

# IoT

Internet of Things done securely.

IoT devices can use a range of technologies for communication, Wi-Fi, Bluetooth, Zigbee, Z-Wave, ...

Companies like Tuya provide smart chip integration for existing devices of other manufacturer's, so the quality of various <Company>-enabled devices can vary.

IoT devices tend to have a lot of issues:

- Run closed source firmware which is not secure from the get go
- The manufacturer gives up on supporting it near immediately
- The manufacturer requires a subscription to keep it running
- The device is impossible to integrate with open source solution like Home Assistant

Important resources:

- [Elektroda.com](https://elektroda.com/) - Forum with teardowns, home of OpenBeken
- [OpenBeken device list](#)
- [Tasmota device support](#)
- [Zigbee device support](#)
- [ESPHome device list](#)
- [Custom firmware for Zigbee 3.0 IoT devices](#)

Zigbee:

- Zigbee2MQTT
- [ZHA](#)

Wi-Fi has much higher power consumption than other solutions like Zigbee, therefore do not rely on Wi-Fi for devices that are battery powered, you'll end up replacing the battery way more often.

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