K-Solution Consulting Company Ltd.

PRBMD0x testing

Fix frequency testing

base on EVK

Steps

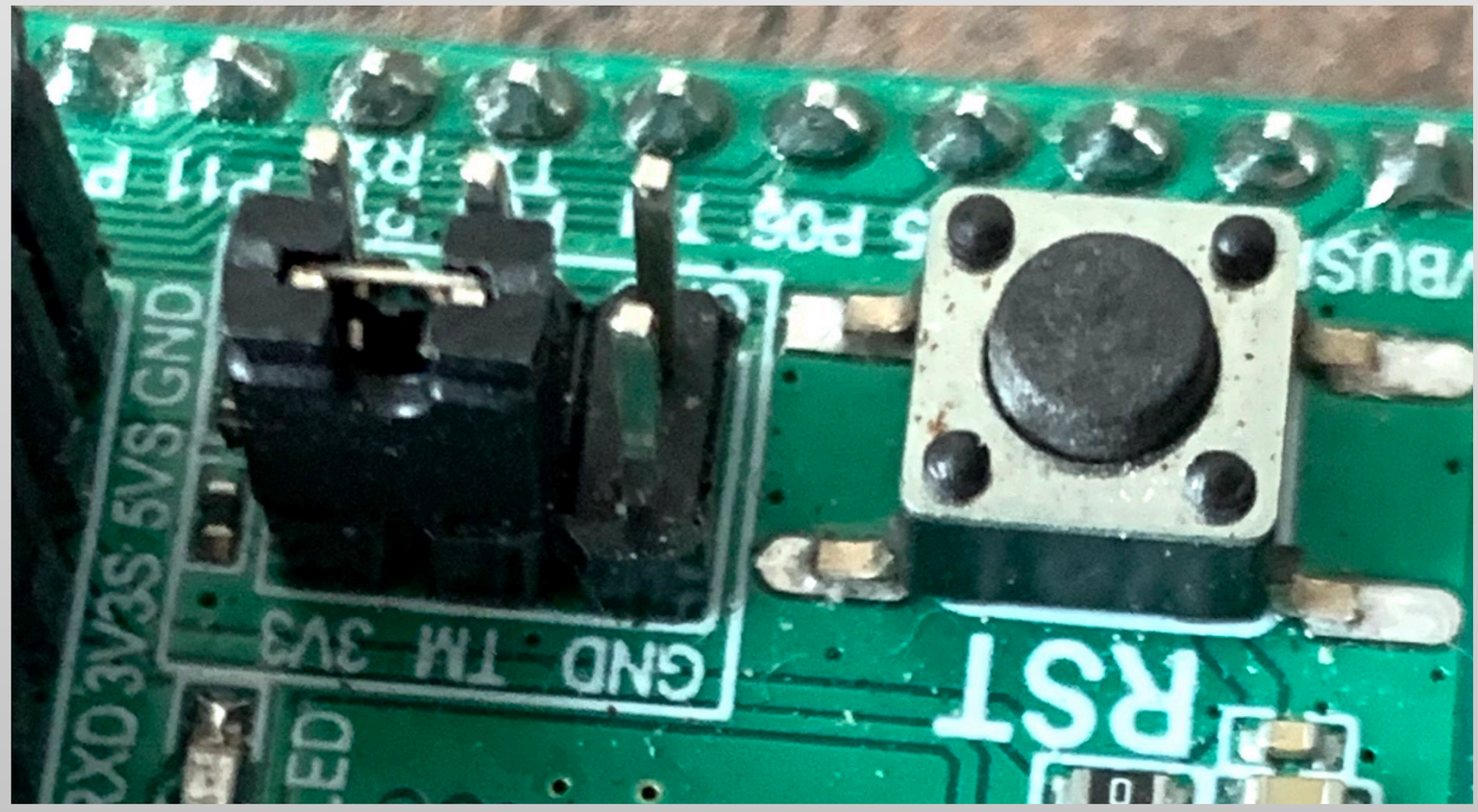
Step 1. update testing firmware

Step 2. Reset the module to operation mode

Step 3. Start RF testing

Step 1 - firmware programming

1. connect PRBMD0x EVK to PC
2. TM pin on the EVK pull High



Step 1 - firmware programming

3. Run PhyPlus Kit

   Press Connect to connect the EVK through UART port

4. Press EVK reset

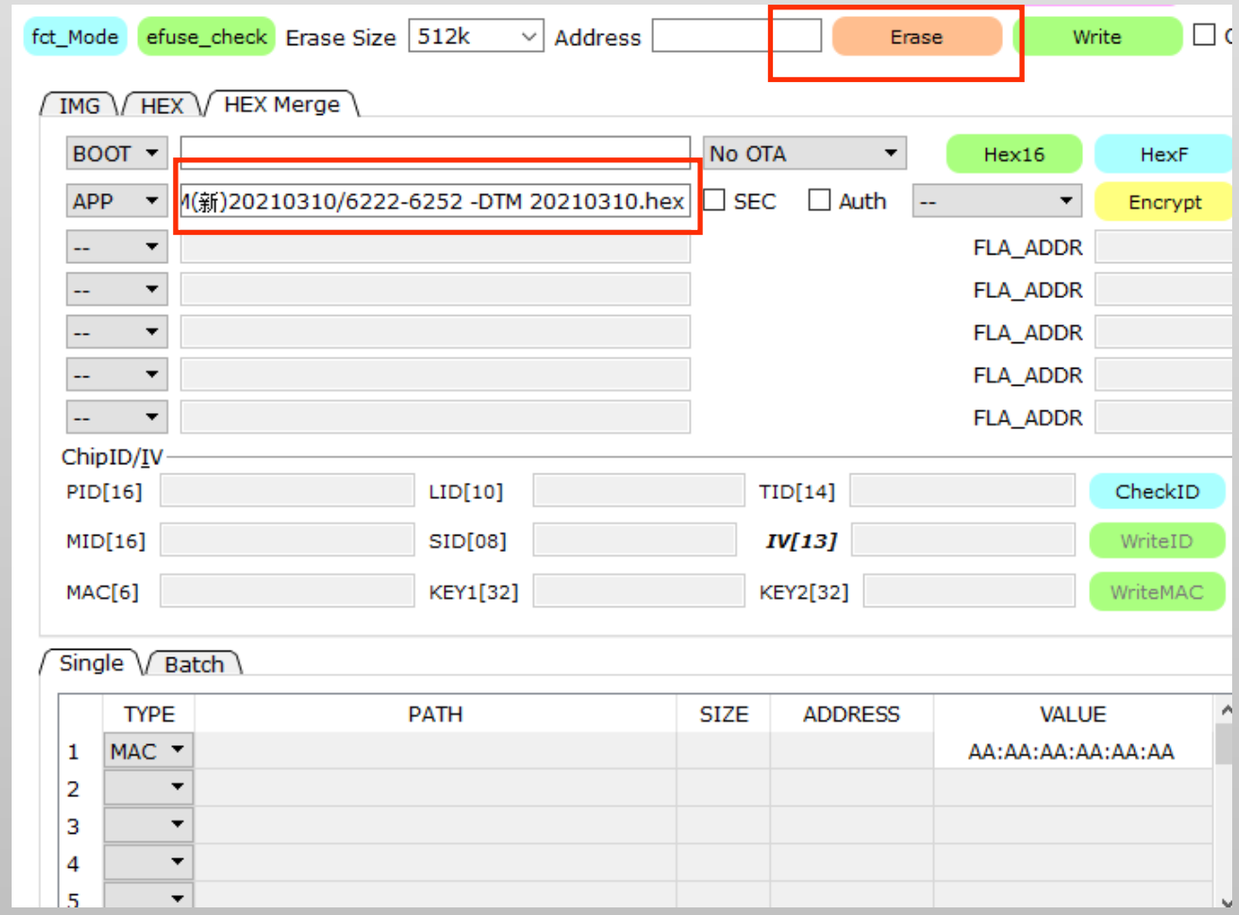
   if “UART RX:cmd〉〉” appears, the module is in programming mode

Step 1 - firmware programming

5. press Erase to erase flash content

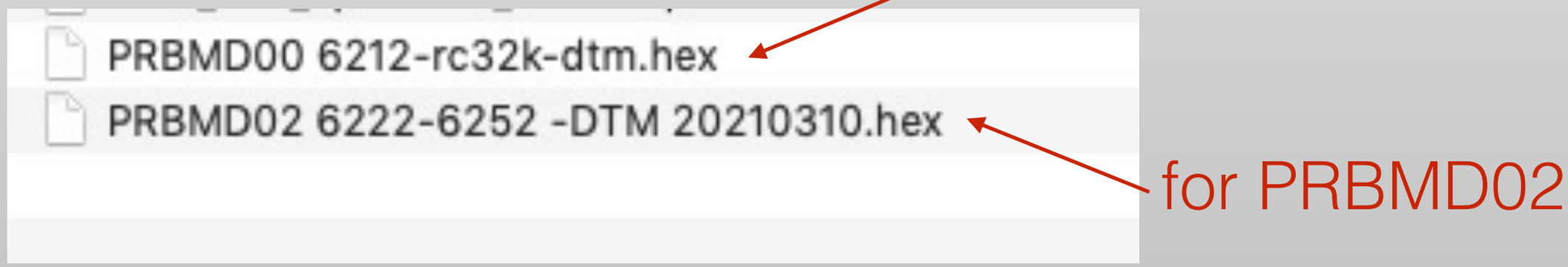
   if Erase success, it will display on the LOG window

6. Double click the APP box and select suitable hex file



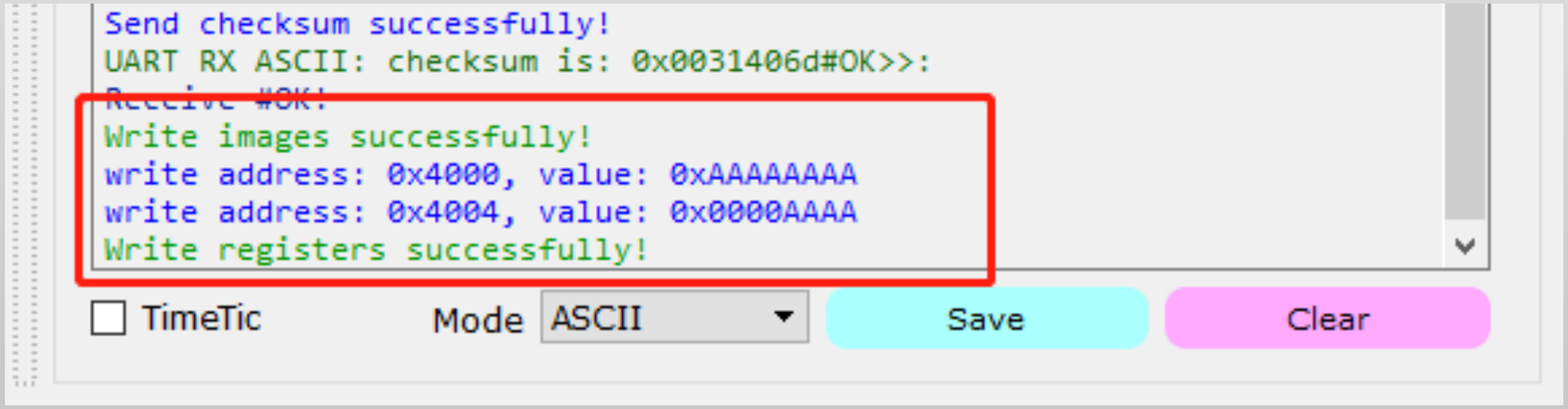
Step 1 - firmware programming

7. If the DTU module is PRBMD00, then select PRBMD00 6212-rc32k-dtm.hex; if it is PRBMD02, then select PRBMD02 6222-6252 -DTM 20210310.hex
8. Then click Write to start programming



Step 1 - firmware programming

9. If program success, two sentences: “ Write image successfully!” and, “Write registers successfully” will appear



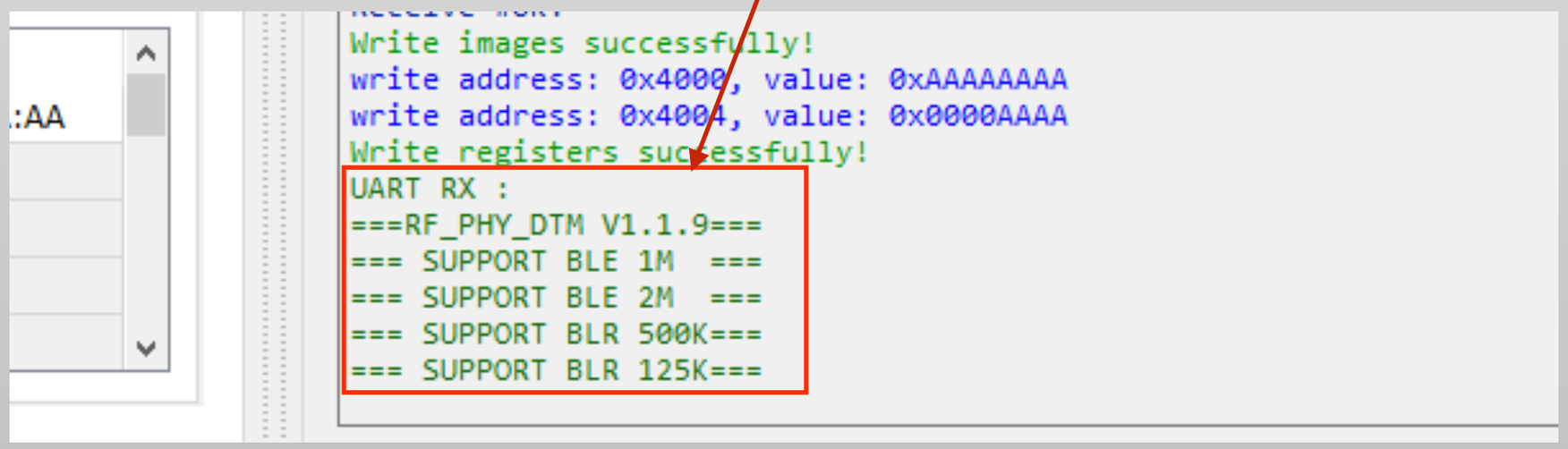
Step 2 - reset module to operation mode

1. turn the TM pin to low
2. Press reset

   Module will send output the following message

   and display on the LOG window

3. Now the module is ready for test



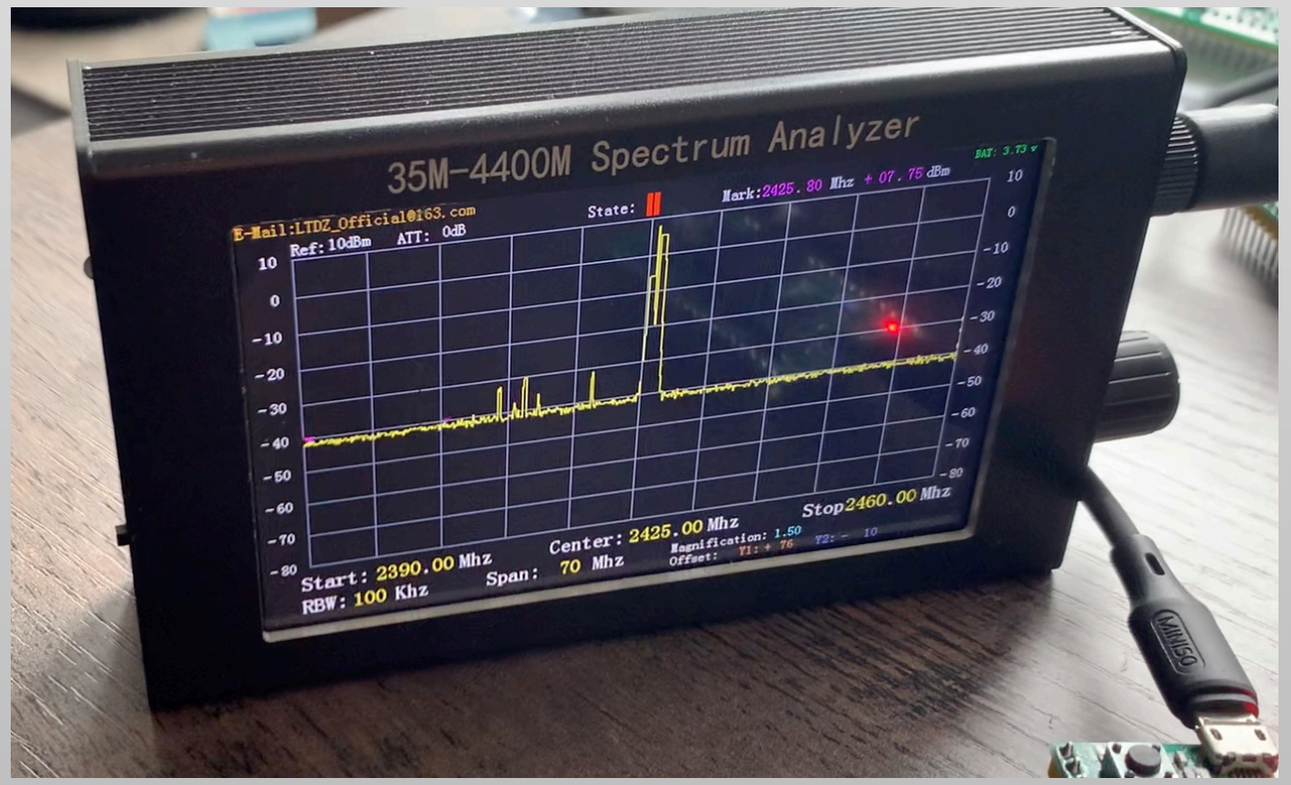
Step 3 - RF test

1. on the PHYPlus Kit, select RF_QuickSet tag
2. Select suitable test mode
3. Select suitable RF channel, package format, length…etc
4. Press Start

Step 3 - RF test

It is suggest to select Tx_Single_tone mode for testing.

After Start button, a frequency can be seen on spectrum analyser



related video

https://youtu.be/vSec8Sk8o9E