



SIM7100_SIM7600 Series_TTS_Application Note

LTE Module

SIMCom Wireless Solutions Limited

SIMCom Headquarters Building, Building 3, No. 289
Linhong Road, Changning District, Shanghai P.R. China

Tel: 86-21-31575100
support@simcom.com
www.simcom.com

Document Title:	SIM7100_SIM7600 Series_TTS_Application Note
Version:	3.00
Date:	2021.11.19
Status:	Released

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 WIRELESS SOLUTIONS LIMITED. COPYING, TO OTHERS AND USING THIS DOCUMENT, ARE FORBIDDEN WITHOUT EXPRESS AUTHORITY BY SIMCOM. OFFENDERS ARE LIABLE TO THE PAYMENT OF INDEMNIFICATIONS. ALL RIGHTS RESERVED BY SIMCOM IN THE PROPRIETARY TECHNICAL INFORMATION, INCLUDING BUT NOT LIMITED TO REGISTRATION GRANTING OF A PATENT, A UTILITY MODEL OR DESIGN. ALL SPECIFICATION SUPPLIED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

SIMCom Wireless Solutions Limited

SIMCom Headquarters Building, Building 3, No. 289 Linhong Road, Changning District, Shanghai P.R. China

Tel: +86 21 31575100

Email: simcom@simcom.com

For more information, please visit:

[TTSs://www.simcom.com/download/list-863-en.html](https://www.simcom.com/download/list-863-en.html)

For technical support, or to report documentation errors, please visit:

[TTSs://www.simcom.com/ask/](https://www.simcom.com/ask/) or email to: support@simcom.com

Copyright © 2021 SIMCom Wireless Solutions Limited All Rights Reserved.

About Document

Version History

Version	Date	Owner	What is new
V2.00	2020.8.6	Wenjie Lai	Update the format
V3.00	2021.11.19	Xuesong Zhu	Update the format

SIMCom
Confidential

Contents

About Document	3
Version History.....	3
Contents	4
1 Introduction	5
1.1 Purpose of the document.....	5
1.2 Related documents.....	5
1.3 Conventions and abbreviations.....	5
2 TTS Introduction	6
2.1 Characteristic.....	6
3 AT Commands for TTS	7
3.1 Overview of AT Commands for TTS.....	7
4 TTS Examples	8
4.1 TTS play path, local or remote.....	8
4.2 TTS operation, play or stop.....	8
4.3 Set TTS parameters.....	9

1 Introduction

1.1 Purpose of the document

Based on module AT command manual, this document will introduce TTS application process.

Developers could understand and develop application quickly and efficiently based on this document.

1.2 Related documents

[1] SIM7600 Series_AT Command Manual

1.3 Conventions and abbreviations

In this document, abbreviations referred to as following term:

TTS(Text To Speech);

In application, using TTS function by sending AT Command via its serial interface.

2 TTS Introduction

TTS is the abbreviation of Text To Speech. 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 SIM7600 module. Now Chinese and English languages can be supported.

2.1 Characteristic

- **Support Chinese and English;**
 - ✧ **Support Chinese and English**

This function depends on what you select <mode>. GBK code is adopted for Chinese, ASCII code and UCSII are adopted for English.
- **Support saved a wav audio file;**
 - ✧ **Save a wav audio file**

When TTS is playing, program can save PCM data and add a wav header as a wav audio file automatically. This function depends on what you select <mode>, and you must assign location and name of a wav audio file at the same time.

3 AT Commands for TTS

3.1 Overview of AT Commands for TTS

Command	Description
AT+CDTAM	TTS play path, local or remote
AT+CTTS	TTS operation, play or stop
AT+CTTSPARAM	Set TTS parameters

SIMCom
Confidential

4 TTS Examples

4.1 TTS play path, local or remote

```
AT+CDTAM =1
```

```
+CDTAM:
```

```
OK
```

```
AT+CDTAM =0
```

```
+CDTAM:
```

```
OK
```

```
AT+CDTAM ?
```

```
+CDTAM: 0
```

```
OK
```

4.2 TTS operation, play or stop

```
AT+CTTS=1,"6B228FCE4F7F75288BED97F354  
0862107CFB7EDF"
```

```
OK
```

```
+CTTS:0
```

```
AT+CTTS=2,"hello, 欢迎使用语音合成系统"
```

```
OK
```

```
+CTTS:0
```

```
AT+CTTS=3," 欢迎使用语音合成系统  
","E:/tts.wav"
```

```
OK
```

```
+CTTS:0
```

```
AT+CTTS=4,"6B228FCE4F7F75288BED97F354  
0862107CFB7EDF","E:/tts.wav"
```

OK
+CTTS:0

AT+CTTS=0

OK
+CTTS:0

4.3 Set TTS parameters

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

OK

AT+CTTSPARAM?

+CTTSPARAM: 1,3,0,1,1

OK

SIM7100
Confidential