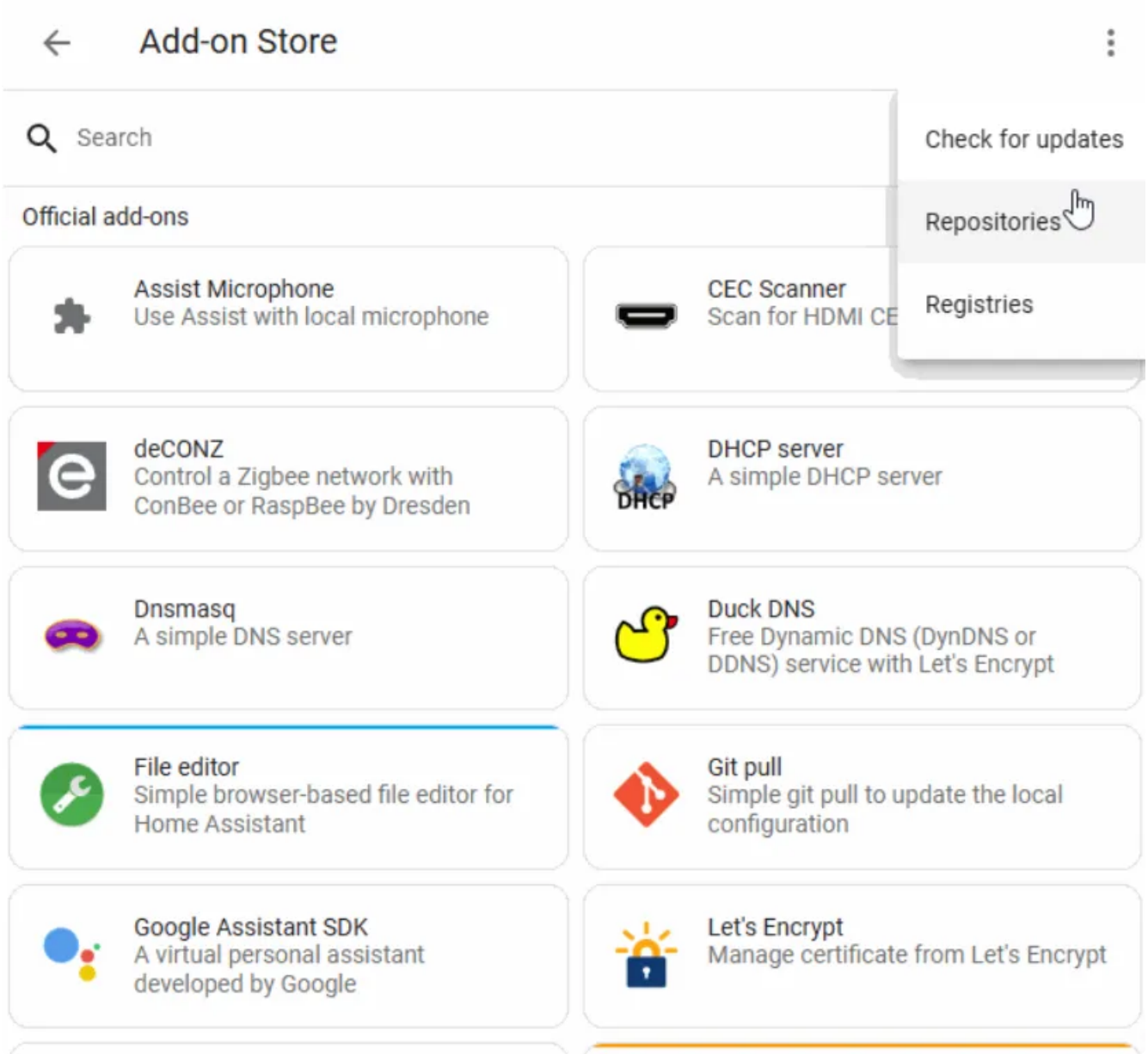
1. Add Repository

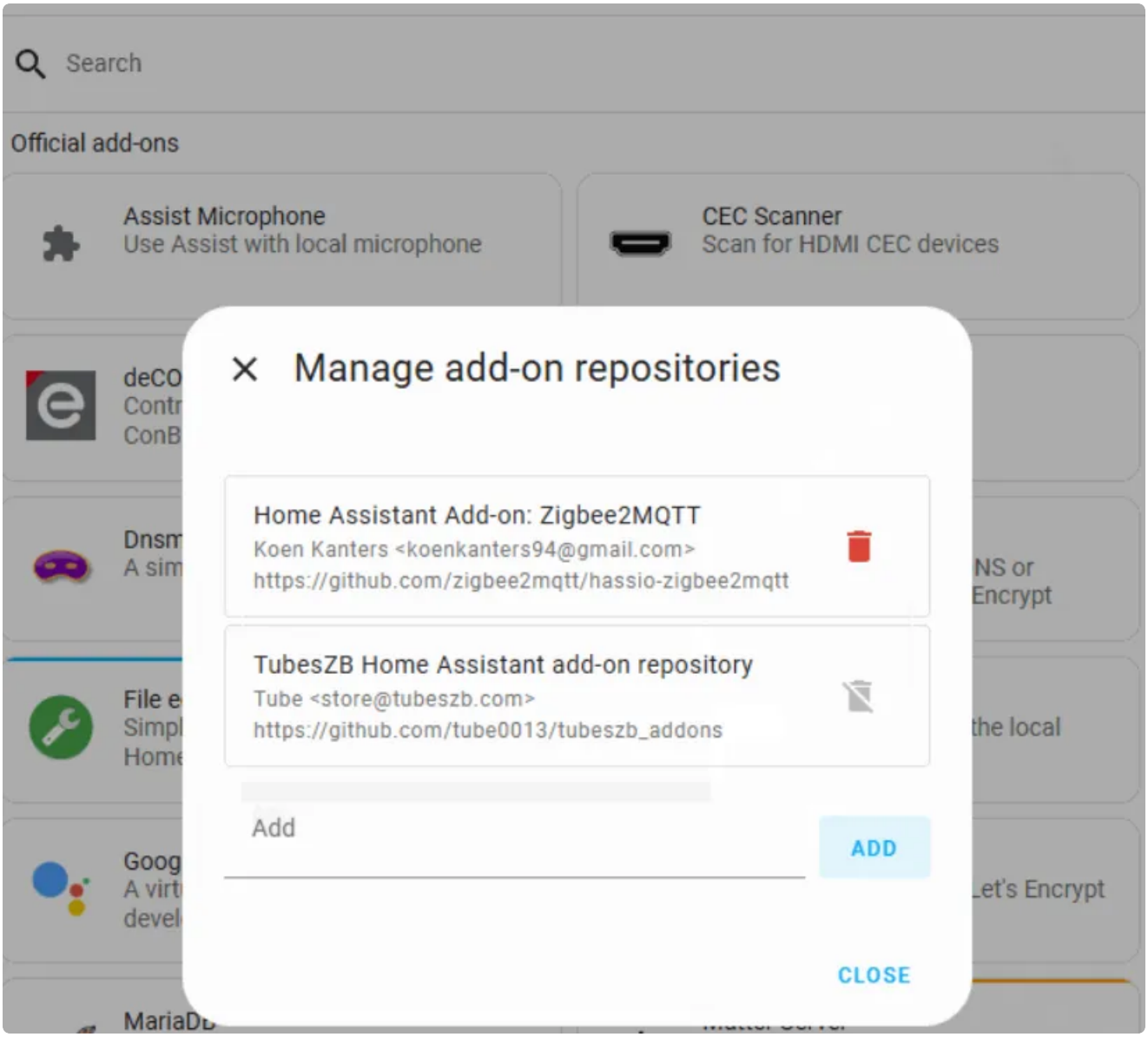
Go back to the Add-on store, click ⋮ → Repositories, fill in

> https://github.com/zigbee2mqtt/hassio-zigbee2mqtt

and click Add → Close or click the Add repository button below, click Add → Close

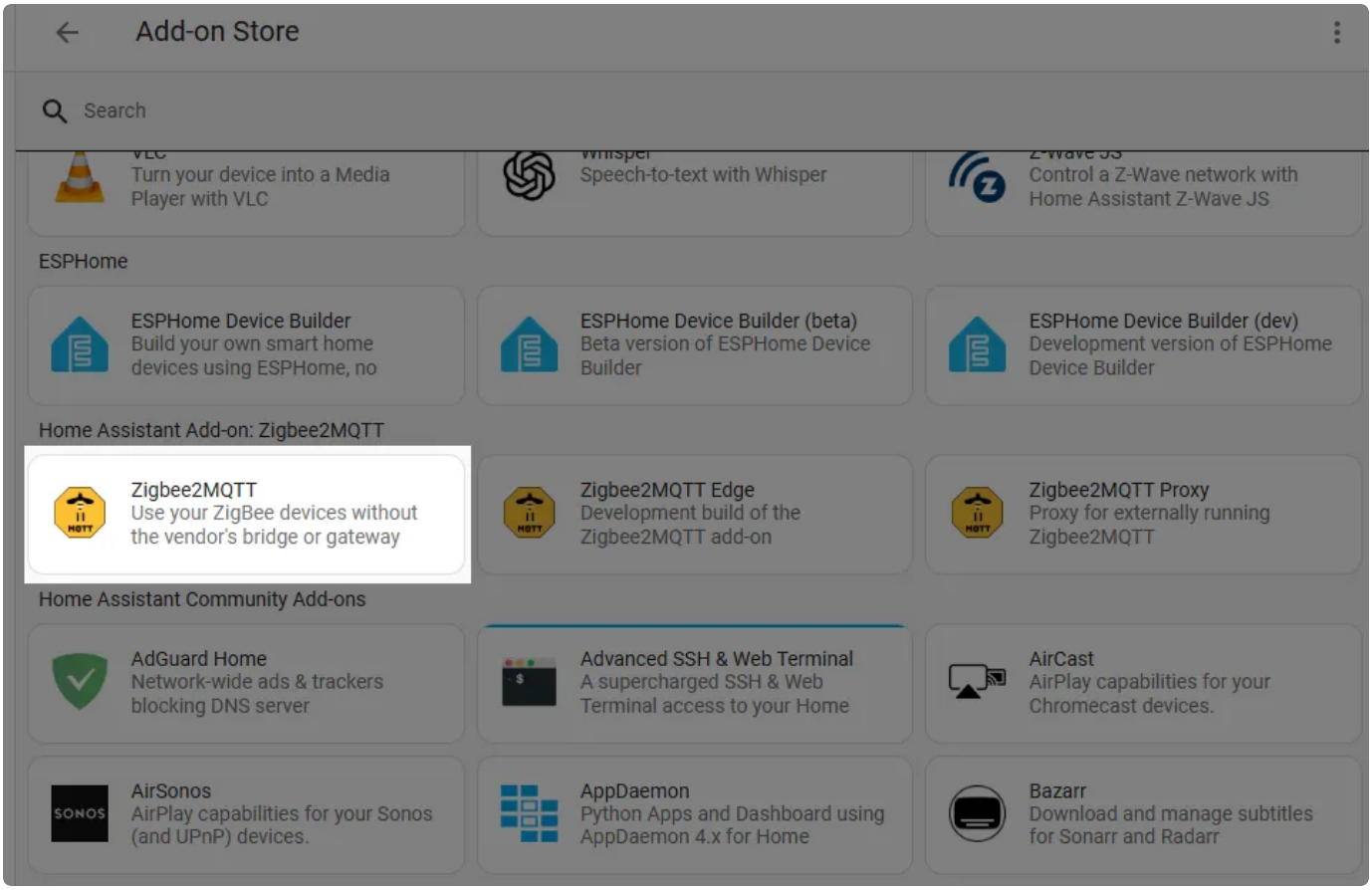
Installation Link





2. Install Zigbee2MQTT

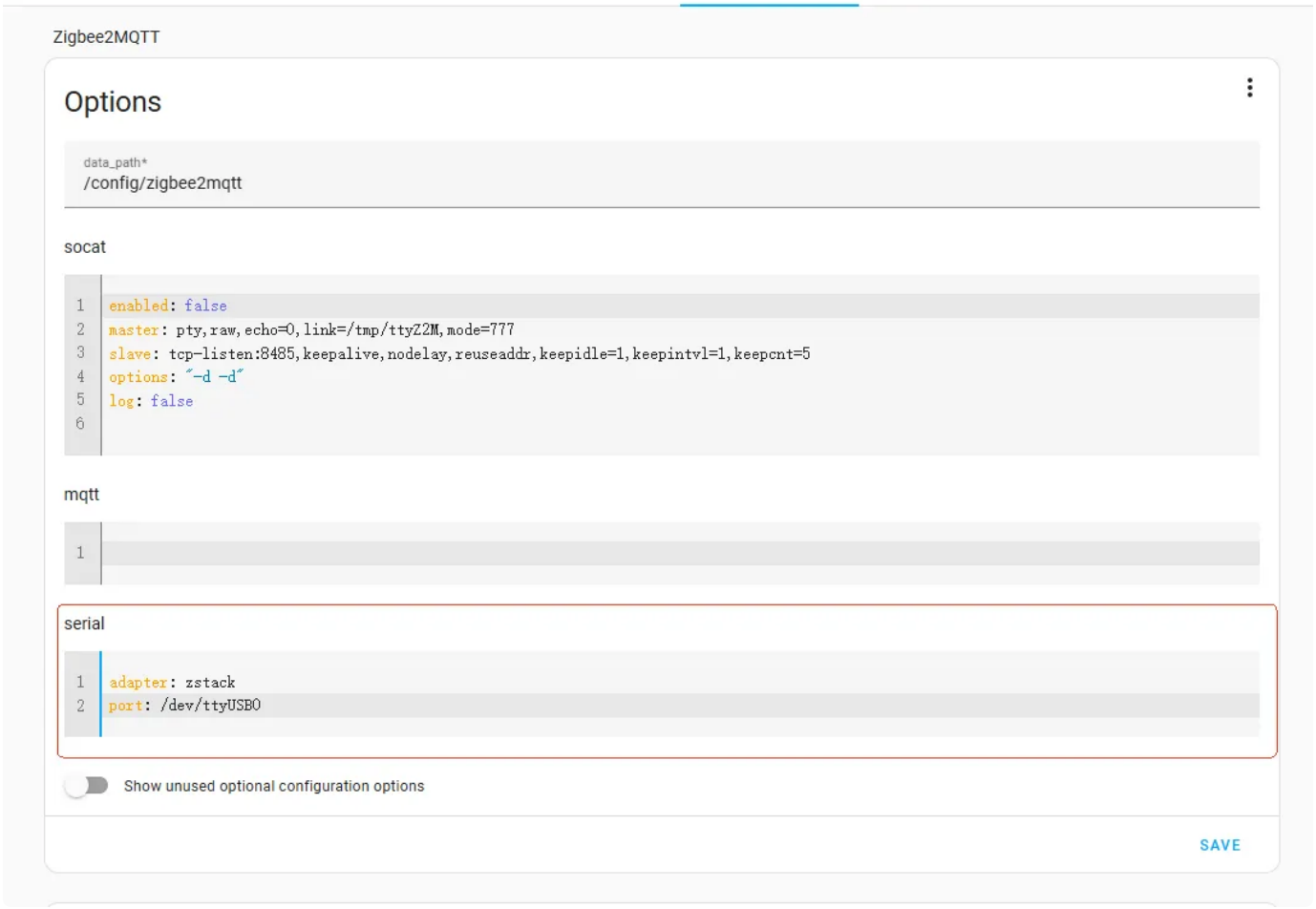
Return to the store list, find Zigbee2MQTT, and proceed with installation.



Step 2: Configure Zigbee2MQTT

Open the **Zigbee2MQTT** add–on → **Configuration** page.

You need to configure the device's adapter type and serial port path under serial.



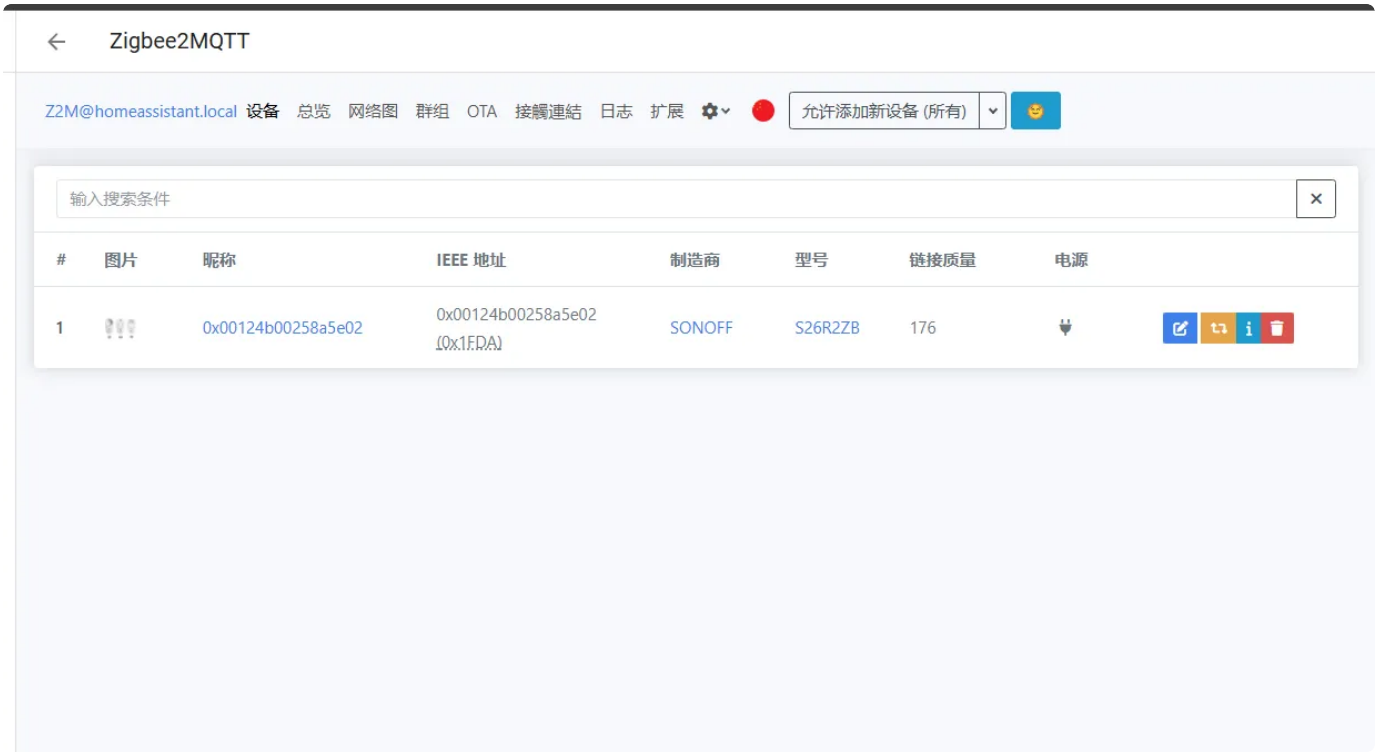
The following format:

```
adapter: Adapter Type
port: Dongle Serial Port Path
```

Example Configuration for Dongle:

```
adapter: ember
port: /dev/ttyUSB0
```

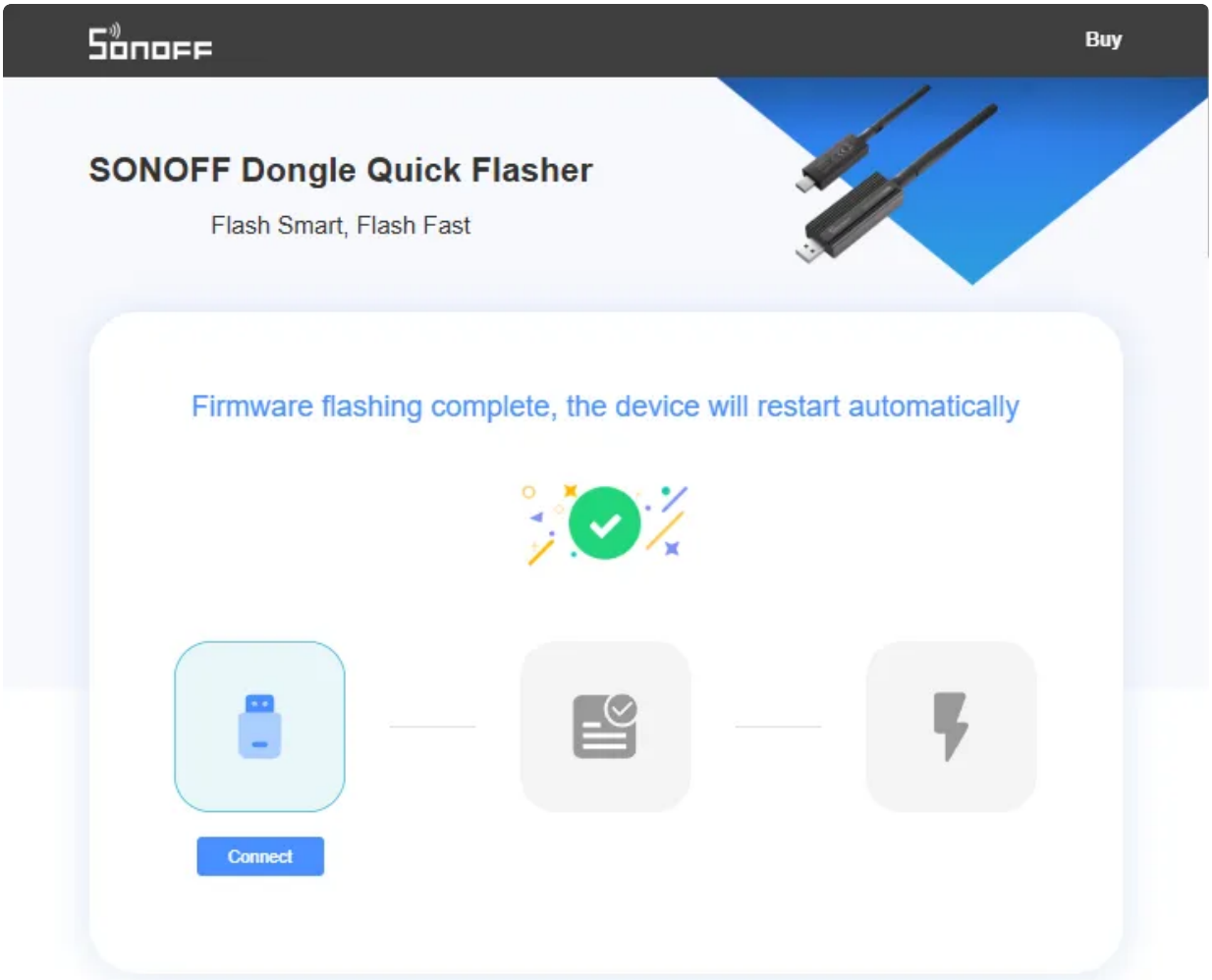
After completing the configuration, start the **Zigbee2MQTT** add-on. Wait for about two minutes, then you can click to enter the **Web UI Console** to add and manage devices.



How to Flash Firmware

It is recommended to use the **SONOFF Dongle Flasher** for firmware upgrades or flashing.

https://dongle.sonoff.tech/sonoff-dongle-flasher/



Supported Firmware

Firmware Type	Supported
Zigbee NCP	✅
Zigbee Router	✅
OpenThread RCP	✅
MultiPAN RCP	✅
Custom Firmware	✅

⚠️Note：

1. After flashing the official Router firmware, the device will automatically reboot and enter

pairing mode.

2. If you intend to use the Dongle as a signal repeater, you need to add it to the Zigbee network in ZHA or Zigbee2MQTT, following the same process as adding any other Zigbee end device.
3. To remove the device from the current network, press and hold the Reset button for more than 8 seconds, then release it. The device will re-enter pairing mode.