

PRBMDØx 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

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



- 3. Run PhyPlus Kit
 - Press Connect to connect the EVK through UART port
- 4. Press EVK reset
 - if "UART RX:cmd \rangle " appears, the module is in programming mode



- 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

t_Mode efuse_check Erase Size	512k × Address		E	rase	Write	
IMG / HEX / HEX Merge \						
BOOT 🔻		No OT	A •	Hex	16 н	lexF
APP 🔻 1(新)20210310/6222-	6252 -DTM 20210310.he	C SEC	Auth		▼ En	crypt
🔻				FLA_	ADDR	
▼				FLA_	ADDR	
🔻				FLA_	ADDR	
🔻				FLA_	ADDR	
🔻				FLA_	ADDR	
ChipID/IV		-				1.10
PID[16]			ID[14]		Che	CKID
MID[16]	SID[08]	1	V[13]		Wri	teID
MAC[6]	KEY1[32]	К	EY2[32]		Write	eMAC
Single V Batch V						
TYPE	РАТН	SIZE	ADDRESS		VALUE	^
1 MAC -				AA:A	A:AA:AA:AA:	AA
2 •						
3						
4 •						

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

Send checksum	<pre>successfully! : checksum is: 0x0</pre>	0031406d#OK	>>:	
Write images : Write address write address Write address	successfully! : 0x4000, value: (: 0x4004, value: (0хаааааааа 0х0000аааа		
write registe	is successfully:			· · · · · · · · · · · · · · · · · · ·



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

