

Zigbee — Zigbee2MQTT + ZHA + HA Connect ZBT-2

Overview

Zigbee is the primary short-range wireless protocol for sensors and smart plugs. The home uses a single **HA Connect ZBT-2** USB stick as the Zigbee coordinator, running **Zigbee2MQTT** (the primary active stack). ZHA is also installed but is **disabled by the user** to avoid coordinator conflicts.

Hardware

Component	Details
Coordinator	Home Assistant Connect ZBT-2 (Nabu Casa)
IEEE Address	44:e2:f8:ff:fe:8c:7d:98
Firmware	EmberZNet Zigbee 7.5.1.0
Active Stack	Zigbee2MQTT 2.12.0
Disabled Stack	ZHA (disabled_by: user)

Zigbee2MQTT

Add-on version: 2.12.0-1 | **Bridge device:** 723747744690709ec853190a975e567b

Zigbee2MQTT communicates via the **Mosquitto MQTT broker** add-on. All Zigbee device data flows through MQTT topics.

Zigbee2MQTT Devices

Device	Manufacturer	Model	Area
Zigbee2MQTT Bridge	Zigbee2MQTT	Bridge	(system)
Bedroom Gen1 Soil Sensor	Third Reality	Smart Soil Moisture Sensor	(unassigned)
Living Room Gen1 Soil Sensor	Third Reality	Smart Soil Moisture Sensor	(unassigned)
Media Room Gen1 Soil Sensor	Third Reality	Smart Soil Moisture Sensor	(unassigned)
Outdoor1 Gen2 Soil Sensor	Third Reality	Smart Soil Moisture Sensor Gen2	(unassigned)
Outdoor2 Gen2 Soil Sensor	Third Reality	Smart Soil Moisture Sensor Gen2	(unassigned)
Outdoor3 Gen2 Soil Sensor	Third Reality	Smart Soil Moisture Sensor Gen2	(unassigned)
Generic Gen2 Soil Sensor	Third Reality	Smart Soil Moisture Sensor Gen2	(unassigned)
Living Room 4 Button Switch	Tuya	Wireless 4-button switch	Living Room
Christmas Lights Living Room	Third Reality	Zigbee/BLE smart plug	(unassigned)
Upstairs Hallway Switch	Third Reality	Zigbee/BLE smart plug	(unassigned)

Bridge entities:

- `switch.zigbee2mqtt_bridge_permit_join` — enable Zigbee device pairing
- `binary_sensor.zigbee2mqtt_bridge_connection_state`
- `sensor.zigbee2mqtt_bridge_signal_level` (Bar Shelves sensor)

Soil Sensors

Third Reality soil moisture sensors are the backbone of the **Plants dashboard**. They report temperature, humidity, and soil moisture levels.

Sensor	Generation	IEEE
Bedroom Gen1	Gen1 (3RSM0147Z)	<code>0xfffffb40e0605ce4d</code>
Living Room Gen1	Gen1 (3RSM0147Z)	<code>0xfffffb40e0605cc50</code>
Media Room Gen1	Gen1 (3RSM0147Z)	<code>0xfffffb40e0605e062</code>
Outdoor1 Gen2	Gen2	<code>0x7c3e82d6dc780000</code>
Outdoor2 Gen2	Gen2	<code>0x7c3e82d6f52a0000</code>
Outdoor3 Gen2	Gen2	<code>0x7c3e82d716ef0000</code>

Sensor	Generation	IEEE
Generic Gen2	Gen2	0x7c3e82d6f3ff0000

“ These sensors also have ZHA registrations (Soil Sensor 1, 2, 3) — this is because the same coordinator serves both Zigbee2MQTT and ZHA paths, but ZHA is disabled. The ZHA sensor entities may appear but are likely inactive.

ZHA (Disabled)

ZHA is configured but **disabled by the user** (disabled_by: user). The original entry 01KGV9QD6568DF9P3S4JQE53X8 (HA Connect ZBT-1) is not loaded.

A second ZHA entry for the ZBT-2 (homeassistant_connect_zbt2 hardware integration) is loaded but only provides the hardware device — Zigbee traffic goes through Zigbee2MQTT.

Notes / Gotchas

- Do not enable ZHA while Zigbee2MQTT is active — both cannot share the same coordinator simultaneously.
- The permit_join switch should be turned off when not actively pairing devices (security best practice).
- Third Reality Gen1 soil sensors (3RSM0147Z) appear in both ZHA device registry (paired historically) and Zigbee2MQTT — the active entities are the Zigbee2MQTT ones.
- Upstairs Hallway Switch (Third Reality Zigbee plug) acts as a Zigbee mesh router, extending coverage to the 3rd floor.
- Christmas Lights Living Room (Third Reality plug) is seasonal and may be physically disconnected.

Last Updated

2026-06-24