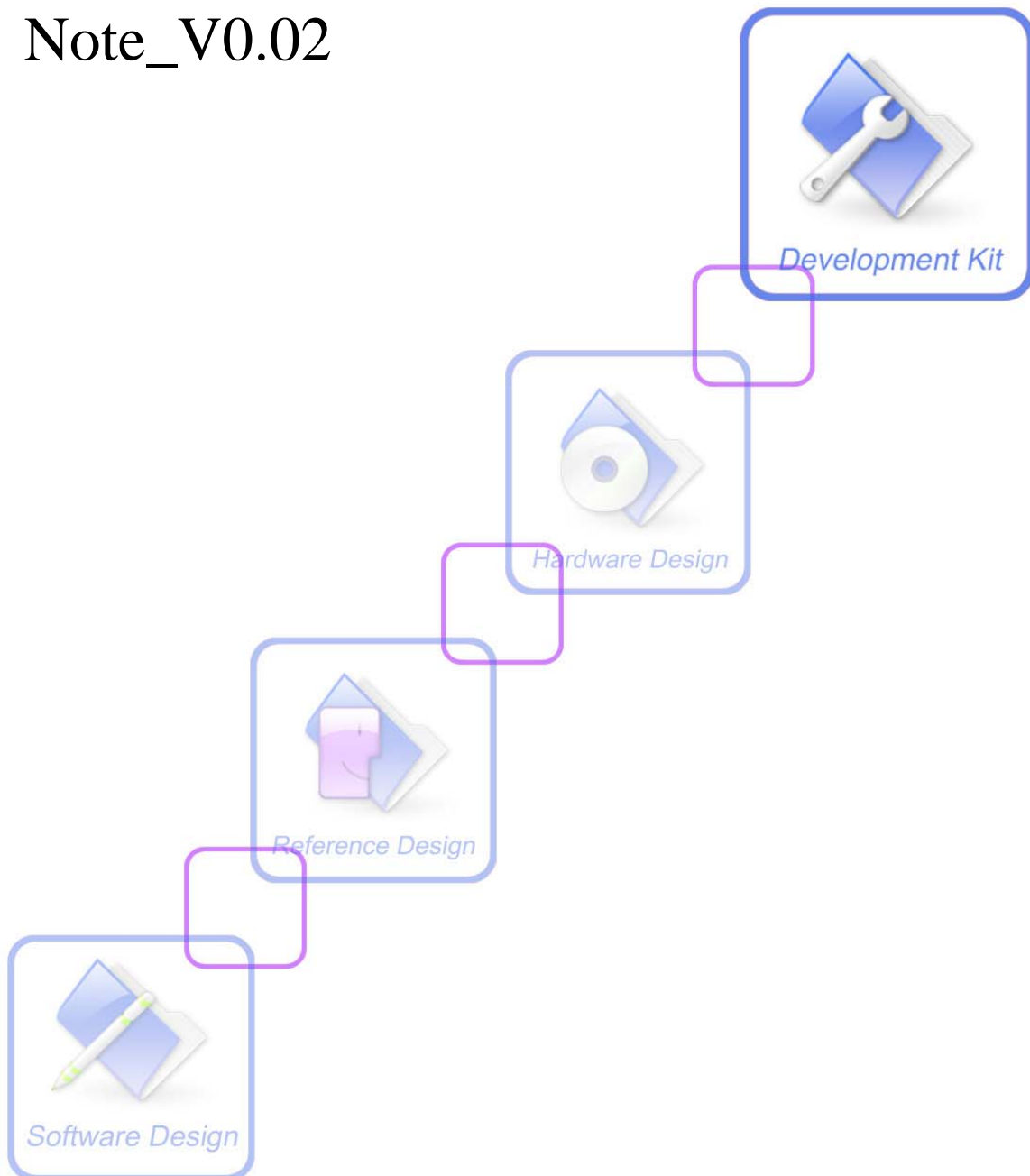




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SIM5360_DDET_Application Note_V0.02



Document Title:	SIM5360 DDET Application Note
Version:	0.02
Date:	2015-06-01
Status:	Release
Document Control ID:	SIM5360_DDET_Application Note_V0.02

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Version history

Date	Version	Description of change	Author
2015-02-03	0.01	Origin	Wenhuan.zhou
2015-06-01	0.02	FIX THE DTMF URC	Wenhuan.zhou

SCOPE

This document describes how to use the DTMF Detection function of SIM5360 through AT commands.

Examples are also given for reference. This document can be used for SIM5360 serial modules, like SIM5360 and SIM5360D.

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AT COMMAND

DTMF detection can be set or activated by DDET command.

AT+DDET

AT+DDET	
Write Command AT+DDET=<status >	Response OK or ERROR or +CME ERROR: <err>
	Parameters <status> 0 disable DTMF detection 1 enable DTMF detection
Reference	Note <ul style="list-style-type: none"> ● This command can be set only when sim card is available and cpin is ready. ● This command cannot be set during a call. If you want use this function, we suggest setting this command before dialing a call. ● Switch of f sidetone algorithm may benefit to the accuracy of DTMF detection. (e.g. AT+SIDET=0,0) ● When a call is connected, DTMF detection will start in 300ms ● “1,2,3,4,5,6,7,8,9,0,#,*,A,B,C,D” only these DTMF strings can be detected.

Example:

AT+DDET=1 //enable DTMF detection

Set up a call connection

ATD*****; //set up a call and wait for call connected

OK

If module detected DTMF, URC will be reported via serial port

+RXDTMF:1 //report DTMF value

+RXDTMF:2

+RXDTMF:3

+RXDTMF:4

+RXDTMF:5

+RXDTMF:6

+RXDTMF:7

+RXDTMF:8

+RXDTMF:9

+RXDTMF:0

+RXDTMF:#

+RXDTMF:*

+RXDTMF:A

+RXDTMF:B

+RXDTMF:C

+RXDTMF:D

Receive an incoming call

RING

ATA; //answering an incoming call

OK

If module detected DTMF, URC will be reported via serial port

+RXDTMF:1 //report DTMF value

+RXDTMF:2

+RXDTMF:3

+RXDTMF:4

+RXDTMF:5

+RXDTMF:6

+RXDTMF:7

+RXDTMF:8

+RXDTMF:9

+RXDTMF:0

+RXDTMF:#

+RXDTMF:*

+RXDTMF:A

+RXDTMF:B

+RXDTMF:C

+RXDTMF:D

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