Matter Over Thread Demo Quick Start Guide

1. Description

An application showing the use of Matter on BDE 2.4GHz modules. The result should resemble this high-level block diagram:
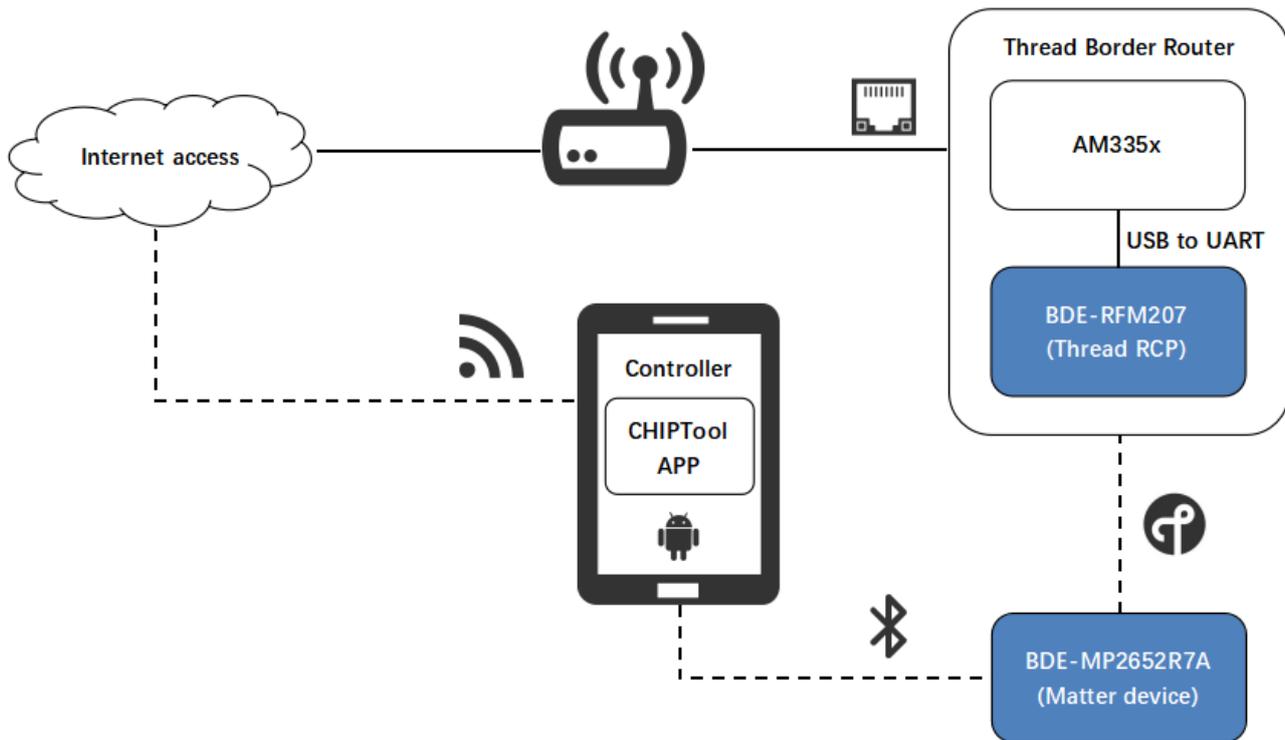
2. Get Ready

2.1. Software and Tools

- CHIPTool APP
- QR Code

2.2. Hardware

- 1 x Android Phone
- 1 x BDE-RFM207 module
- 1 x BDE-MP2652R7A module
- 1 x BeagleBone Black
- 2 x Evaluation boards of BDE-EVB07
- 1 x Ethernet cable

Border Router
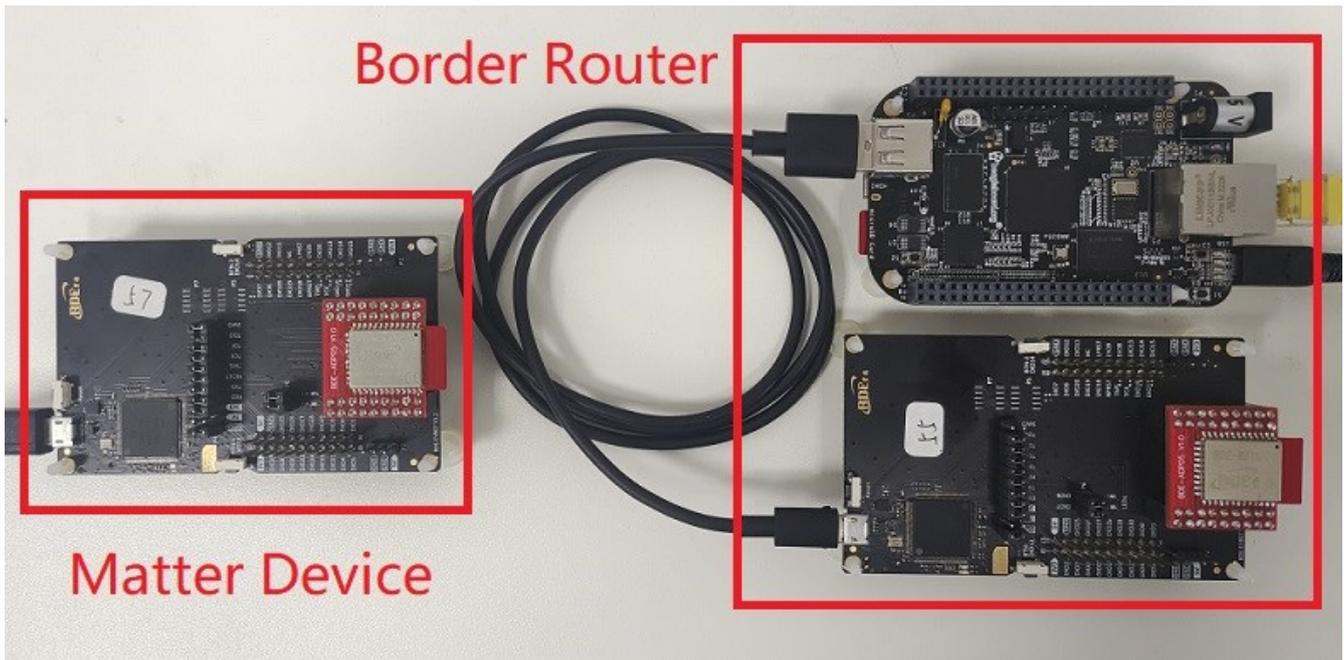
Matter Device

3. Running Demo

It is assumed that these devices are all on the same network (e.g. this can be accomplished by connecting all to a single Wi-Fi Router): Border Router and Matter controller (Android phone).

7.1. Install the CHIPTool APP

Install the CHIPTool APP on your Android phone. The installation package is **CHIPTool.apk** in the folder.

7.2. Power on the Border Router

Power on the Border Router. After one minute, the Border Router starts working, then proceed to the next step.

7.3. Device pairing

> Open the CHIPTool APP, click **"PROVISON CHIP DEVICE WITH THREAD"** and scan the QR code in this link: https://project-chip.github.io/connectedhomeip/qrcode.html?data=MT%3A6FCJ142C00KA0648G00

> ➢ After the scan, the following will show (If the APP exits abnormally, reopen the APP and scan the QR code again):

> ➢ Power on the Matter device (BDE-MP2652R7A). After ten seconds or so, it will start to work. Press and hold the right button labeled **BTN-2** on BDE-EVB07 for more than 1 second. Bluetooth LE will advertise.
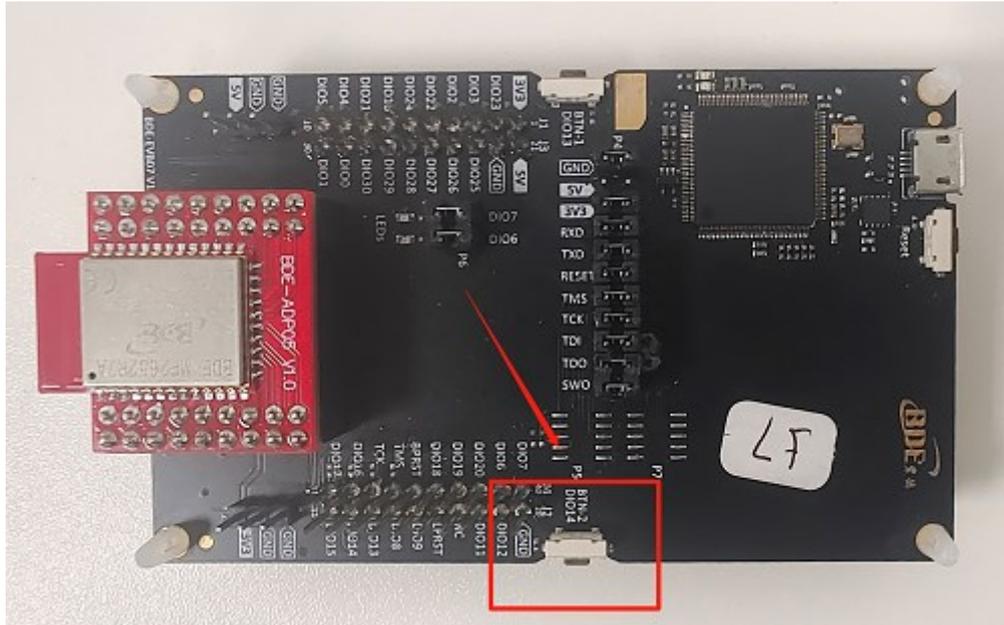
➢ Click **"SAVE NETWORK"** to enter the pairing mode:
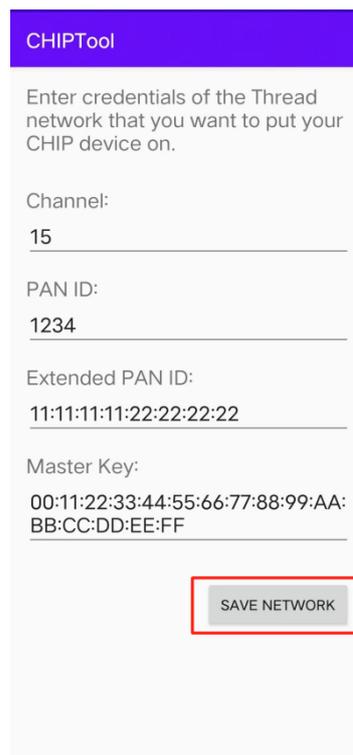
➢ The following message will pop up when the device is successfully paired:
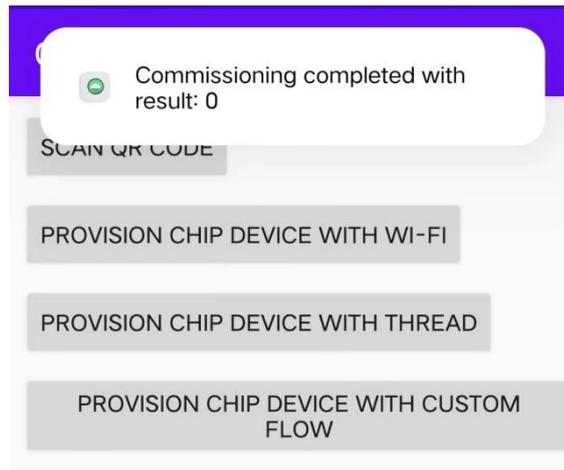
➢ You can click **"LIGHT ON/OFF & LEVEL CLUSTER"** to enter the operation view and control the Matter device (BDE-MP2652R7A).
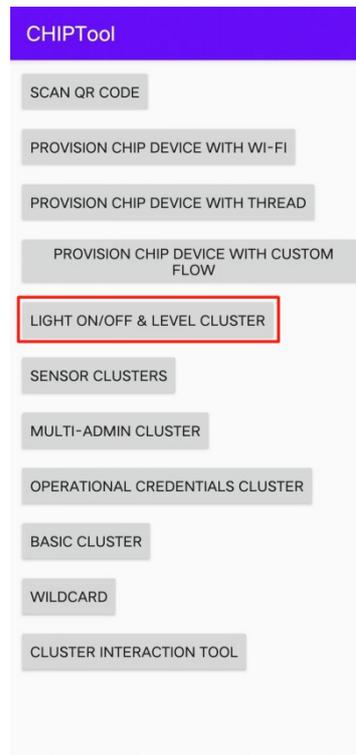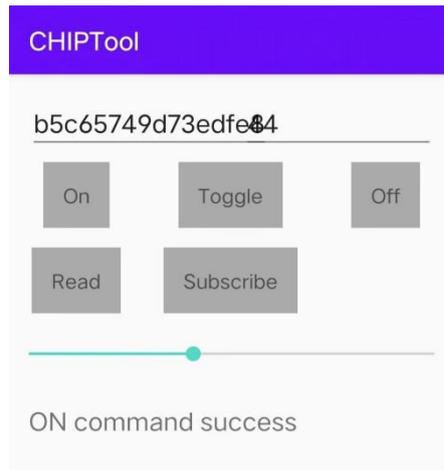
- On: Switch on the Red LED
- Off: Switch off the Red LED
- Toggle: Toggle the status of Red LED
- Read: Read the current status of the Red LED

By now, you should run the lighting-app demo successfully.

4. Revision History

Revision	Date	Description
V0.1	11-August-2023	Preliminary version, draft

You can find the latest documentations with this Link.

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