



SIM7080 Series CTBURST_Application Note

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About Document

Document Information

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Revision	Date	Owner	Status / Comments
1.00	Nov 26, 2019	Yingjie.li	First Release
1.01	Feb 26, 2020	Wenjie.lai	Add product types

Related Documents

[1] SIM7080 Series AT Command Manual V1.02

This document applies to the following products:

Name	Type	Size (mm)	Comments
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 CTBURST application process.

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

2 AT Commands for CTBURST

Command	Description
AT+CTBURST	The RF TX Burst Test

2.1 AT+CTBURST The RF TX Burst Test

AT+CTBURST The RF TX Burst Test	
Write Command	Response
AT+CTBURST=<mode>[,<band>,<channel>,<power>[,<slot_num>]]	OK or ERROR
	Parameters
	<mode>
	0 Stop RF TX Burst
	1 Start RF TX Burst
	<band>
	0 GSM 850 Band
	1 GSM 900 Band
	2 GSM DCS 1800 Band
	3 GSM PCS 1900 Band
	101 LTE 1 Band
	102 LTE 2 Band
	103 LTE 3 Band
	104 LTE 4 Band
	105 LTE 5 Band
	108 LTE 8 Band
	112 LTE 12 Band
	113 LTE 13 Band
	118 LTE 18 Band

	<p>119 LTE 19 Band 120 LTE 20 Band 126 LTE 26 Band 128 LTE 28 Band</p> <p><channel> Frequency channel</p> <p>128~251 GSM 850 1~124,975~1023 GSM 900 512~885 GSM DCS 1800 512~810 GSM PCS 1900 18000~18599 LTE 1 18600~19199 LTE 2 19200~19949 LTE 3 19950~20399 LTE 4 20400~20649 LTE 5 21450~21799 LTE 8 23010~23179 LTE 12 23180~23279 LTE 13 23850~23999 LTE 18 24000~24149 LTE 19 24150~24449 LTE 20 26690~27039 LTE 26 27210~27659 LTE 28</p> <p><powerl> Power control level. The power in dBm * 100, the value is different for different band.</p> <p><slot_num> The slot number for GSM burst, this parameter is invalid for WCDMA band and LTE band. 0-7</p>
Parameter Saving Mode	NO_SAVE
Max Response Time	-
Reference	<p>Note:</p> <ul style="list-style-type: none"> ● If <mode>=0, other parameters are not required, it will stop the current starting RF band test, otherwise it return error. ● If <mode>=1, all the other parameters are required. ● If <band> is GSM band, module should support GSM band.

3 CTBURST Sample

AT Command	Response	Description
AT+CFUN=5	OK	Enter FTM mode
AT+CTBURST=1,1,62,33 00,1	OK	Start CTBURST with GSM band.

AT+CTBURST=0	OK	Stop CTBURST
AT+CTBURST=1,105,204 00,2200	OK	Start CTBURST with LTE band.
AT+CTBURST=0	OK	Stop CTBURST
AT+CFUN=1	OK	Exit FTM mode

Note: If you want to change the band, channel or power level, you must disable the burst first, and then change it.

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