

Project : 433MHz RF Remote Control

Remote control motor on/off and LED on/off with a pair of 433MHz Tx/Rx modules

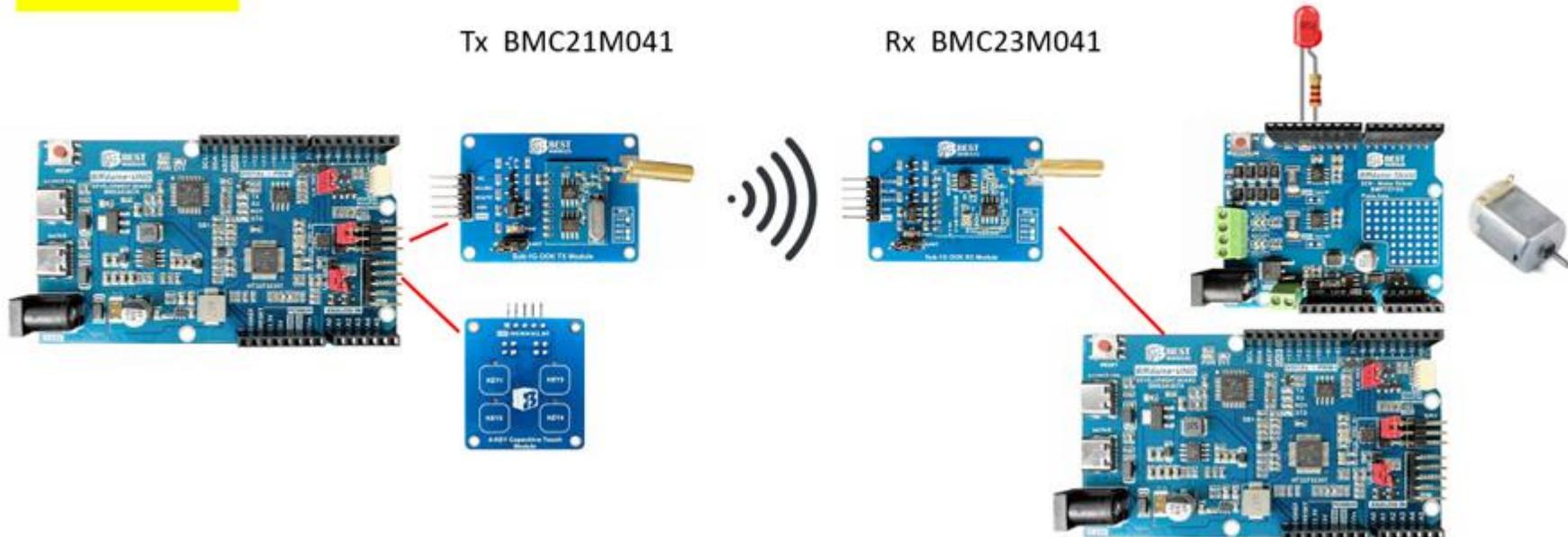
433MHz Transmitter side:

- BM53A367A BMduino UNO
- BMC21M041 433MHz OOK Tx
- BMK52M134 4-key capacitive touch module

433MHz Receiver side:

- BM53A367A BMduino UNO
- BMC23M041 433MHz OOK Rx
- BMP73T102 motor driver shield
- DC motor
- LED

Sub-1GHz OOK



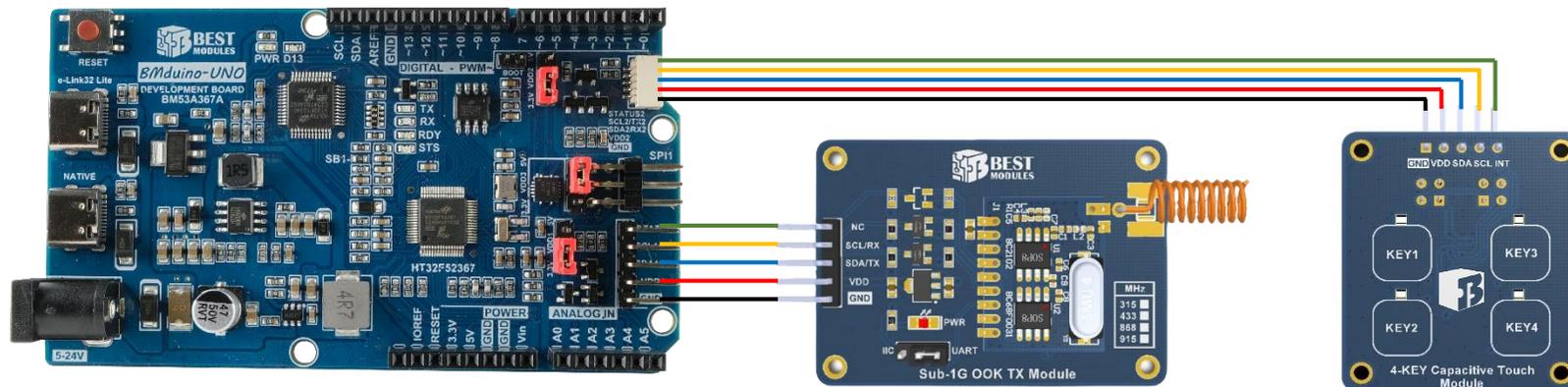
Wire Connection – Tx side

Connection

- Connect BMC21M041 to **BMCOM1** of the BMduino UNO board
- Connect BMK52M134 to **BMCOM2** of the BMduino UNO board

Program code

- BMC21M041_TX.ino



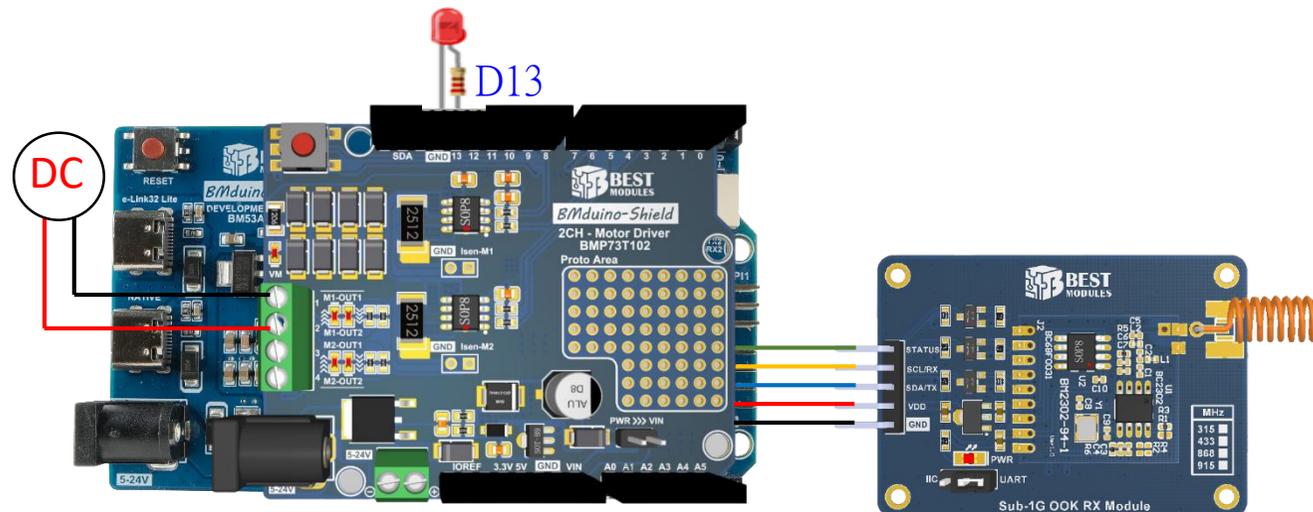
Wire Connection – Rx side (1)

Connection

- Connect BMC23M041 to BMCOM1 of the BMduino UNO board
- Connect BMP73T102 (motor driver shield) to the BMduino UNO board
- Connect DC motor to BMP73T102
- Connect an LED (with resistor for current limit) to D13 pin of BMP73T102

Program code

- BMC23M041_RX_2CH_DcMotor.ino



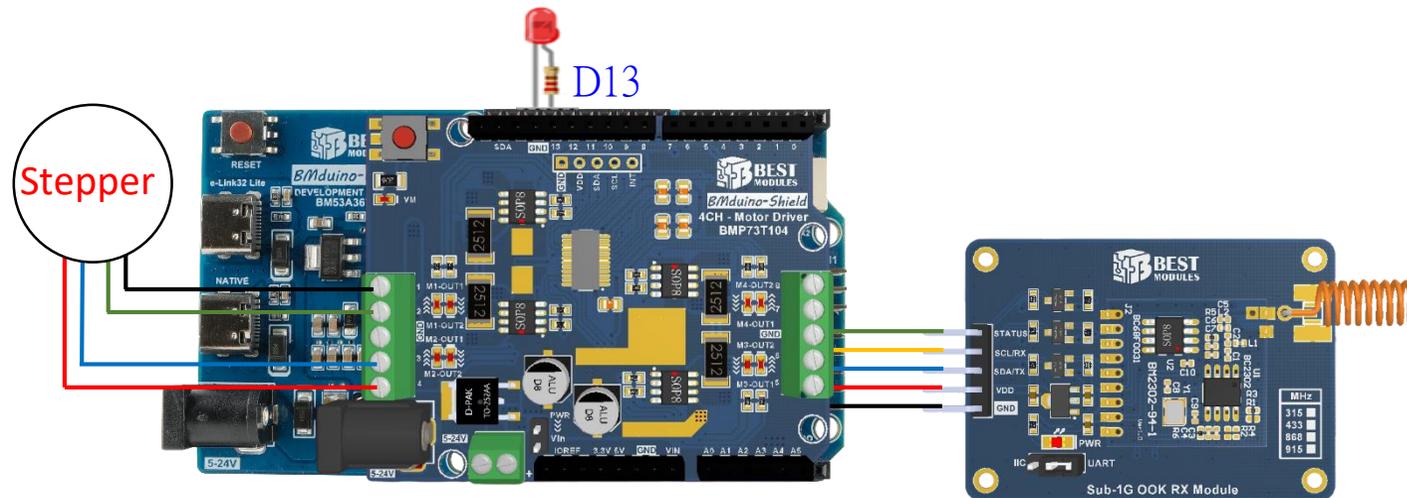
Wire Connection – Rx side (2)

Connection

- Connect BMC23M041 to BMCOM1 of the BMduino UNO board
- Connect BMP73T102 (motor driver shield) to the BMduino UNO board
- Connect stepper motor to BMP73T102
- Connect an LED (with resistor for current limit) to D13 pin of BMP73T102

Program code

- BMC23M041_RX_4CH_StepperMotor.ino



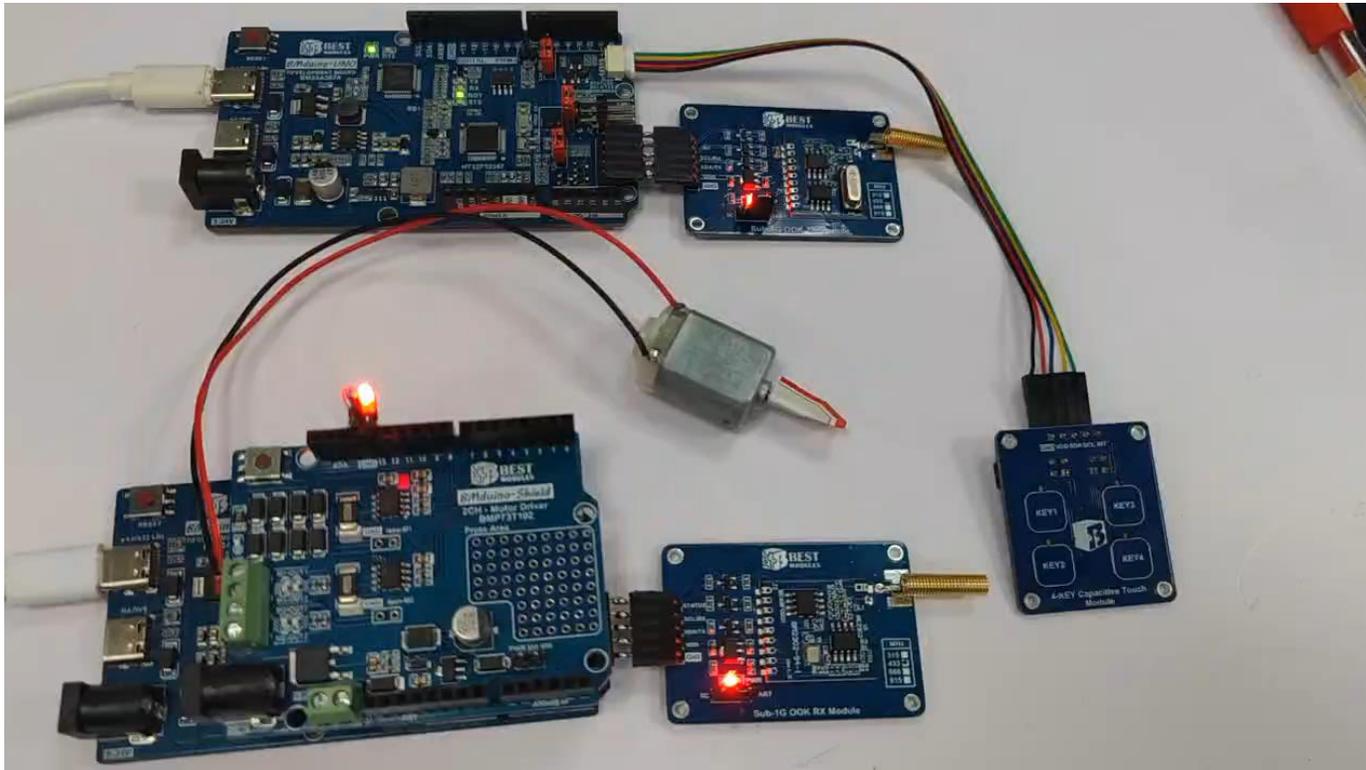
Video - pairing

Pairing :

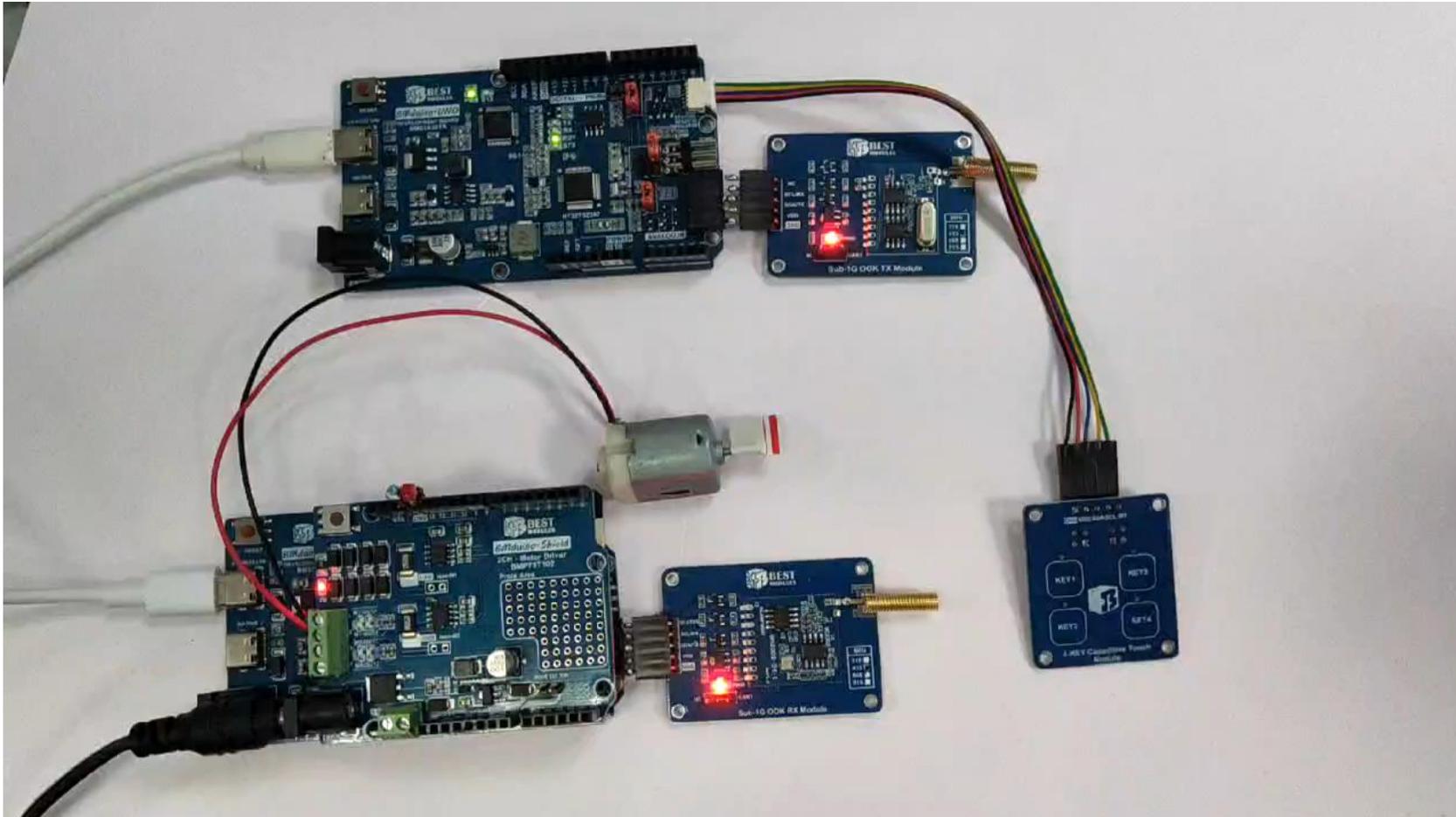
After the RX side is powered on, it will enter pairing mode, and the LED will flash.
Press any Key (except Key3) on the TX side to complete pairing.

→ pairing success : LED turns off

→ pairing failure : LED turns on



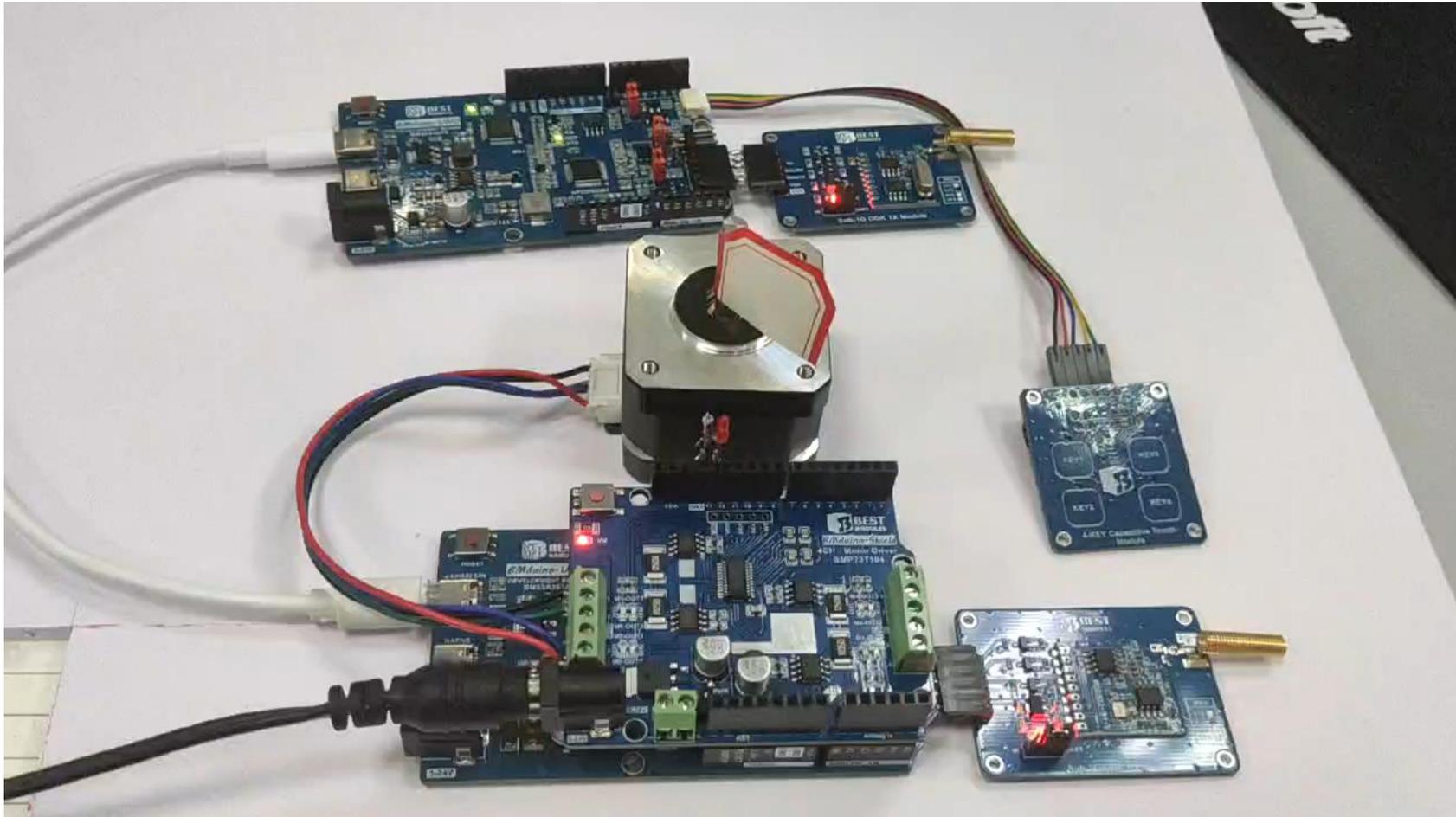
Video – DC motor



Key1: motor runs
Key2: motor stops

Key3: LED flash
Key4: LED off

Video – Stepper motor



Key1: motor runs
Key2: motor stops

Key3: LED flash
Key4: LED off

END