

# AI-01883 Sonoff ZBBridge-P to Tasmota Flash

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| Tags         | Project                 |
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## Can I utilize my currently working Sonoff ZB ridge-P to connect to Home Assistant?

Absolutely, Rigel — you can use your Sonoff ZBBridge-P with Home Assistant, but it does require a bit of setup. Here's how to make it happen:

### What You'll Need

- A Sonoff ZBBridge-P (already working, as you mentioned)
  - Tasmota firmware flashed onto the bridge
  - Home Assistant running on your local network
  - A stable IP address for the bridge (recommended)

### Step-by-Step Integration via ZHA

#### 1. Flash Tasmota Firmware

If your ZBBridge-P isn't already flashed with Tasmota, you'll need to do that first. This enables local control and compatibility with Home Assistant. You can flash it without soldering using a USB-to-serial adapter and Tasmatizer tool A.

#### 2. Configure Tasmota for TCP Serial Bridge Mode

- Access the Tasmota web UI.

- Go to Configuration → Auto-Configuration.
- Select Sonoff ZBPro TCP and apply.
- Set a static IP either via your router or directly in Tasmota to avoid connection issues.

#### 3. Connect to Home Assistant via ZHA

- In Home Assistant, go to Settings → Devices & Services → Add Integration.

- Search for ZHA (Zigbee Home Automation).
- Choose:
  - Radio Type: ZNP

- Serial device path:

`socket://[your_bridge_ip]:8888`

- Data flow control: Software

#### 4. Pair Zigbee Devices • Once ZHA is set up, go to Add Zigbee Device.

- Put your Zigbee device into pairing mode.
- Home Assistant will detect and add it to your network.

#### ⚠ Heads-Up

- The physical button on the ZBBridge-P does not enable pairing mode — pairing is triggered from Home Assistant.
- Wi-Fi-based Zigbee bridges can be less stable than USB dongles, so keep your Wi-Fi strong and interference low B.

If you've already flashed Tasmota, you're halfway there. Want help checking your firmware or setting up the static IP?

### **How to flash a ZBBridge-P to Tasmota? Create a step by step guide.**

Sure thing, Rigel! Here's a detailed, step-by-step guide to flashing your Sonoff ZBBridge-P with Tasmota firmware so you can integrate it with Home Assistant or run it locally:

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#### What You'll Need

- Sonoff ZBBridge-P (Zigbee Bridge Pro)
  - USB-to-Serial adapter (FTDI, CP2102, etc.)
  - Dupont cables (male-to-female)
  - Tasmota firmware:  
`tasmota32-zbbrdgpro.factory.bin`
  - Flashing tool: ESPTool or Tasmota Web Installer
  - A computer with USB ports

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#### Step-by-Step Flashing Guide


##### 1. Open the ZBBridge-P

- Remove the rubber feet and unscrew the four Phillips screws.
  - Carefully open the case to expose the PCB.
  - Locate the UART pads: GND, GPIO0, RX, TX, 3V3

## 1. Wire the Serial Connection

Connect the USB-to-Serial adapter to the ZBBridge-P as follows:

| ZBBridge-P Pin | USB Adapter Pin            |
|----------------|----------------------------|
| GND            | GND                        |
| GPIO0          | GND (only during power-on) |
| RX             | TX                         |
| TX             | RX                         |
| 3V3            | 3.3V                       |

 Important: Never use 5V — it will fry the board!

## 1. Put the Device in Flash Mode

- Hold GPIO0 and GND together (e.g., with a screwdriver).
  - While holding, plug in the USB adapter to power the board.
  - This boots the ESP32 into flash mode.

## 1. Flash the Firmware

Use one of these methods:

Option A: ESPTool (CLI)

```
esptool.py write_flash 0x0 tasmota32-zbbrdgpro.factory.bin
```

Option B: Tasmota Web Installer

- Visit Tasmota Installer
  - Select `tasmota32-zbbrdgpro.factory.bin`
  - Follow on-screen instructions

## 1. Connect to Tasmota

- After flashing, power cycle the device normally.
  - A Wi-Fi AP named `tasmota-XXXX` will appear.
  - Connect to it and go to `192.168.4.1` in your browser.
  - Enter your Wi-Fi credentials.

## 1. Auto-Configure the Device

- Access the Tasmota web UI via your router's IP.
    - Go to Configuration → Auto-Configuration
    - Select Sonoff ZBPro TCP and apply
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### Optional: Flash Zigbee Coordinator Firmware

If you want the bridge to act as a standalone Zigbee coordinator (Zigbee2Tasmota):

1. Go to Consoles → Berry Scripting Console
2. Run:

```
import sonoff_zb_pro_flasher as cc
cc.load("SonoffZBPro_coord_20220219.hex")
cc.check()
cc.flash()
```

1. Wait ~5 minutes. After reboot, you'll see Zigbee options in the UI.
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Let me know if you want help with the coordinator firmware or setting up ZHA in Home Assistant next. You're almost there! 