



SIM7080 Series_SAT_Application Note

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About Document

Document Information

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Revision	Date	Owner	Status / Comments
1.00	Oct 31, 2019	Xiaotao.qin	First Release
1.01	Feb 26,2020	Wenjie.lai	Add product types

Related Documents

[1] SIM7080 Series AT Command Manual V1.01

This document applies to the following products:

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SIM7080G	CAT-M/NB	17.6*15.7 *2.3	N/A
SIM7070G/SIM7070E	CAT-M/NB/EGPRS	24*24*2.4	N/A
SIM7070G-NG	NB/EGPRS	24*24*2.4	N/A
SIM7090G	CAT-M/NB	14.8*12.8*2.0	N/A

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1 Purpose of this document

Based on module AT command manual, this document will introduce SIM Application Toolkit(SAT) application process.

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

2 AT Commands for SAT

Command	Description
AT+STIN?	Get Flash Data Buffer
AT+STGI	Get SAT information
AT+STGR	SAT Respond
AT+STK	STK Switch

For detail information, please refer to "SIM7080 Series_AT Command Manual".

3 Command Example

3.1 Display Text

AT Command	Response	Description
AT+STIN?	+STIN:21 OK	
AT+STGI=21	+STGI:21,0,0,10,"00540065007300740 021" OK	Text display in UCS2.
AT+STGR=21	OK	
	+STIN: 25 (example)	

3.2 Get Inkey

AT Command	Response	Description
AT+STIN?	+STIN:22 OK	
AT+STGI=22	+STGI:22,1,0,12,"0069006E007000750 074003A" OK	Response will indicate the format input information.
AT+STGR=22,"Y"	OK +STIN: 24 (example)	Refer to the response of AT+STGI=22, confirm the input format.

3.3 Get Input

AT Command	Response	Description
AT+STIN?	+STIN:23 OK	
AT+STGI=23	+STGI:23,3,70,1,0,1,12,"0069006E0070 00750074003A" OK	Response will indicate the format and min/max length of the input information.
AT+STGR=23,"597D"	OK +STIN: 24 (example)	Refer to the response of AT+STGI=23, confirm the input format and min/max length.

3.4 Set Up Menu

AT Command	Response	Description
AT+STIN?	+STIN:25 OK	
AT+STGI=25	+STGI:25,0,0,8,"004D0065006E0075",4 +STGI:25,1,12,"004D0065006E0075002 00031" +STGI:25,2,12,"004D0065006E0075002 00032" +STGI:25,3,12,"004D0065006E0075002 00033" +STGI:25,4,12,"004D0065006E0075002	Menu text display as UCS2. The first line is menu title. Others are menu items.

	00034"	
	OK	
AT+STGR=25,1	OK	After a submenu is selected, return +STIN: 24 usually. Then it should display the submenu information.
	+STIN: 24	

3.5 Select Item

AT Command	Response	Description
AT+STIN?	+STIN:24	
	OK	
AT+STGI=24	+STGI:24,0,0,0,0,"00",5 +STGI:24,1,12,"004900740065006D002 00031" +STGI:24,2,12,"004900740065006D002 00032" +STGI:24,3,12,"004900740065006D002 00033" +STGI:24,4,12,"004900740065006D002 00034" +STGI:24,5,12,"004900740065006D002 00035"	Items text display as UCS2. The first line is menu title. Title may be "00", it means no item title. Others are sub-items.
	OK	
AT+STGR=24,1	OK	After selected an item, different SIM/USIM cards will report different +STIN: command.
	+STIN: 23(example)	

3.6 Send Short Message

AT Command	Response	Description
AT+STIN?	+STIN:24	Send short message is a sub-item in items.
	OK	
AT+STGI=24	+STGI:24,0,0,0,0,"00",2 +STGI:24,1,24,"006E006500770020006 D006500730073006100670065003A" +STGI:24,2,10,"00730065006E0064003 A"	Items text display as UCS2.

	OK	
AT+STGR=24,2	OK	After selected the send message item, the short message will be sent, the report +STIN:21.
	+STIN: 21	

3.7 Make a Voice Call

AT Command	Response	Description
AT+STIN?	+STIN:24 OK	Make a voice call is a sub-item in items. Select the specifically item, SAT should make a voice call.
AT+STGI=24	+STGI:24,0,0,0,0,"00",1 +STGI:24,1,20,"006D0061006B0065002 000630061006C006C003A" OK	Items text display as UCS2.
AT+STGR=24,2	OK +STIN: 24 (example) VOICE CALL: BEGIN (URC)	After selected the make call item, AT port will report a URC, indicate the call begin. If want to hang up the call, must execute AT+CHUP.

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