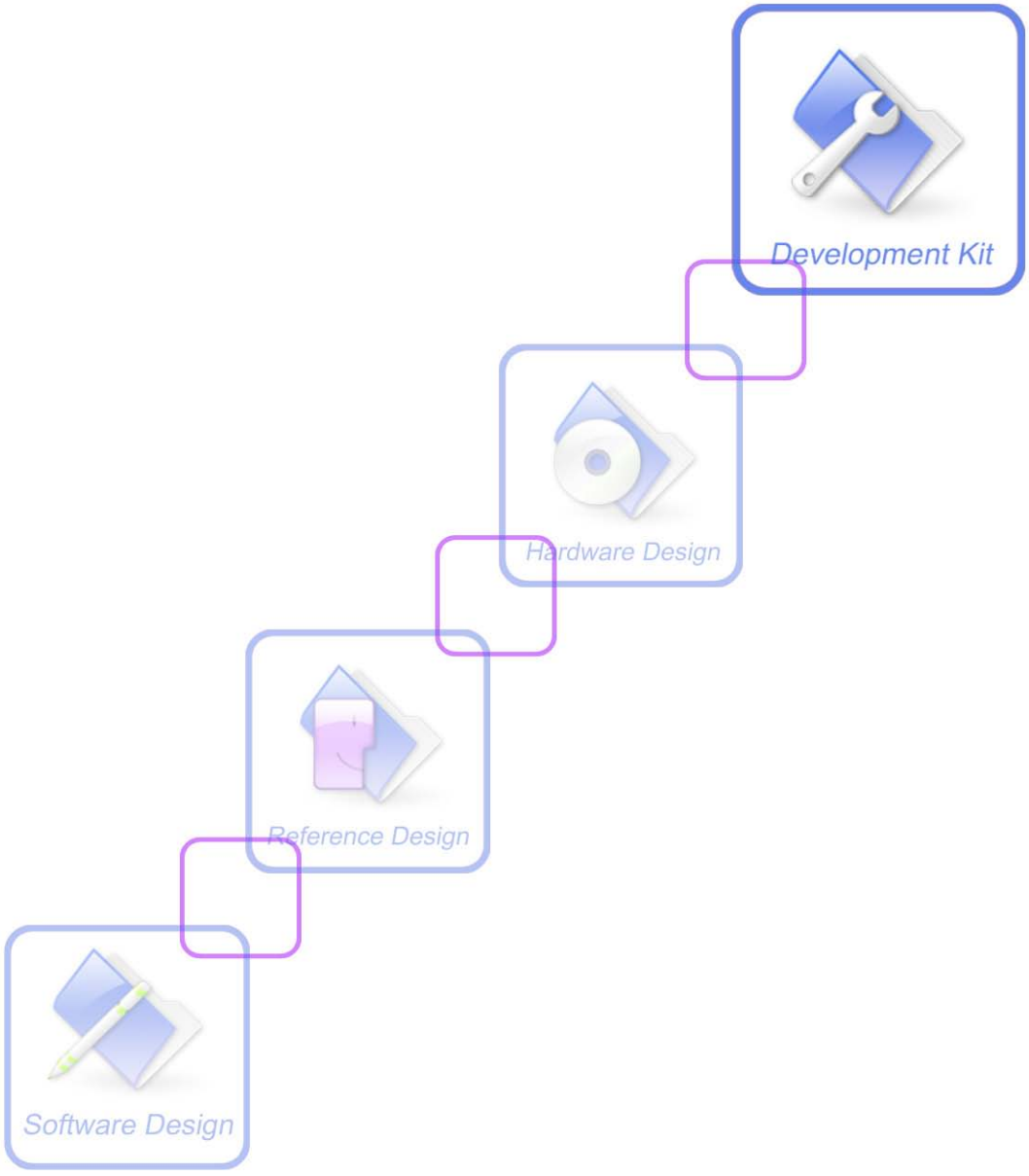
SIM7100 Delta Package Update Application Note



Document Title:	SIM7100 Delta Package Update Application Note
Version:	0.01
Date:	2015-02-10
Status:	Release
Document Control ID:	SIM7100_Delta_Package_Update_Application_Note_V0.01

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Version History

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V0.01	New Version		

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1. Introduction

1.1 Overview

This document will depict the usage of Delta Package update function supplied by SIM7100. User can get useful information about the SIM7100 updating function quickly through this document.

1.2 References

SIMCOM_SIM7100_ATC_EN_Vx.xx.doc

1.3 Terms and Abbreviations

For the purposes of the present document, the following abbreviations apply:

- AT ATtention; the two-character abbreviation is used to start a command line to be sent from TE/DTE to TA/DCE

2. Software Version management

User uses the at command AT+SIMCOMATI to get the current software version information: (AS red font marked).
AT+SIMCOMATI
Manufacturer: SIMCOM INCORPORATED
Model: SIMCOM_SIM7100C
Revision: 4534B01SIM7100C
Revision(AP): 4534B01
SIM7100C_4534_140926_V1.00
QCN:
IMEI:
+GCAP: +CGSM
DeviceInfo: 200,170

In order to update software version by delta method , user must select the correct delta .zip file according to :
The current software version(by AT +SIMCOMATI).
The software version what you want to update to.
For example:
V1: SIM7100C_4534_140926_V1.00

V2: SIM7100C_4534_140930_V1.00

As we see,V1 is the current software version, and V2 is what you want to.
So user should select .zip file below.
SIM7100C_4534_140926_V1.00_SIM7100C_4534_140930_V1.00.zip

3. Use Delta Package Update

3.1 step by step

1) You must have the right delta package ready on FTP server first.
2) You need to download the delta package into the module filesystem by the AT command +NETACT and +COTA
3) Now you need to use the AT command +CDELTA to put the delta package to the specified partition on the module.
4) Last you just need to reset the module.

After the module resets it will check to see if it needs to update the firmware, if so it will enter the updating process and the status led will blinking for attention.

After the updating process finished it will reset again and start-up with the new firmware.

3.2 Example

1) Assume you select the delta zip: fileSIM7100C_4534_140926_V1.00_SIM7100C_4534_140930_V1.00.zip

2) AT+NETACT =1 command activates the network of the module.

3) AT+COTA=”SIM7100C_4534_140926_V1.00_SIM7100C_4534_140930_V1.00.zip”, “FTP ADDRESS”,”PORT”,”USERNAME”,”PASSWORD”
This command would download the delta package to the module from server.
FTP ADDRESS: the ftp server address;
PORT: the ftp server port
USERNAME: the username
PASSWORD: the password

4) AT+CDELTA
This command will prepare for the fota update. The module will be reset automatically and update the firmware.

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