

# **ZB-Stick with Home Assistant**

This document describes how to use POPP ZB-Stick with existing Home Automation platform called Home Assistant (Hass.io) (<a href="https://www.home-assistant.io/">https://www.home-assistant.io/</a>).

POPP ZB-Stick firmware version, referenced in this guide: 6.3.0

Home Assistant (Hass.io) software version, referenced in this guide: 0.112.4

#### This guide focuses on:

- Connect POPP ZB-Stick to the target PC or Raspberry Pi
- Setup Zigbee Home Automation component in Home Assistant
- Troubleshooting
- Zigbee devices Pairing and Removal
- Zigbee devices examples

This guide DOES NOT focus on Home Assistant (Hass.io) installation and initial configuration. Please follow the official instructions <a href="https://www.home-assistant.io/hassio/installation/">https://www.home-assistant.io/hassio/installation/</a>.

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## Introduction

POPP ZB-Stick can be used in 2 options with Home Assistant:

With a generic Linux machine, with Home Assistant installed

Home Assistant installed and running



With a Raspberry Pi (any other single board computer) with Home Assistant installed

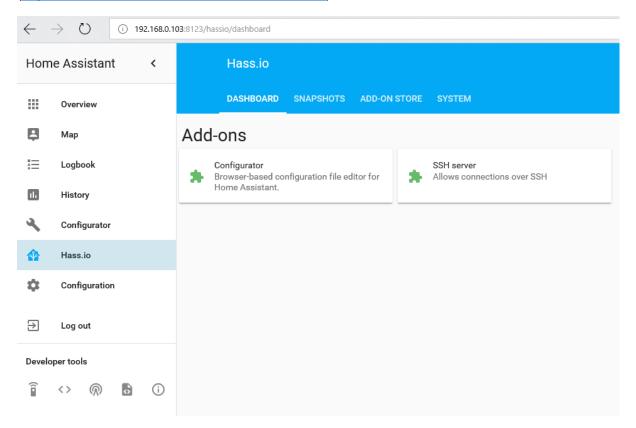
Home Assistant installed and running



## Initial setup and connection

This guide does not cover Home Assistant (Hass.io) installation. We assume, that you can access Home Assistant Web Interface using your browser.

It is highly recommended to have SSH Server and Configurator addons installed, at least during the Zigbee setup phase. To install them just follow the Hass.io installation guide (https://www.home-assistant.io/hassio/installation/).

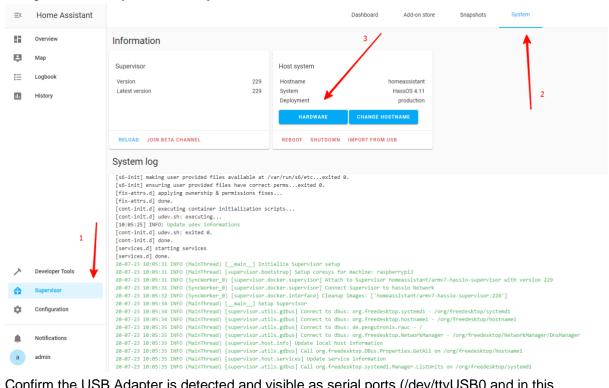


## Connect POPP ZB-Stick to your Raspberry Pi or PC

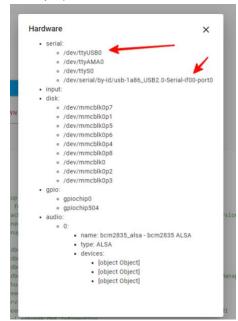
Once you have inserted the USB adapter, check the configuration.

- Wait for Hass.io to boot
- Connect to the web interface using your favourite browser

- Navigate to the Supervisor -> System -> Hardware menu



Confirm the USB Adapter is detected and visible as serial ports (/dev/ttyUSB0 and in this example)



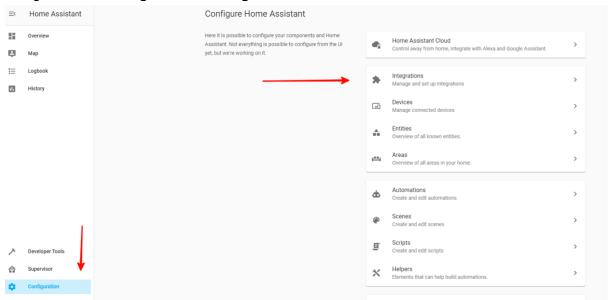
# Zigbee HA Component configuration

To work with POPP ZB-Stick from Home Assistant we are using Zigbee Home Automation Component (<a href="https://www.home-assistant.io/components/zha/">https://www.home-assistant.io/components/zha/</a>). It comes preinstalled into Hass.io so we only need to configure it properly to get it working.

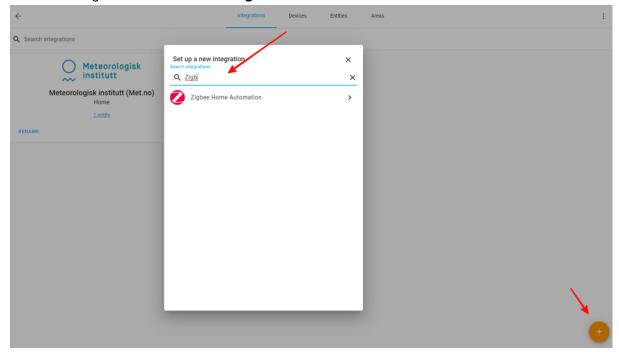
## Configure Zha component

To setup Zigbee Home Automation component to work properly with POPP ZB-Stick we need to:

Navigate to the Configuration -> Integrations



- Add new Integration and search for Zigbee Home Automation



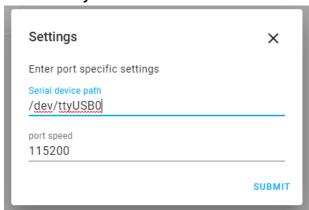
Select Enter Manually



- Select **EZSP** radio type



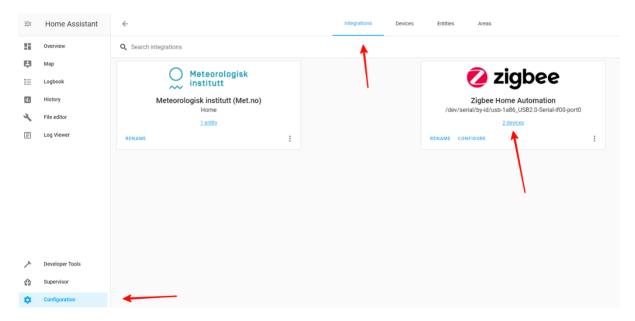
- Enter /dev/ttyUSB0 as Serial Port and select Baud rate 115200



- The installation should be successful



#### Now the Zigbee Integration should appear:



## Setup Logging (optional)

To spot any potential issues it is good practice to enable logging, at least during the setup and installation period. To do it, just add the following lines to the configuration file /config/configuration.yaml:

### logger:

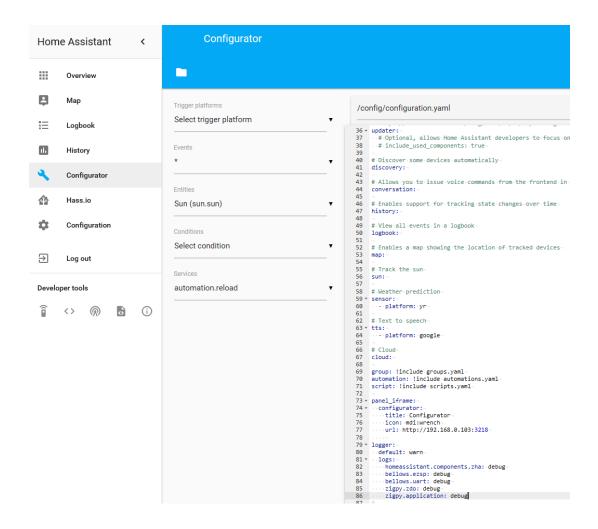
default: warn

logs:

homeassistant.components.zha: debug

bellows.ezsp: debug
bellows.uart: debug
zigpy.zdo: debug

zigpy.application: debug

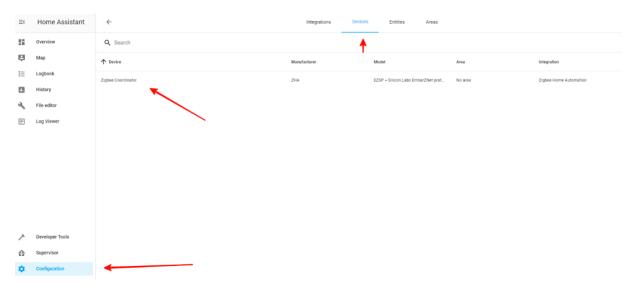


# Zigbee HA Component Usage

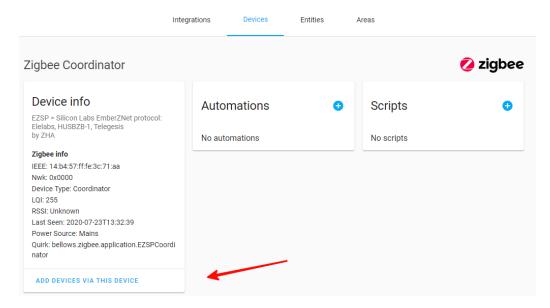
Once Zigbee Component is added and configured properly you can start to use it.

### Add your devices to the Home Assistant

### Open Configuration and go to Devices and Zigbee Coordinator

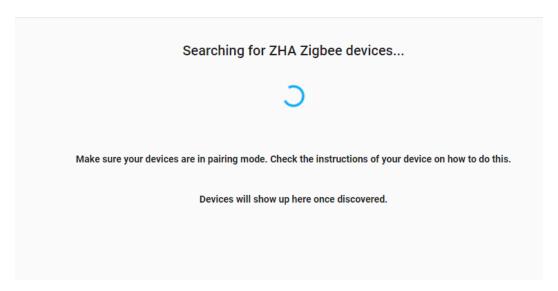


#### Start "Add Devices via this device"



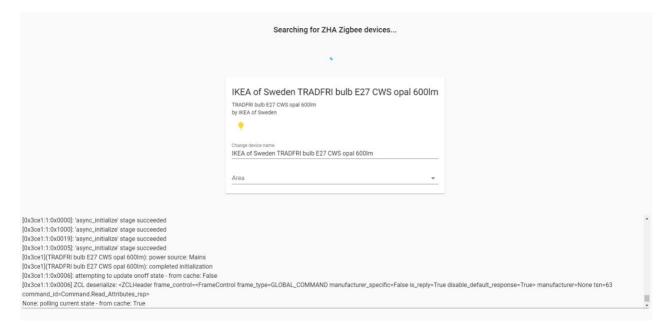
When you will call it, you have 60 seconds to add the device.

Network Groups



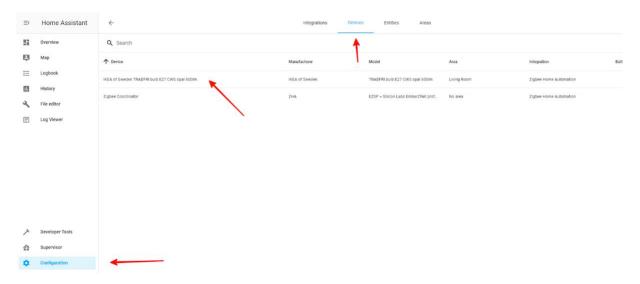
During this period, you need to follow Device manual to put it in Pairing mode. Sometimes you just need to give it power.

If the device is found, you will be able to see it in the logs (example device)

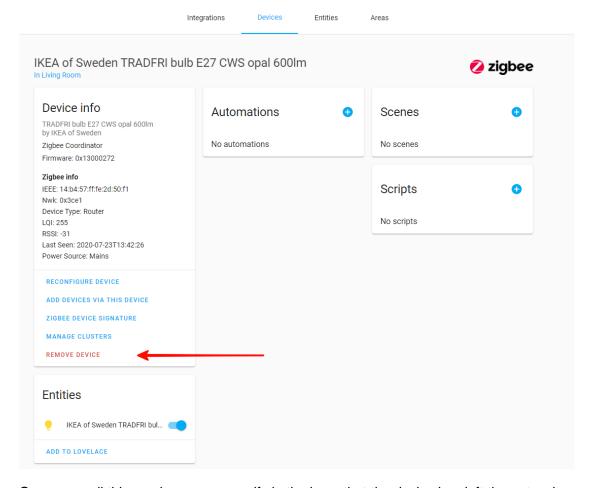


## Remove your device from Home Assistant

Open Configuration and go to Devices.



Select the device, which you would like to remove



Once you call this service you can verify in the logs, that the device has left the network.

### Example: Philips Hue Bulb

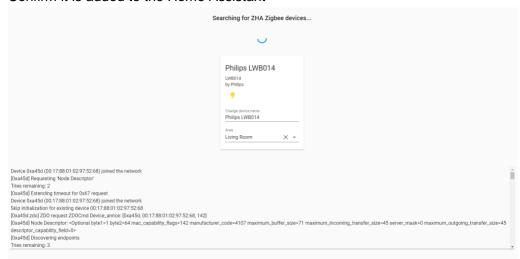
This example is done with Hue White Single bulb E26 but is applicable to other products as well.



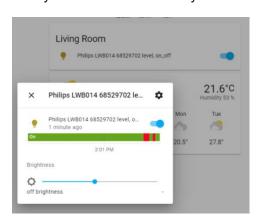
To control Philips Hue Light bulb using Home Assistant, one first needs to reset it.

Once it is reset, you can follow the regular process to Add it to the Home Assistant.

- Call Add Devices service as explained in Add devices section of this guide
- Power ON the Lightbulb
- Confirm it is added to the Home Assistant



Now you can control it directly or use in the scenarios.



# **Troubleshooting**

If your issue is not described here or you need help resolving it, please contact support at info@popp.eu