
nRFLauncher - Guide

nRFProduction

MOBILIAN - 11 FEB. 2018



nRFLauncher

1. When to use nRFLauncher?

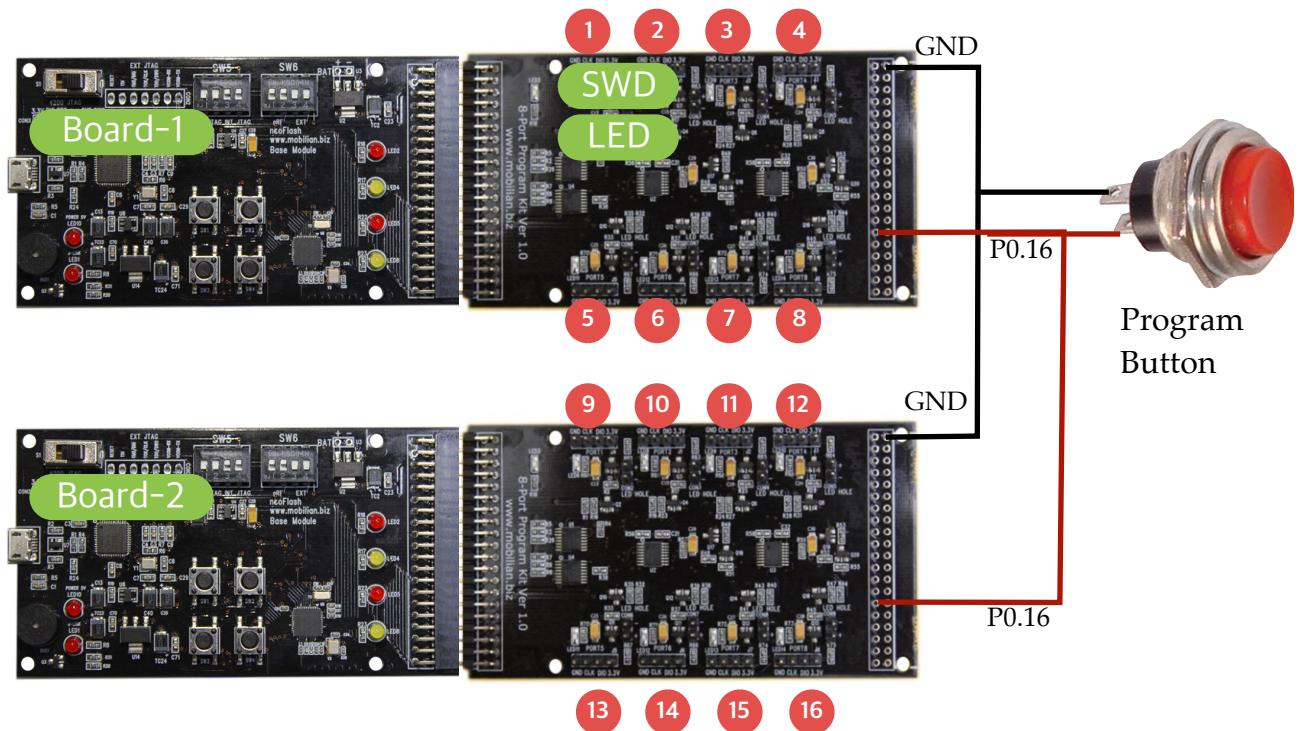
Sometimes users want to extend their target board array more than 8 pieces. But Mobilian nRFProduction solution supports max 8-ports. In this case, we recommend you to use multiple nRFProduction boards.

At the time, users can build their production environment by using nRFLauncher which adjusts user's environment instead of directly executing nRFProduction.

2. Board Connection (2-boards example)

User's target board : 16 pieces

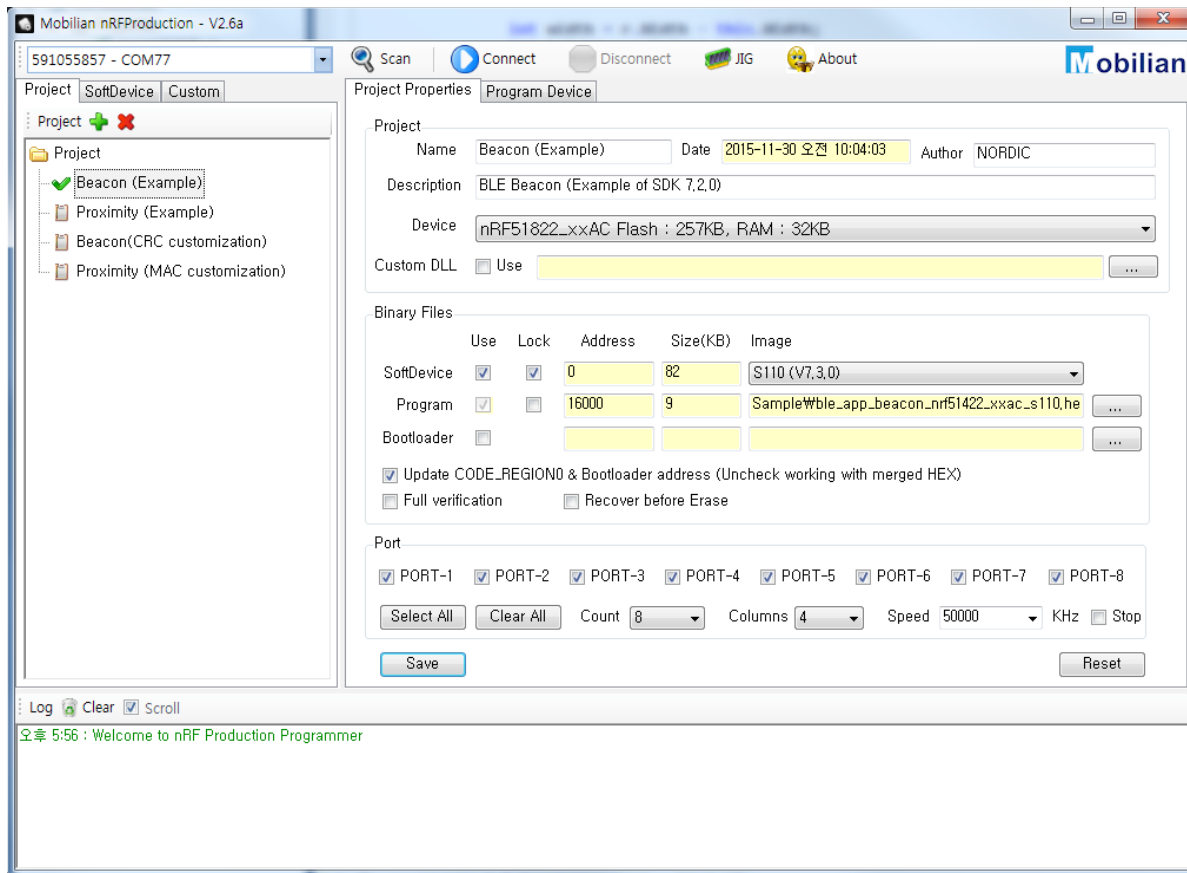
nRFProduction board : 2 pieces



- 1) Connect target device SWD pins to 1~16.
- 2) For convenience, connect LED pins to LED which indicates program is in progress.
- 3) Make common ground among nRFProduction boards
- 4) Prepare push style program button and connect this to P0.16 and ground.

3. Configure Project

Before using nRFLauncher, configure project and test using nRFProduction.



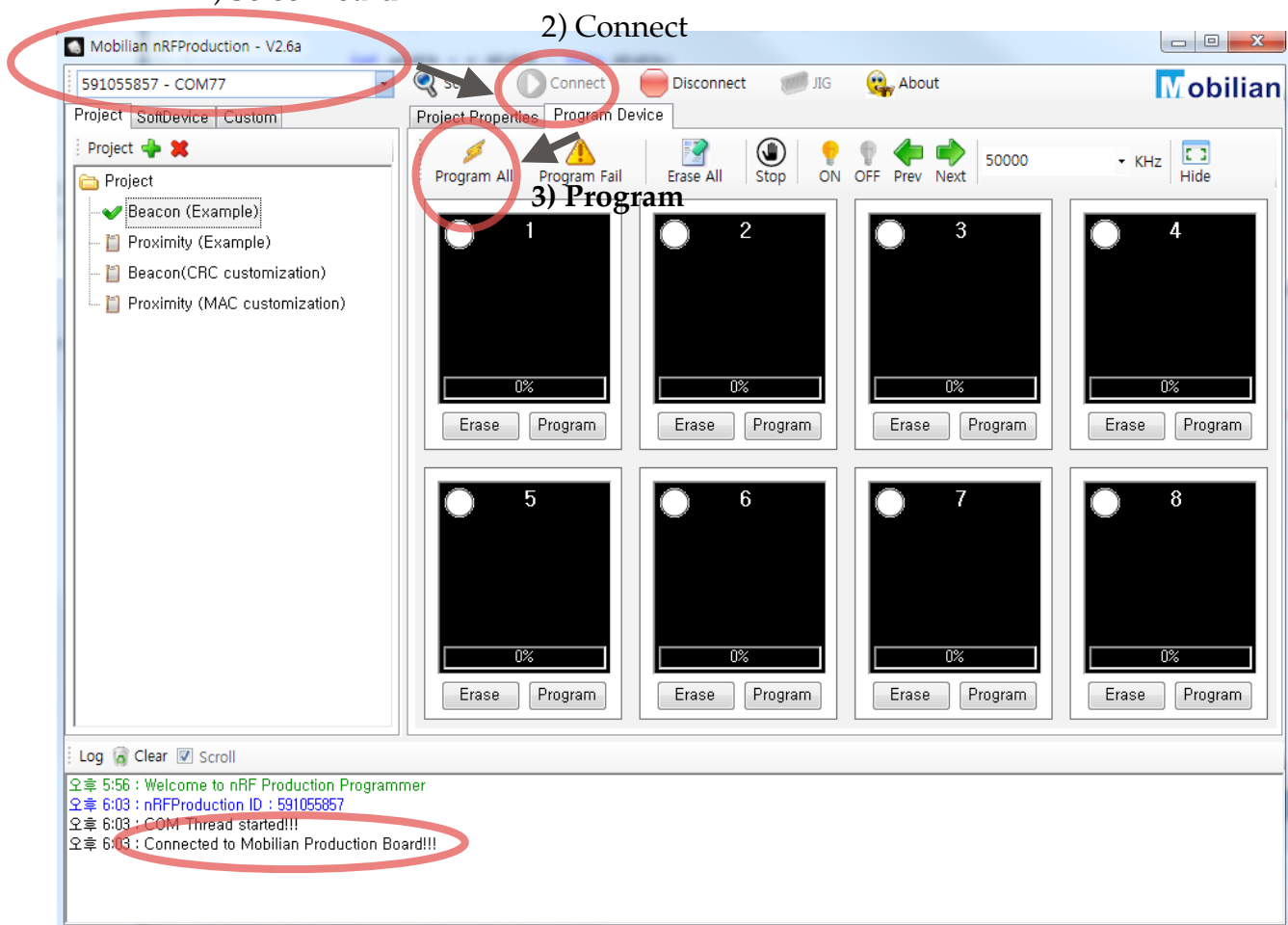
- 1) Create project by pressing + in Project tab.
- 2) In Project Properties select proper device.
- 3) Select SoftDevice / Program / Bootloader.
- 4) Optionally select "Update CODE_REGION0" or "Verification" options.
- 5) Select the Port usage and speed in Port section
- 6) Save project

4. Test Project

1) Select Board

2) Connect

3) Program



After configuring project, select target board and test.

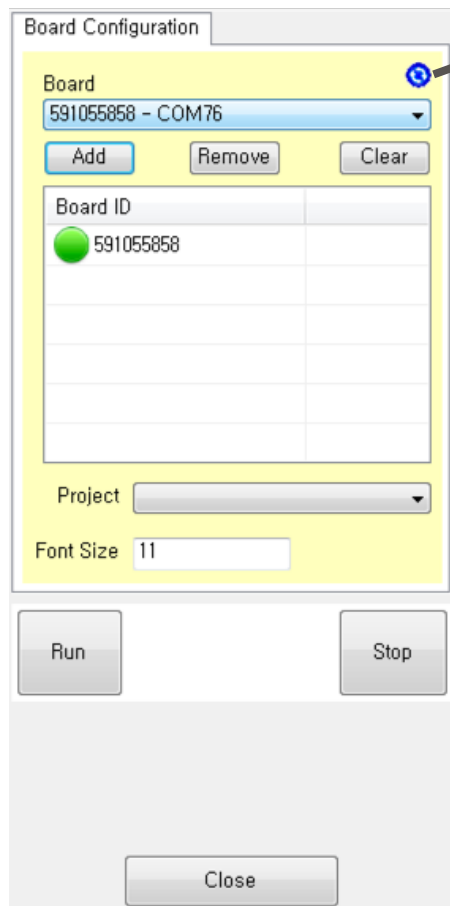
- 1) Select nRFProduction board.
- 2) Check normal connection by selecting "Connect" button in toolbar.
- 3) Press "Program" button and check that the target devices are programmed normally.

5. Using nRFLauncher

As mentioned earlier, above procedures are one-time task. If all the test process are normal, now it's time to use nRFLauncher.

nRFLauncher finds Mobilian's nRFProduction boards which are attached to the PC. User can add or remove nRFProduction board in their production.

- 1) Execute nRFLauncher.exe.
- 2) Assign nRFProduction board and select Project



Refresh nRFProduction board & projects
Add : Append selected board to production
Remove : Remove selected board in the list
Clear : Clear all boards

Project : Select target project
Font Size : Program panel's font size

Run : Execute nRFProduction
Stop : Stop nRFProduction

Close : Stop all nRFProduction instances and terminate

- 3) If all is prepared, click "Run" to run nRFProduction with specified boards and project.

4) When nRFProduction executes, "Log message" will be shown at first.

* Check normal log message. (Board instance and connect status)

Ex)

PM 7:27 : Welcome to nRF Production Programmer

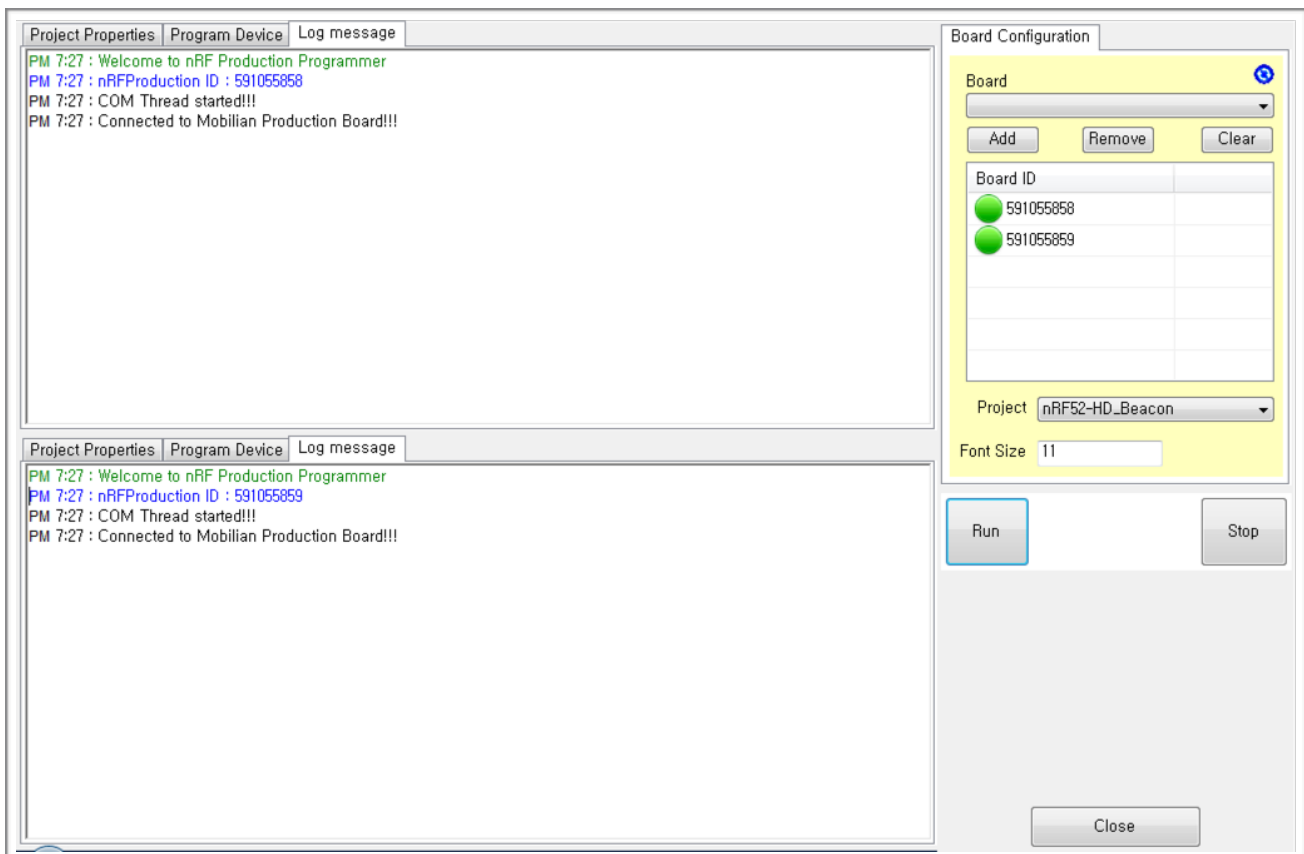
PM 7:27 : nRFProduction ID : 591055858

<- Board ID

PM 7:27 : COM Thread started!!!

PM 7:27 : Connected to Mobilian Production Board!!!

<- Connect Status



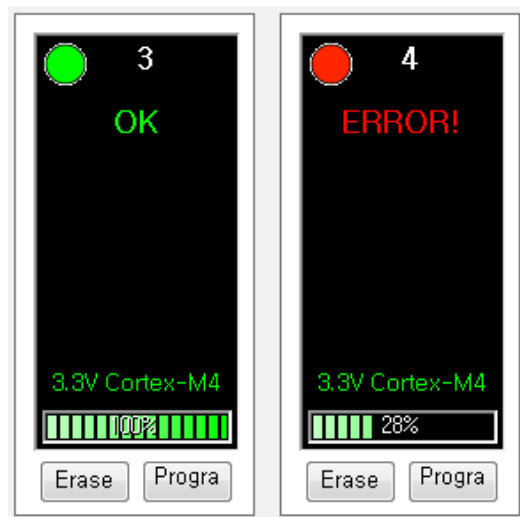
6. Program Target Device

- 1) Press “Program” button in the JIG.
- 2) Observe program status.
- 3) In executing screen, exterior color “Magenta” implies target device is in programming .

* Executing screen



Program OK



Program Error

* In this case, the operator can manually retry program target device to determine good/bad.