Application Note

SC14CVMDECT CVM Module Reprogram Guide

AN-D-235

Abstract

This document guides users to reprogram the stack on the CVM module.

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1 Terms and Definitions

CVM	Cordless Voice Module
MMI	Man Machine Interface

2 Introduction

In openD framework, the CVM module has four stacks, namely Fixed Part Legacy, Portable Part Legacy, Fixed Part HANFUN, and Portable Part HANFUN. According to the usage of the CVM modules, appropriate stack must be programed onto them. This guide aids users in doing that.

3 Instructions

Follow the steps below for reprogramming the stack on the CVM module.

1. Download the Zip file (`configure_module_tools`).
2. Extract the downloaded Zip file (see Figure 1).

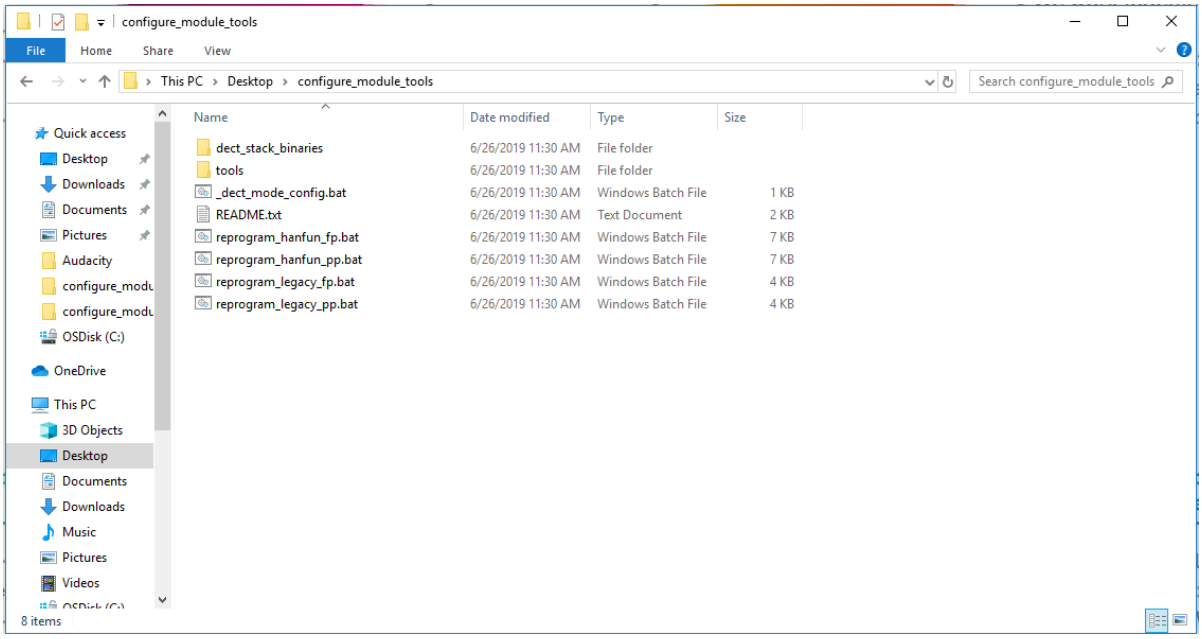

Figure 1: Zip File View

3. Remove the CVM module from the MMI board before starting the re-program process.
4. Connect two jumpers on the hardware as shown in Figure 2 and Figure 3.

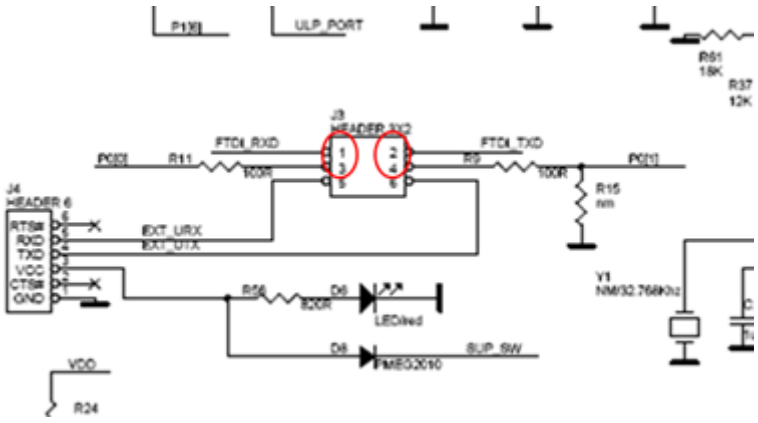

Figure 2: Jumper Settings Schematic

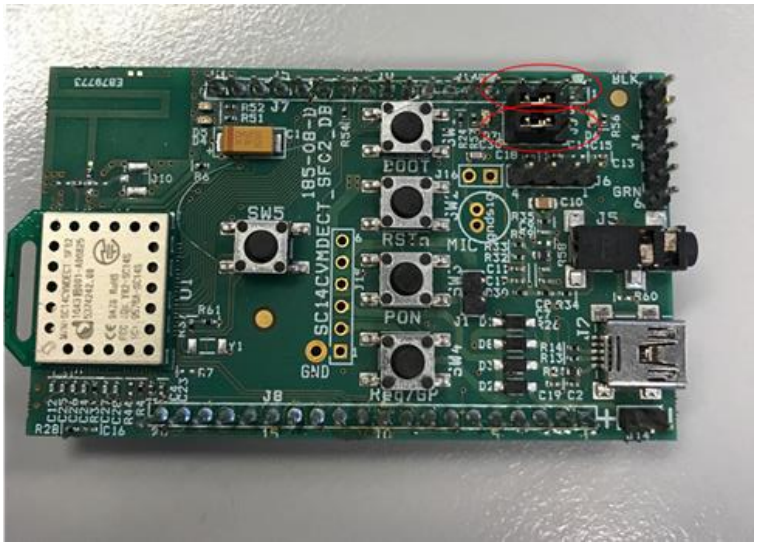

Figure 3: Jumper Settings Actual Image

5. Connect the CVM module via the USB port to a PC (Windows 7/8/10).
6. Wait for the FTDI drivers to be installed and check in the device manager whether the device is displayed as COM*. If not, download drivers from FTDI website.
7. Change the region settings as per requirement by editing `_dect_mode_config.bat` in Notepad (see Figure 4)

```
@echo off
REM DECT Mode to be used by reprogram scripts
REM Uncomment the desirable one
REM Available values:
REM      0 - EU
REM      1 - US
REM      A - JAPAN
REM      B - JAPAN_5CH


set DECT_MODE=0
REM set DECT_MODE=1
REM set DECT_MODE=A
REM set DECT_MODE=B
```

Figure 4: Region Settings Batch File View

8. Select the stack type which you would like to re-program on your module (see Table 1).

Table 1: Available CVM Stack Description

Batch File	Description
`reprogram_hanfun_fp.bat`	This batch file programs the HANFUN Fixed Part stack into the CVM module (used on the Raspberry Pi MMI board).
`reprogram_hanfun_pp.bat`	This batch file programs the HANFUN Portable Part stack into the CVM module (used on the Nucleo MMI board).

Batch File	Description
reprogram_legacy_fp.bat	This batch file programs the Legacy Fixed Part stack into the CVM module (used on the Raspberry Pi MMI board).
reprogram_legacy_pp.bat	This batch file programs the Legacy Portable Part stack into the CVM module (used on the Nucleo Pi MMI board).

9. Follow the instructions as displayed in the command prompt (see Figure 5).

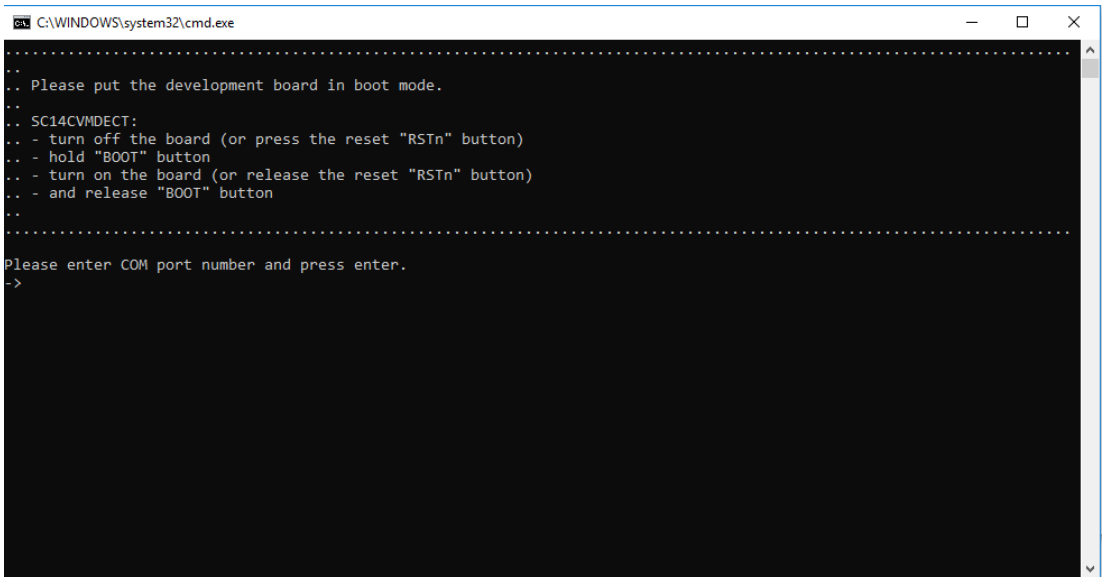

Figure 5: Command Prompt: Start Screen

10. After a successful completion of reprogramming, press the RSTn button on the development kit board, then press Enter on the keyboard, and wait for the image to be activated (see Figure 6)

Figure 6: Command Prompt: Reprogramming Successful Screen

11. The command prompt will exit after the image is activated.

12. After remounting the CVM module back onto the MMI board, please remove the two jumpers which have been connected in step 4.

NOTE
• The command prompt will exit if you put wrong COM port numbers • Pay attention while putting system in Boot mode (pressing and releasing RSTn button, while holding BOOT button). If the CVM module is not in the boot mode, the command prompt will exit

Revision History

Revision	Date	Description
1.1	18-Jan-2022	Update logo, disclaimer, copyright.
1.0	03-Jul-2019	Initial version.

Status Definitions

Status	Definition
DRAFT	The content of this document is under review and subject to formal approval, which may result in modifications or additions.
APPROVED or unmarked	The content of this document has been approved for publication.