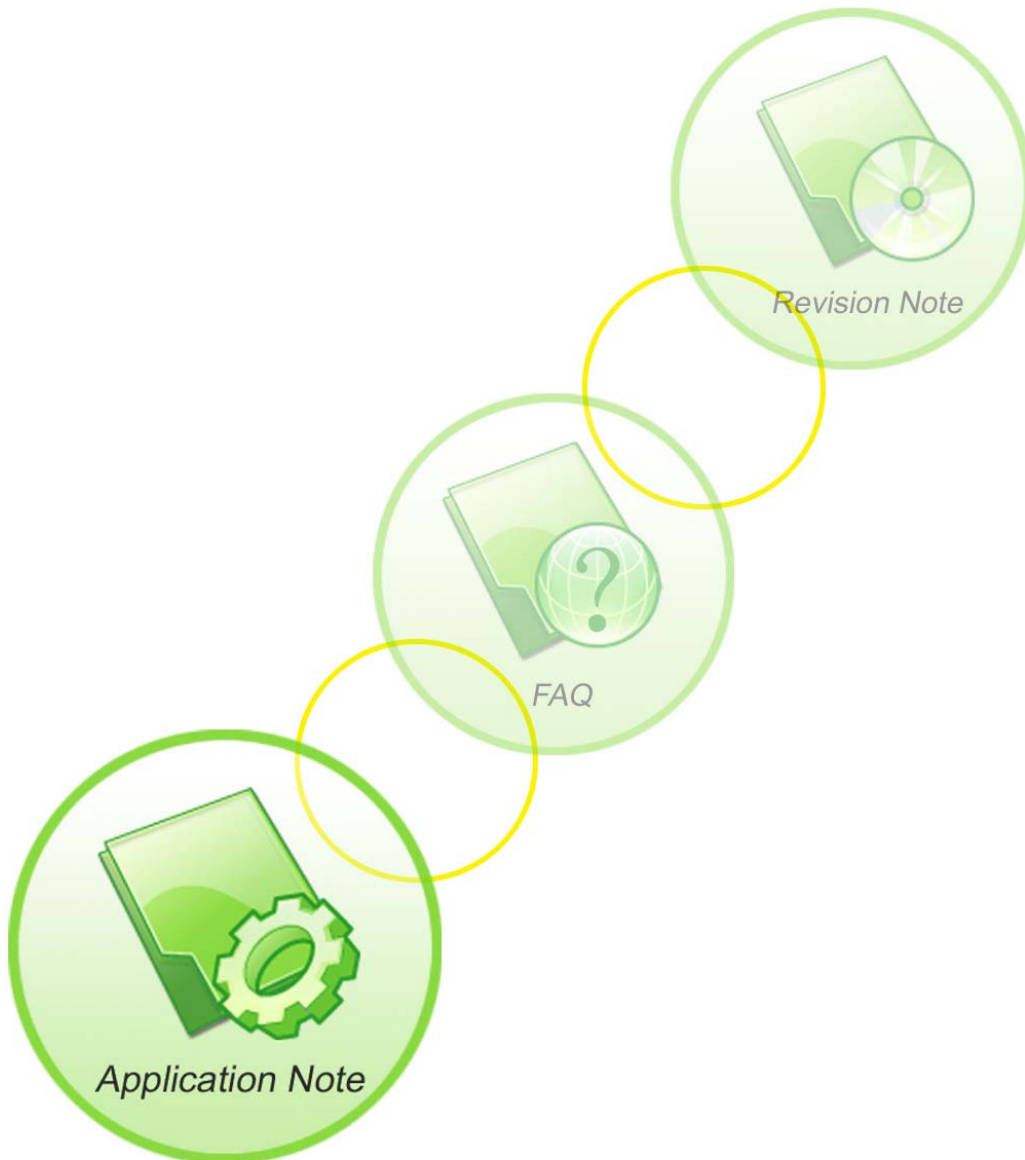




# SIMCom WCDMA Wireless Module

## SIM5xxx\_Automatic\_power\_on\_Application\_Note



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| <b>Document Title:</b>      | SIM5xxx_Automatic_power_on_Application_Note       |
| <b>Version:</b>             | 1.01  |
| <b>Date:</b>                | 2012-08-14  |
| <b>Status:</b>              | Release   |
| <b>Document Control ID:</b> | SIM5xxx_Automatic_power_on_Application_Note_V1.01 |

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## Version history

| Date       | Version | Description of change | Author  |
|------------|---------|-----------------------|---------|
| 2012-08-14 | 1.01    | Origin                | 3G team |
|            |         |                       |         |
|            |         |                       |         |

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## 1 Introduction

This document describes how to power on SIM5xxx module automatically.

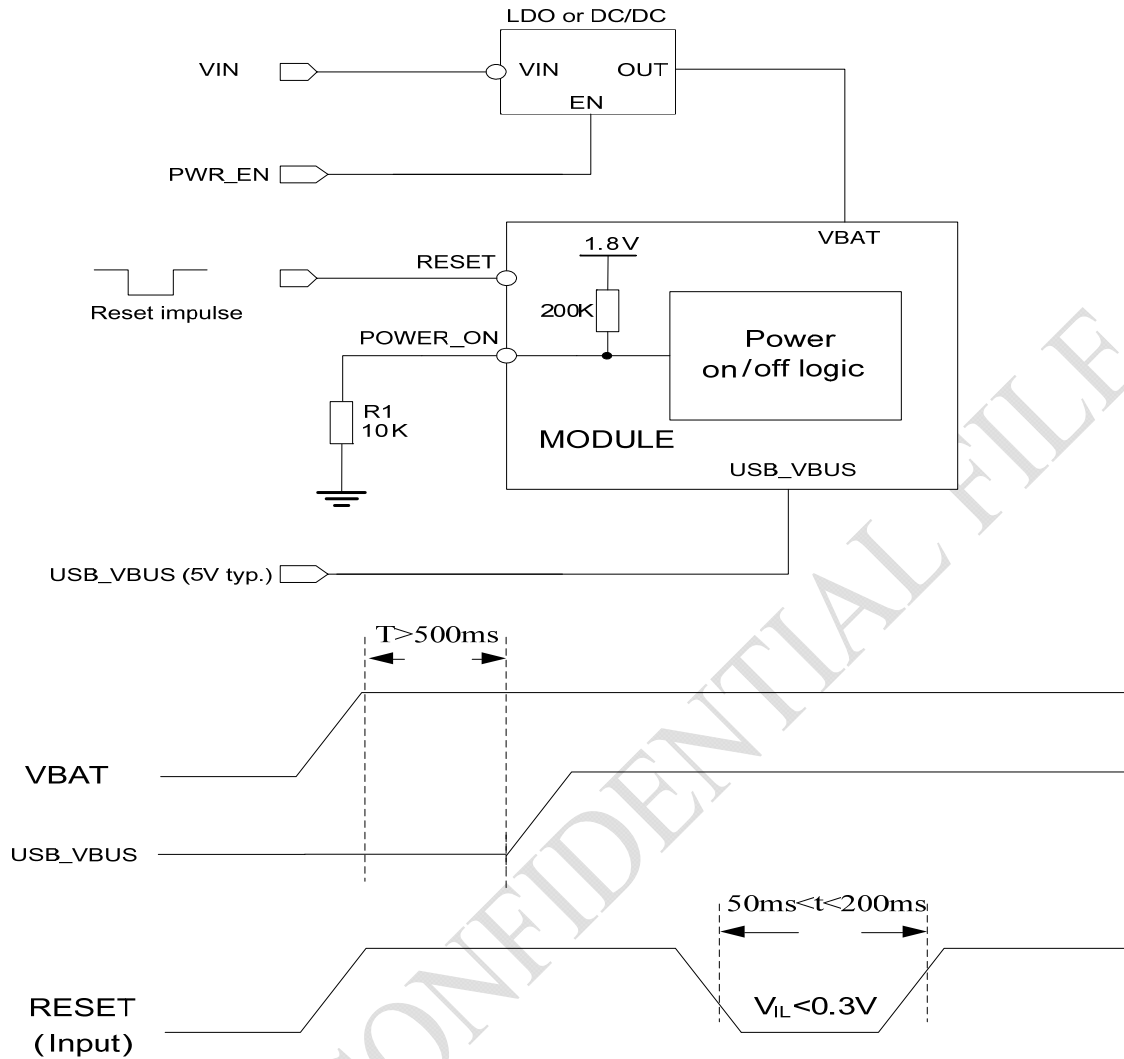
## 2 Scope of the document

The following SIM5XXX modules are related in this document.

- SIM5215/SIM5216
- SIM5218
- SIM5320
- SIM5320JE-TE

## 3 Design guide

If user needs to power on SIM5xxx automatically whenever the VBAT pins are connected to the power supply, then POWER\_ON pin is just pulled to ground by a resistance in circuit directly. The following is the reference circuit.



**Figure 1: Application circuit**

When POWER\_ON pin is pulled down to ground, the user can not use AT command "AT + CPOF" to power down the module. We recommend cutting off power supply to power down the module.

If USB\_VBUS is provided earlier than VBAT, the module could be boot failure in the automatically powering on mode. The power supply VBAT has the *priority* of USB\_VBUS.

**Note:** After automatically powering on the module by pulling down POWER\_ON pin to ground anytime, USB/UART may not communicate normally with host, so it is suggested that SIM5xxx should be reset by RESET pin.

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