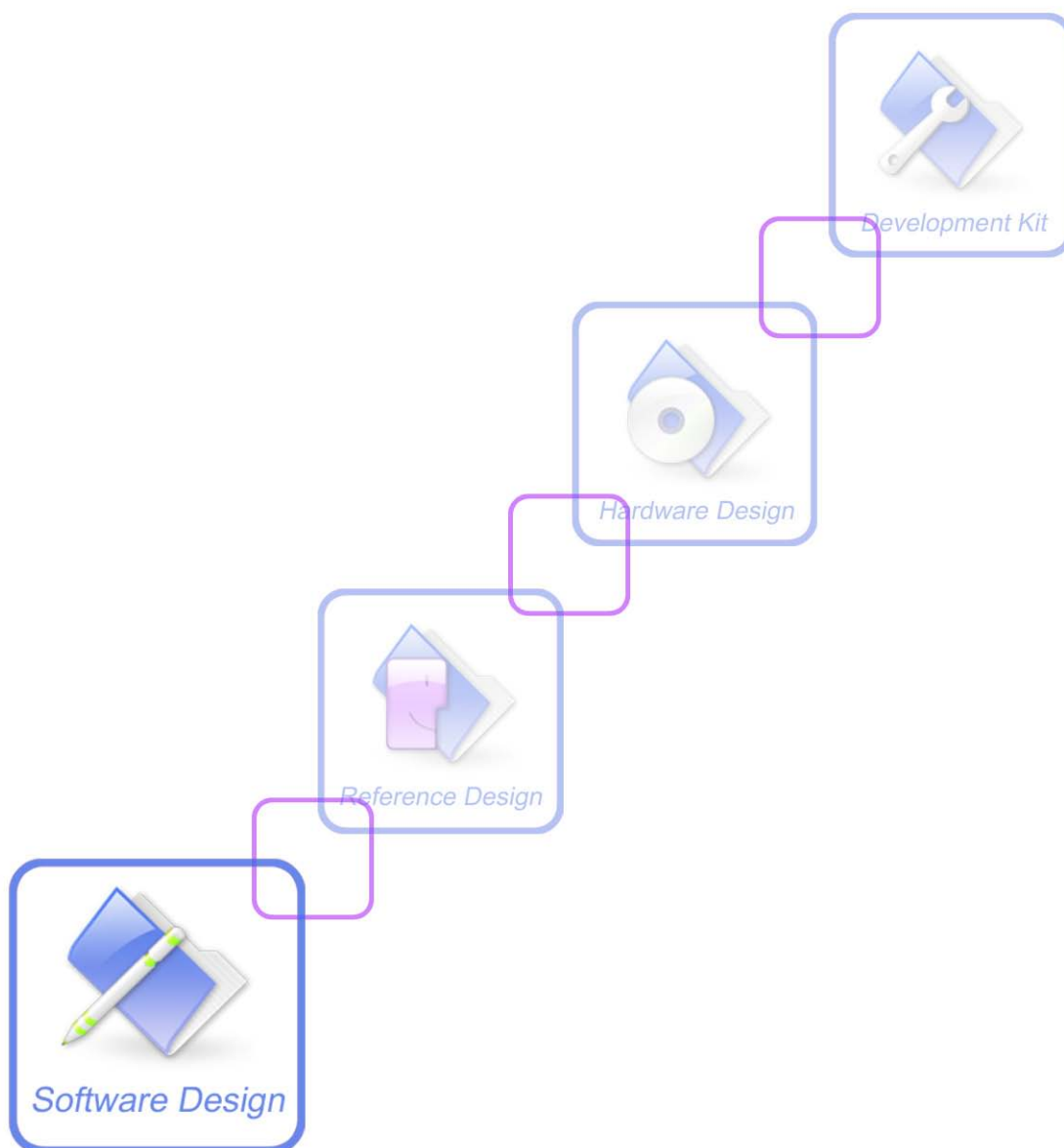




SIM7100 TTS Application Note



Document Title:	SIM7100 TTS Application Note
Version:	0.01
Date:	2015-06-15
Status:	Release
Document ID:	SIM7100_TTS_Application_Note_V0.01

General Notes

SIMCom offers this information as a service to its customers, to support application and engineering efforts that use the products designed by SIMCom. The information provided is based upon requirements specifically provided to SIMCom by the customers. SIMCom has not undertaken any independent search for additional relevant information, including any information that may be in the customer's possession. Furthermore, system validation of this product designed by SIMCom within a larger electronic system remains the responsibility of the customer or the customer's system integrator. All specifications supplied herein are subject to change.

Copyright

This document contains proprietary technical information which is the property of SIMCom Limited., copying of this document and giving it to others and the using or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. All rights reserved in the event of grant of a patent or the registration of a utility model or design. All specification supplied herein are subject to change without notice at any time.

Copyright © Shanghai SIMCom Wireless Solutions Ltd. 2015

Version History

Version	Chapter	Comments
V0.01	New Version	

Contents

Version History	2
Contents	3
TTS Application Note	4
1. Introduction	4
1.1 Overview.....	4
1. TTS Related AT Commands	4
2.1 AT+CTTS TTS operation.....	4
2.2 AT+CTTSPARAM Set TTS Parameters	5
2. TTS Application example	6
3.1 Play synthetic speech with UCS2 text	6
3.2 Play synthetic speech with normal text.....	7
3.3 Stop the synthetic speech	8
3.4 Set the speech parameters	8
Contact Us	9

TTS Application Note

1. Introduction

1.1 Overview

This document gives the usage of SIM7100 TTS functions. User can get useful information about the SIM7100 TTS functions quickly through this document.

The TTS functions are provided in AT command format, and they are designed for customers to design their TTS applications easily. User can access these TTS AT commands through UART/ USB interface which communicates with SIM7100 module.

1. TTS Related AT Commands

Below is the TTS associated with AT commands. Related.

Command	Description
AT+CTTS	TTS operation
AT+CTTSPARAM	Set TTS parameters

2.1 AT+CTTS TTS operation

AT+CTTS TTS Operation	
Test Command AT+CTTS=?	Response OK No parameter
Read Command AT+CTTS?	Response +CTTS: <status> OK Parameter <status> 0 Idle status 1 Play status
Write Command AT+CTTS=<mo>	Response If <mode>is 0, return:

de>,<text>	OK If <mode>is 1 or 2, return: OK +CTTS:0 //speech synth and play end If error is related to MS functionality,response: +CME ERROR: <err>
	Parameter <mode> <ul style="list-style-type: none"> 0 Stop the speech synth and play 1 Start to synth and play, <text> is in UCS2 coding format. 2 Start to synth and play, <text> is in ASCII coding format, Chinese text is in GBK coding format 3 Start to synth and play italian, <text> is in ASCII coding format. <text> The text which is synthesized to speed to be played,maximum data length is 250 bytes.
Reference	Note

2.2 AT+CTTSPARAM Set TTS Parameters

AT+CTTSPARAM Set TTS Parameters	
Test Command AT+CTTSPARAM =?	Response +CTTSPARAM: (0-2),(0-3),(0-3),(0-2),(0-2) OK No parameter
Read Command AT+CTTSPARAM ?	Response +CTTS: <volume>,<sysvolume>,<digitmode>,<pitch>,<speed> OK
Write Command AT+ CTTSPARAM =<volume>[,<sysvol ume>[,<digitmode>[,<pitch>[,<speed>]]]	Response OK If error is related to MS functionality,response: +CME ERROR: <err>

	Parameter <volume> TTS Speech Volume, 0-2 0 The mix volume 1 The normal volume 2 The max volume <sysvolume> The module system volume, 0-3 0 The mix system volume 1 The small system volume 2 The normal system volume 3 The max system volume <digitmode> The digit read mode 0-3 0 Auto read digit based on number rule first. 1 Auto read digit bases on telegram rule first. 2 Read digit based on telegram rule. 3 Read digit based on number rule. <pitch> The voice tone 0-2 0 The mix voice tone. 1 The normal voice tone. 2 The max voice tone. <speed> The voice speed 0-2 0 The mix speed 1 The normal speed 2 The max speed
Reference	Note

2. TTS Application example

Below is the TTS associated with application examples

3.1 Play synthetic speech with UCS2 text

```
AT+CTTS=1,"6B228FCE4F7F75288BED97F3540862107CFB7EDF" //note:txt UCS2 coding
format.
```

```
OK //note:speech synthetic
```

+CTTS:0 *successful, the tts voice will play with the current channel.*
//note:Speech played over;User need s to waiting this response to play the next speech!

AT+CTTS=3," Lasiai pensare Ma questo per lui e per i colleghi" *//note:txt ASIIC coding formatt, PlayItalian.*

OK *//note:speech synthetic successful, the tts voice will play with the current channel.*

+CTTS:0 *//note:Speech played over;User needs to waiting this response to play the next speech!*

3.2 Play synthetic speech with normal text

AT+CTTS=1,"hello, 欢迎使用语音合成系统" *//note:txt ASIIC coding format, chinese is GBK coding format.*

OK *//note:speech synthetic successful, the tts voice will play with the current channel.*

+CTTS:0 *//note:Speech played over;User need s to waiting this response to play the next speech!*

3.3 Stop the synthetic speech

AT+CTTS=0

*//note:stop playing
synthetic speech.*

OK

*//note:synthetic
speech.is successful end*

3.4 Set the speech parameters

AT+CTTSPARAM=1,3,0,1,1

*//note:set the speech
parameters*

OK

*//note:set the successful
for parameter.*

Contact Us

Shanghai SIMCom Wireless Solutions Ltd.

Add: Building A, SIM Technology Building, No.633, Jinzhong Road, Changning District
200335

Tel: +86 21 3252 3300

Fax: +86 21 3252 3301

URL: <http://www.sim.com/wm/>