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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


1.3 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

Overview of AT Commands for TTS

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4. TTS Samples

4.1 TTS play path, local or remote

```plaintext
AT+CDTAM =1
+CDTAM:
OK

AT+CDTAM =0
+CDTAM:
OK

AT+CDTAM ?
+CDTAM: 0
OK
```

4.2 TTS operation, play or stop

```plaintext
AT+CTTS=1,"6B228FCE4F7F75288BED97F3540862107CFB7EDF"

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,"6B228FCE4F7F7528BED97F3540862107CFB7EDF","E:/tts.wav"

OK
+CTTS:0

AT+CTTS=0

OK
+CTTS:0

4.3 TTS parameters, set or get

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

OK

AT+CTTSPARAM?
+CTTSPARAM: 2,3,0,1,1

OK