



BDE Technology Inc BDE-RFM207 Matter Over Thread Demo User Guide

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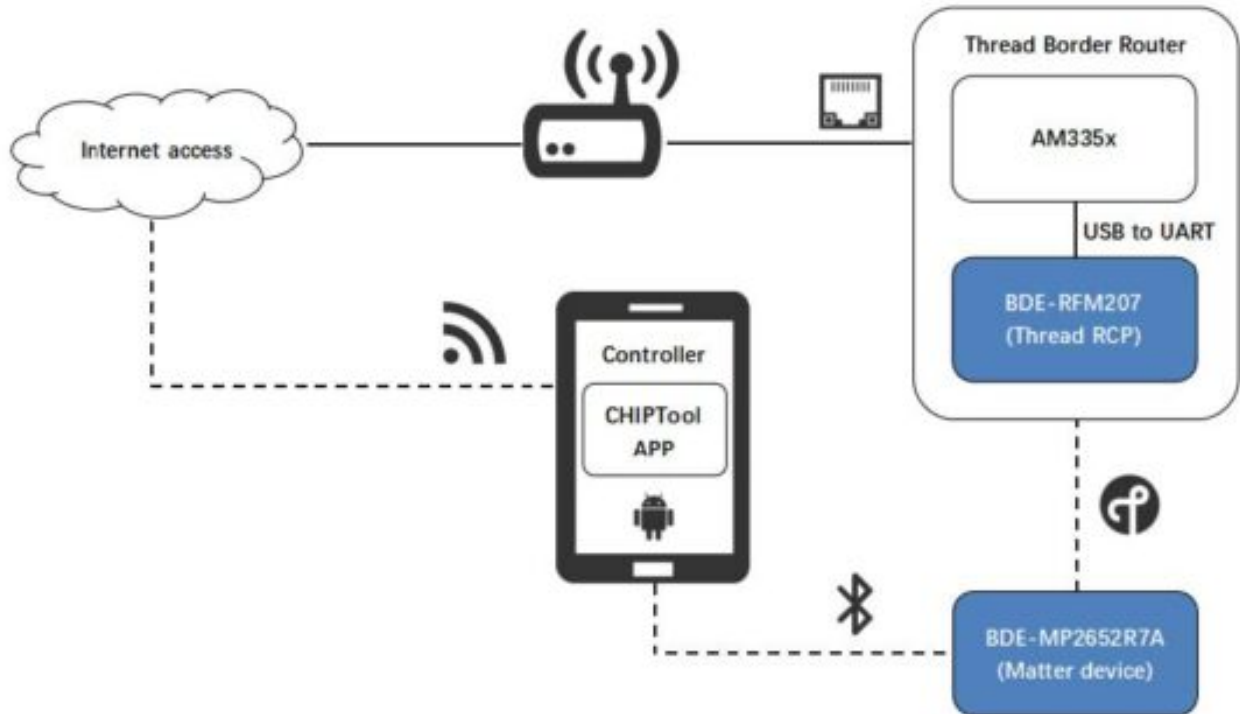
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BDE Technology Inc BDE-RFM207 Matter Over Thread Demo User Guide



1. Description

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



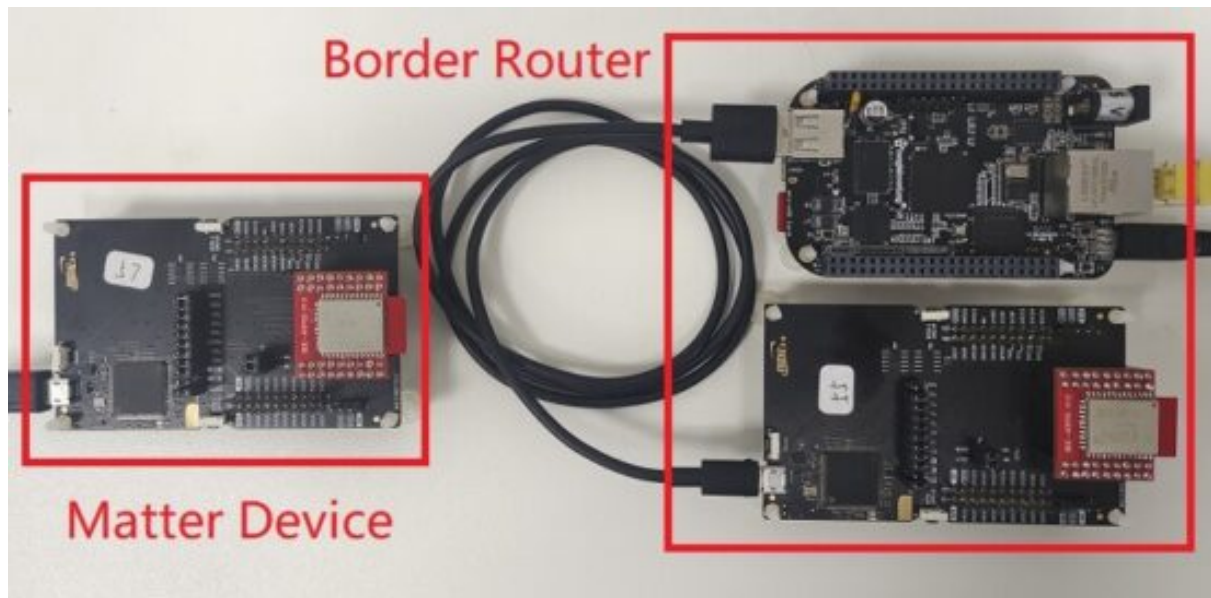
2. Get Ready

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



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 "PROVISION CHIP DEVICE WITH THREAD" and scan the QR code in this link:
<https://projectchip>.

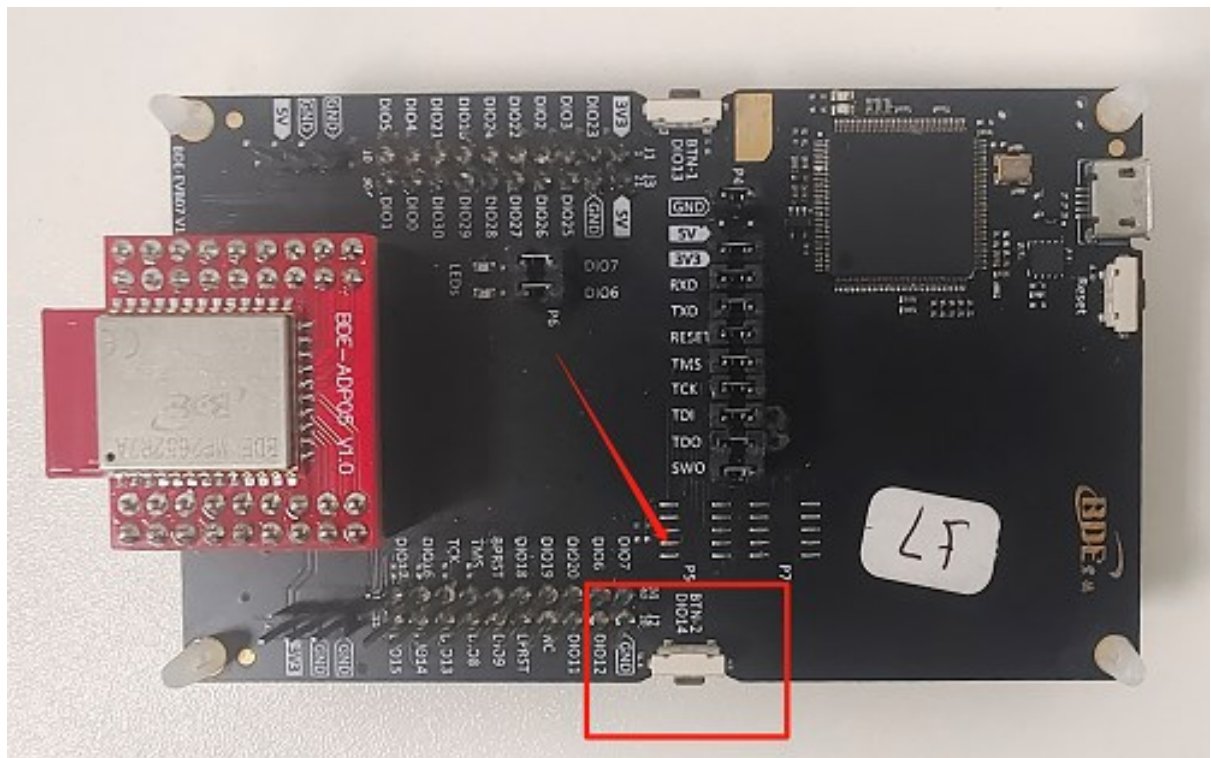
github.io/connectedhomeip/qrcode.html?data=MT%3A6FCJ142C00KA0648G00



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

The image shows the network configuration screen in the CHIPTool application. It has a purple header with "CHIPTool" in white. Below the header, the text "Enter credentials of the Thread network that you want to put your CHIP device on." is displayed. There are four input fields with labels and pre-filled values: "Channel:" with "15", "PAN ID:" with "1234", "Extended PAN ID:" with "11:11:11:11:22:22:22:22", and "Master Key:" with "00:11:22:33:44:55:66:77:88:99:AA:BB:CC:DD:EE:FF". At the bottom right, there is a grey button labeled "SAVE NETWORK".

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:

CHIPTool

Enter credentials of the Thread network that you want to put your CHIP device on.

Channel:
15

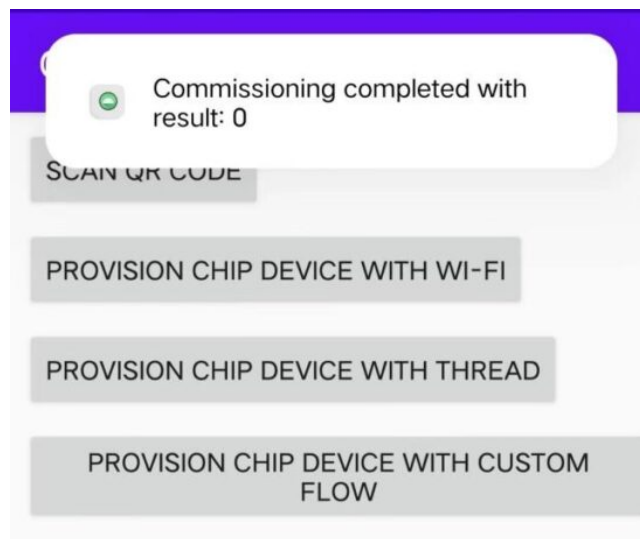
PAN ID:
1234

Extended PAN ID:
11:11:11:22:22:22:22

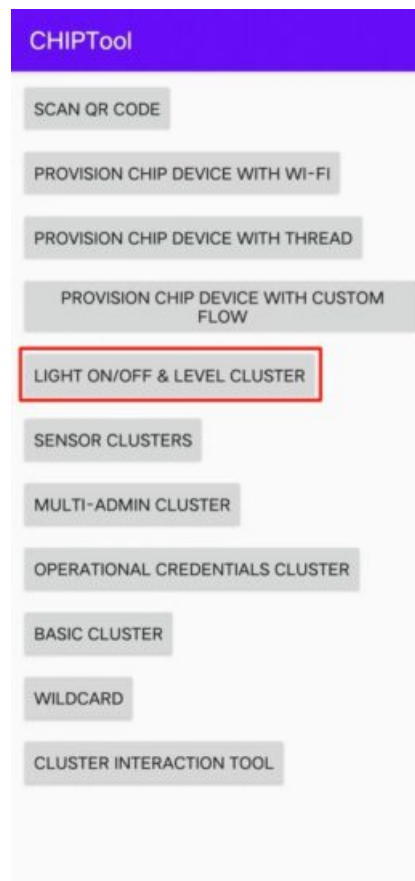
Master Key:
00:11:22:33:44:55:66:77:88:99:AA:BB:CC:DD:EE:FF

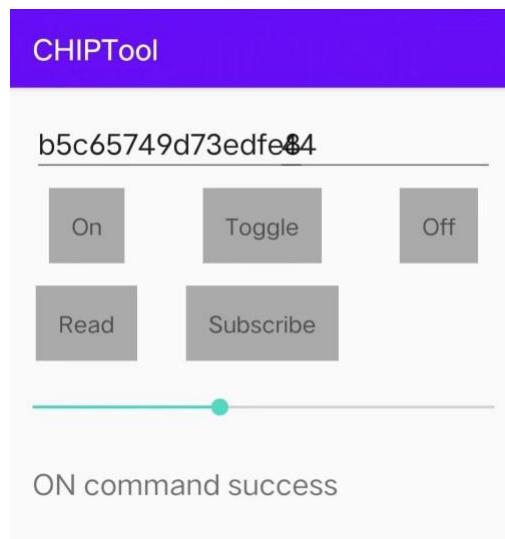
SAVE NETWORK

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](#).

Important Notice and Disclaimer

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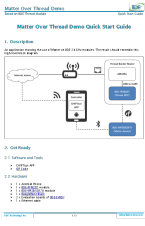
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References

- [BDE Technology Inc.](#)
- [CHIP: QR Code](#)
- [BDE-RFM207\(Multi-Protocol Based on CC2652R\)-BDE Technology Inc.](#)
- [BDE-EVB07-BDE Technology Inc.](#)
- [BDE-MP2652R7A\(Multi-Protocol Based on CC2652R7\)-BDE Technology Inc.](#)
- [BDE-BW3301xPx\(Wi-Fi 6 & LE Combo Pre-release\)-BDE Technology Inc.](#)
- [BEAGL-BONE-BLACK by BeagleBoard.org Foundation | TI.com](#)
- [User Manual](#)