

# 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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## Contents

|                                      |          |
|--------------------------------------|----------|
| <b>Abstract</b> .....                | <b>1</b> |
| <b>Contents</b> .....                | <b>2</b> |
| <b>Figures</b> .....                 | <b>2</b> |
| <b>Tables</b> .....                  | <b>2</b> |
| <b>1 Terms and Definitions</b> ..... | <b>3</b> |
| <b>2 Introduction</b> .....          | <b>4</b> |
| <b>3 Instructions</b> .....          | <b>4</b> |
| <b>Revision History</b> .....        | <b>8</b> |

## Figures

|   |   |
|---|---|
| Figure 1: Zip File View .....                                   | 4 |
| Figure 2: Jumper Settings Schematic .....                       | 4 |
| Figure 3: Jumper Settings Actual Image .....                    | 5 |
| Figure 4: Region Settings Batch File View .....                 | 5 |
| Figure 5: Command Prompt: Start Screen .....                    | 6 |
| Figure 6: Command Prompt: Reprogramming Successful Screen ..... | 6 |

## Tables

|  |   |
|--|---|
| Table 1: Available CVM Stack Description ..... | 5 |
|--|---|

## 1 Terms and Definitions

|     |                       |
|-----|-----------------------|
| CVM | Cordless Voice Module |
| MMI | Man Machine Interface |

## SC14CVMDECT CVM Module Reprogram Guide

### 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 programmed 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).

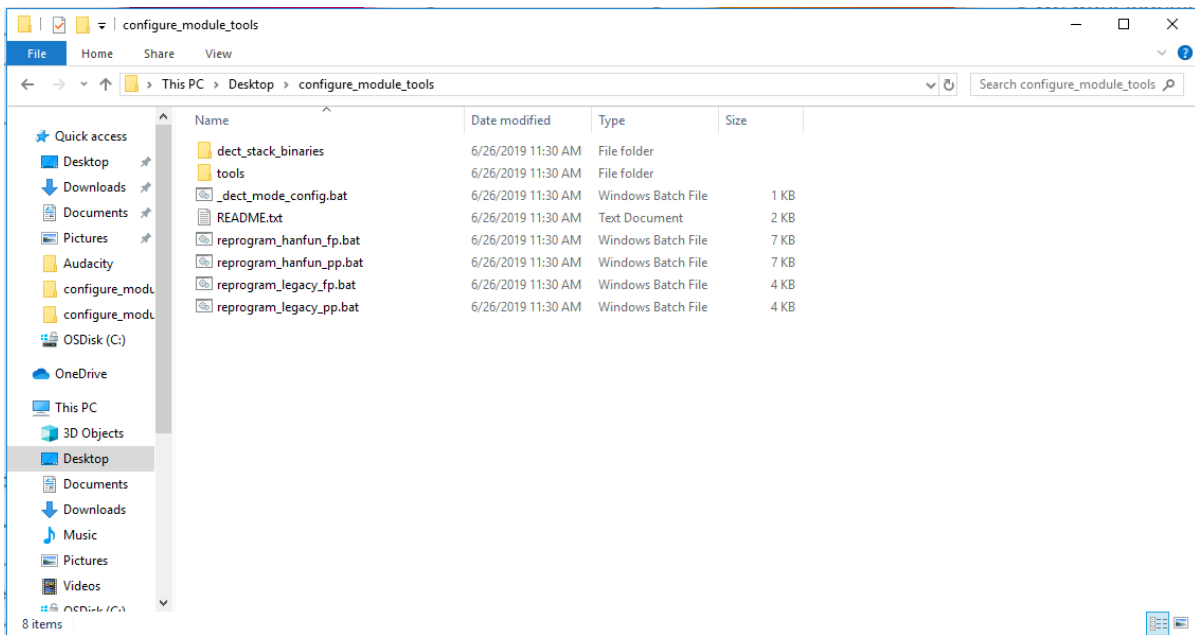


Figure 1: Zip File View

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.

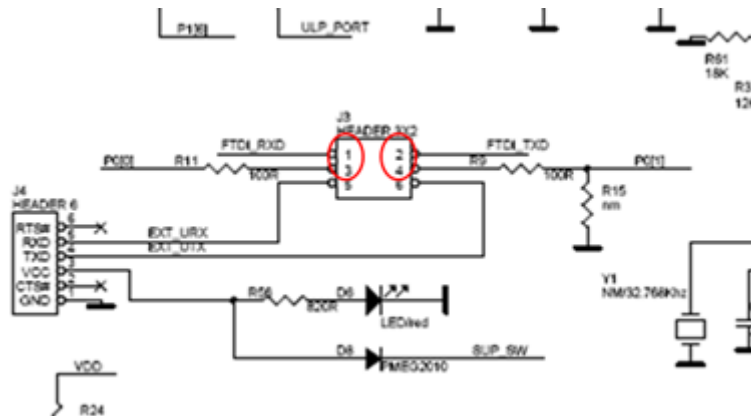


Figure 2: Jumper Settings Schematic

## SC14CVMDECT CVM Module Reprogram Guide

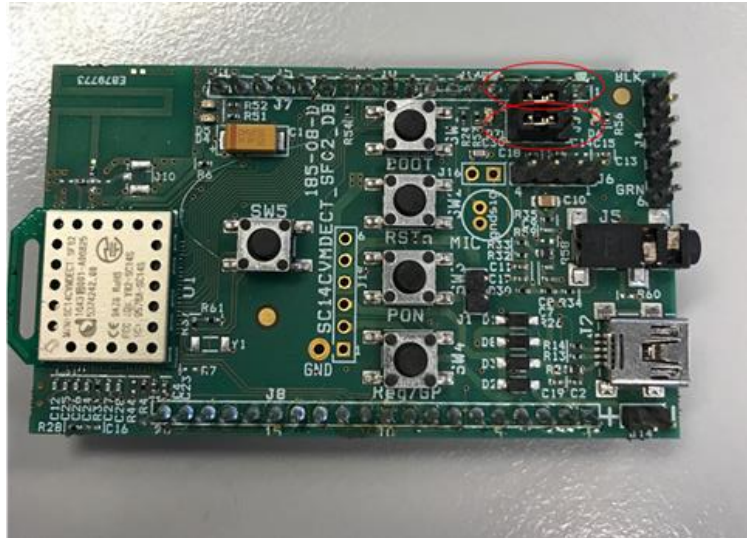


Figure 3: Jumper Settings Actual Image

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  |
|--------------------------------------|--|
| <code>reprogram_hanfun_fp.bat</code> | This batch file programs the HANFUN Fixed Part stack into the CVM module (used on the Raspberry Pi MMI board). |
| <code>reprogram_hanfun_pp.bat</code> | This batch file programs the HANFUN Portable Part stack into the CVM module (used on the Nucleo MMI board).    |

## SC14CVMDECT CVM Module Reprogram Guide

| 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](#)).

```

C:\WINDOWS\system32\cmd.exe
.....
.. Please put the development board in boot mode.
..
.. SC14CVMDECT:
.. - turn off the board (or press the reset "RSTn" button)
.. - hold "BOOT" button
.. - turn on the board (or release the reset "RSTn" button)
.. - and release "BOOT" button
..
.....
Please enter COM port number and press enter.
->
    
```

**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](#))

```

C:\WINDOWS\system32\cmd.exe
ManufacturerID.....: 00C2
DeviceID.....: 2535
Max Sector size.....: 00001000 bytes
Flash size.....: 00200000 bytes
Hex file start address..: 00000000
Hex file program size...: 001FC450
BEGIN ERASE

ERASE CHIP
END ERASE
BEGIN PROGRAMMING
PROGRESS : 00000000,001FC450,001FC450 (100)
END PROGRAMMING
BEGIN CALC CRC32
CRC32 RESULT TgCrc32=92931ED4 FileCrc32=92931ED4
CRC32 OK
END CALC CRC32
ERROR CODE : 0000 Success
THREAD END
Time :86 Sec.
.....
.. Reprogramming was successful
.. Please RESET the board by pressing "RSTn" button on the board
..
.....
Press ENTER when ready....
    
```

**Figure 6: Command Prompt: Reprogramming Successful Screen**

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

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## SC14CVMDECT CVM Module Reprogram Guide

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

| NOTE  |
|---|
| <ul style="list-style-type: none"><li>• The command prompt will exit if you put wrong COM port numbers</li><li>• 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</li></ul> |

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SC14CVMDECT CVM Module Reprogram Guide

**Revision History**

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



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## SC14CVMDECT CVM Module Reprogram Guide

### 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<br>or unmarked | The content of this document has been approved for publication.  |