

A76XX Series_ CTBURST_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



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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

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www.simcom.com 1/9



About Document

Version History

Revision	Date	Owner	Description
V1.00	2021.10.29	Yulong.zheng	New version
V1.01	2021.03.07	Yulong.zheng	Delete CAT1

Scope

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. This document applies to A1803S Serials, A1603 Series.

www.simcom.com 2 / 9



Contents

Ab	out Document	2
	Version History	2
	Scope	
Со	ntents	3
1	Introduction	3
	1.1 Purpose of the document	4
	1.2 Related documents	4
	1.3 Conventions and abbreviations	4
2	AT Commands for CTBURST	5
	2.1 Overview of AT Commands for CTBURST	5
	2.2 AT+CTBURST The TX/RX Burst Test	5
3	CTBURST Examples	8



1 Introduction

1.1 Purpose of the document

Based on module AT command manual, this document will introduce RF TX/RX application process. Developers could understand and develop application quickly and efficiently based on this document.

1.2 Related documents

[1] A76XX Series_AT Command Manual

1.3 Conventions and abbreviations

In this document, the GSM engines are referred to as following term:

ME (Mobile Equipment);

MS (Mobile Station);

TA (Terminal Adapter);

DCE (Data Communication Equipment) or facsimile DCE (FAX modem, FAX board);

In application, controlling device controls the GSM engine by sending AT Command via its serial interface.

The controlling device at the other end of the serial line is referred to as following term:

TE (Terminal Equipment);

DTE (Data Terminal Equipment) or plainly "the application" which is running on an embedded system;

www.simcom.com 4 / 9



2 AT Commands for CTBURST

2.1 Overview of AT Commands for CTBURST

Command	Description
AT+CTBURST	Set TX/RX Power

2.2 AT+CTBURST The TX/RX Burst Test

AT+CTBURST The RF TX Burst Test		
	Response	
Test Command	+CTBURST =0-2,0-142,1-65535,-5000-3500, 0-5	
AT+CTBURST=?		
	OK	
	Response	
	If mode is 0	
	+CTBURST: TX/RX OFF	
	OK	
	If mode is 1 +CTBURST: TX ON	
Write Command	TOIBURSI. IA ON	
AT+CTBURST= <mode>[,<b< td=""><td>ок</td></b<></mode>	ок	
and>, <channel>,<power>[,</power></channel>	If mode is 2	
<pre><bandwith>]]</bandwith></pre>	For gsm/wcdma	
11	+CTBURST: RX [rssiValue]	
	ок	
	For LTE	
	+CTBURST: RX: [mainRssiValue], [secRssiValue]	
	OK	
Parameter Saving Mode	NO_SAVE	
Max Response Time	-	

www.simcom.com 5 / 9



Reference	-

Defined Values

<mode></mode>	Start/stop TX/RX the burst/waveform
	0 – stop RF TX/RX
	1 – start RF TX
	2 – start RF RX
<band></band>	The band of burst/waveform to be sent
	0 – GSM 850 Band
	1 – GSM 900 Band
	2 - GSM DCS 1800 Band
	3 – GSM PCS 1900 Band
	10 - WCDMA IMT 2000 Band
	11 - WCDMA PCS 1900 Band
	12 - WCDMA 800 Band
	13 – WCDMA 850 Band
	14 – WCDMA 900 Band
	101 – LTE 1 Band
	102 – LTE 2 Band
	103 – LTE 3 Band
	104 – LTE 4 Band
	105 – LTE 5 Band
	106 – LTE 6 Band
	107 – LTE 7 Band
	108 – LTE 8 Band
	109 – LTE 9 Band
	110 – LTE 10 Band
	111 – LTE 11 Band
	112 – LTE 12 Band
	113 – LTE 13 Band
	114 – LTE 14 Band
	117 – LTE 17 Band
	118 – LTE 18 Band
	119 – LTE 19 Band
	120 – LTE 20 Band
	121 – LTE 21 Band
	122 – LTE 22 Band
	123 – LTE 23 Band
	124 – LTE 24 Band
	125 – LTE 25 Band
	126 – LTE 26 Band
	127 – LTE 27 Band
	128 – LTE 28 Band

www.simcom.com 6 / 9



133 – LTE 33 Band 134 – LTE 34 Band 135 – LTE 35 Band 136 – LTE 36 Band 137 – LTE 37 Band 138 – LTE 38 Band 139 – LTE 39 Band 140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band Frequency channel, the range is different according to different band GSM 850: 128-251 GSM 900: 1-124, 975-1023 GSM DCS 1800: 512-885 GSM PCS 1900: 512-886 GSM PCS 1900: 512-880 WCDMA PCS 1900: 9812-9892 WCDMA PCS 1900: 982-9542 WCDMA PCS 1900: 982-9542 WCDMA 800: 4132-4242, 782-862 WCDMA 800: 4132-4242, 782-862 WCDMA 900: 2712-2879 LTE 1: 18000-19199 LTE 3: 19200-19949 LTE 4: 19950-20399 LTE 5: 20400-20649 LTE 6: 20650-20749 LTE 7: 20750-21449 LTE 8: 21450-21799 LTE 9: 21800-22149 LTE 10: 22150-22749 LTE 11: 22750-22149 LTE 11: 22750-22949 LTE 12: 23300-23379 LTE 13: 23180-23379 LTE 14: 23280-23379 LTE 15: 24500-24149 LTE 16: 24550-23999 LTE 17: 247300-23849 LTE 18: 23850-23999 LTE 19: 24000-24449 LTE 20: 24150-2449 LTE 21: 2450-24599 LTE 22: 24600-25699 LTE 22: 24600-25699 LTE 22: 24600-25699 LTE 22: 26690-27039 LTE 25: 26040-26689 LTE 26: 26690-27039 LTE 27: 277040-277209 LTE 28: 27210-27659	,	
134 – LTE 34 Band 135 – LTE 35 Band 136 – LTE 36 Band 137 – LTE 37 Band 138 – LTE 38 Band 139 – LTE 38 Band 139 – LTE 38 Band 140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band 143 – LTE 42 Band 144 – LTE 42 Band 145 – LTE 42 Band 146 – LTE 42 Band 147 – LTE 42 Band 148 – LTE 42 Band 149 – LTE 42 Band 149 – LTE 42 Band 140 – Stand 141 – LTE 41 Band 142 – LTE 42 Band 142 – LTE 42 Band 143 – LTE 41 Band 142 – LTE 42 Band 144 – LTE 42 Band 145 – LTE 41 Band 145 – LTE 41 Band 146 – LTE 41 Band 147 – LTE 41 Band 148 – LTE 41 Band 149 – LTE 41 Band 140 – Stand 140 – LTE 41 Band		
134 – LTE 34 Band 135 – LTE 35 Band 136 – LTE 36 Band 137 – LTE 37 Band 138 – LTE 38 Band 139 – LTE 38 Band 139 – LTE 38 Band 140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band 143 – LTE 42 Band 144 – LTE 42 Band 145 – LTE 42 Band 146 – LTE 42 Band 147 – LTE 42 Band 148 – LTE 42 Band 149 – LTE 42 Band 149 – LTE 42 Band 140 – Stand 141 – LTE 41 Band 142 – LTE 42 Band 142 – LTE 42 Band 143 – LTE 41 Band 142 – LTE 42 Band 144 – LTE 42 Band 145 – LTE 41 Band 145 – LTE 41 Band 146 – LTE 41 Band 147 – LTE 41 Band 148 – LTE 41 Band 149 – LTE 41 Band 140 – Stand 140 – LTE 41 Band		133 – I TF 33 Band
135 – LTE 35 Band 136 – LTE 36 Band 137 – LTE 37 Band 138 – LTE 39 Band 139 – LTE 39 Band 140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band Frequency channel, the range is different according to different band GSM 850: 128–251 GSM 900: 1-124, 975–1023 GSM DCS 1800: 512–885 GSM PCS 1900: 512–810 WCDMA IMT 2000: 9612–9692 WCDMA PCS 1900: 9262–9542 WCDMA 800: 4132–4242, 782–862 WCDMA 800: 4132–4242, 782–862 WCDMA 800: 4132–4242, 782–862 WCDMA 900: 2712–2872 LTE 1: 18000–18599 LTE 2: 18600–19199 LTE 3: 1200–19949 LTE 4: 19950–20399 LTE 5: 20400–20649 LTE 6: 20650–20749 LTE 7: 20750–21449 LTE 8: 21450–21799 LTE 9: 21800–22149 LTE 11: 22750–22249 LTE 11: 22730–23379 LTE 11: 23330–23379 LTE 11: 23330–23379 LTE 11: 23330–23379 LTE 11: 24000–24449 LTE 12: 23410–23419 LTE 12: 23410–23419 LTE 13: 23500–23999 LTE 21: 24450–24449 LTE 22: 24450–24599 LTE 22: 24450–24599 LTE 22: 24450–24599 LTE 22: 24450–24599 LTE 23: 25500–25699 LTE 24: 25700–26039 LTE 25: 26600–26689 LTE 25: 26600–267039 LTE 25: 26600–26689 LTE 25: 26600–26689 LTE 25: 26600–26689 LTE 25: 26600–26689 LTE 25: 26600–27039 LTE 27: 27040–27209		
136 – LTE 36 Band 137 – LTE 37 Band 138 – LTE 38 Band 139 – LTE 39 Band 140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band 414 – LTE 42 Band 42 – LTE 42 Band 43 – LTE 42 Band 442 – LTE 42 Band 45 – LTE 42 Band 46 – LTE 42 Band 47 – LTE 42 Band 48 – LTE 42 Band 48 – LTE 42 Band 48 – LTE 42 Band 49 – LTE 42 Band 49 – LTE 42 Band 40 – LTE 42 Ba		
137 – LTE 37 Band 138 – LTE 39 Band 139 – LTE 40 Band 140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band Frequency channel, the range is different according to different band GSM 850: 128–251 GSM 900: 1-124, 975-1023 GSM DCS 1800: 512-885 GSM PCS 1900: 512-885 GSM PCS 1900: 512-810 WCDMA IMT 2000: 9612-9892 WCDMA PCS 1900: 9622-9892 WCDMA PCS 1900: 9262-9542 WCDMA 800: 4132-4242, 782-862 WCDMA 800: 4132-4242, 782-862 WCDMA 900: 2712-2872 LTE 1: 18000-19899 LTE 2: 18600-19199 LTE 3: 19200-19949 LTE 4: 19950-20399 LTE 5: 20400-20649 LTE 6: 20650-20749 LTE 7: 20750-21449 LTE 9: 21480-22149 LTE 10: 22150-222149 LTE 11: 22750-22949 LTE 11: 22750-2299 LTE 12: 23100-23179 LTE 13: 23180-23279 LTE 14: 23380-23379 LTE 17: 23730-23849 LTE 19: 24400-24149 LTE 10: 22150-22599 LTE 11: 22450-24449 LTE 11: 22500-25399 LTE 12: 224500-255399 LTE 22: 24450-255399 LTE 23: 25500-25699 LTE 24: 25500-26689 LTE 26: 26690-277039 LTE 27: 27040-27209		
138 – LTE 39 Band 139 – LTE 40 Band 140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band 142 – LTE 42 Band 142 – LTE 42 Band 142 – LTE 48 Band 143 – Sequency channel, the range is different according to different band GSM 850: 128-251 GSM 900: 1-124, 975-1023 GSM DCS 1800: 512-885 GSM PCS 1900: 512-885 GSM PCS 1900: 512-810 WCDMA IMT 2000: 9612-9892 WCDMA POS 1900: 9262-9542 WCDMA 800: 4132-4242, 782-862 WCDMA 800: 4132-4242, 782-862 WCDMA 900: 2712-2872 LTE 1: 18000-18599 LTE 2: 18600-19199 LTE 3: 19200-19949 LTE 4: 19950-20399 LTE 5: 20400-20649 LTE 6: 20650-20749 LTE 7: 20750-21449 LTE 8: 21450-21799 LTE 9: 21800-22149 LTE 10: 22150-22749 LTE 11: 22750-22949 LTE 12: 23010-23179 LTE 14: 23280-23379 LTE 14: 23280-23379 LTE 18: 23850-23399 LTE 18: 23850-23999 LTE 19: 24000-24149 LTE 20: 24150-24449 LTE 21: 24450-24599 LTE 22: 24500-25699 LTE 22: 24500-25699 LTE 22: 24500-26699 LTE 23: 25500-25699 LTE 24: 25700-26039 LTE 25: 26040-26689 LTE 26: 26690-277039 LTE 27: 27040-27209		136 – LTE 36 Band
139 – LTE 39 Band 140 − LTE 40 Band 141 – LTE 41 Band 141 – LTE 42 Band 142 – LTE 42 Band Frequency channel, the range is different according to different band GSM 850: 128–251 GSM 900: 1~124, 975~1023 GSM DCS 1800: 512~885 GSM PCS 1900: 512~810 WCDMA IMT 2000: 9612~9892 WCDMA PCS 1900: 9262~9542 WCDMA 800: 4132~4242, 782~862 WCDMA 800: 4132~4242, 782~862 WCDMA 850: 4132~4242, 782~862 WCDMA 900: 2712~2872 LTE 1: 18000~19599 LTE 2: 18600~19199 LTE 3: 19200~19949 LTE 4: 19950~20399 LTE 5: 20400~20649 LTE 6: 20650~20749 LTE 7: 20750~21449 LTE 8: 21450~21799 LTE 9: 21800~23179 LTE 11: 22750~22749 LTE 11: 23310~23179 LTE 12: 23010~23179 LTE 13: 23180~23379 LTE 14: 23280~23379 LTE 15: 23450~2349 LTE 16: 22650~2449 LTE 19: 24000~24149 LTE 22: 24500~2449 LTE 22: 24500~2449 LTE 22: 24500~2449 LTE 22: 24500~25699 LTE 22: 24500~25699 LTE 22: 24600~26689 LTE 26: 26690~27039 LTE 26: 26690~27039 LTE 27: 27040~27209		137 – LTE 37 Band
140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band 142 – LTE 42 Band *Channel> Frequency channel, the range is different according to different band GSM 850: 128-251 GSM 900: 1-124, 975-1023 GSM DCS 1800: 512-885 GSM PCS 1900: 512-885 GSM PCS 1900: 512-885 GSM PCS 1900: 9262-9892 WCDMA PCS 1900: 9262-9542 WCDMA 850: 4132-4242, 782-862 WCDMA 900: 2712-2872 LTE 1: 18000-18599 LTE 2: 18600-19199 LTE 3: 19200-19949 LTE 4: 19950-20399 LTE 5: 20400-20649 LTE 6: 20550-20749 LTE 7: 20750-21449 LTE 8: 21450-22179 LTE 9: 21800-22149 LTE 10: 22150-222749 LTE 11: 22750-22949 LTE 12: 23010-23179 LTE 13: 23180-23279 LTE 14: 23280-23379 LTE 15: 23350-23999 LTE 16: 23850-23999 LTE 22: 24600-25699 LTE 22: 24600-25699 LTE 22: 26600-26699 LTE 26: 26690-27039 LTE 27: 27040-27209		138 – LTE 38 Band
140 – LTE 40 Band 141 – LTE 41 Band 142 – LTE 42 Band 142 – LTE 42 Band *Channel> Frequency channel, the range is different according to different band GSM 850: 128-251 GSM 900: 1-124, 975-1023 GSM DCS 1800: 512-885 GSM PCS 1900: 512-885 GSM PCS 1900: 512-885 GSM PCS 1900: 9262-9892 WCDMA PCS 1900: 9262-9542 WCDMA 850: 4132-4242, 782-862 WCDMA 900: 2712-2872 LTE 1: 18000-18599 LTE 2: 18600-19199 LTE 3: 19200-19949 LTE 4: 19950-20399 LTE 5: 20400-20649 LTE 6: 20550-20749 LTE 7: 20750-21449 LTE 8: 21450-22179 LTE 9: 21800-22149 LTE 10: 22150-222749 LTE 11: 22750-22949 LTE 12: 23010-23179 LTE 13: 23180-23279 LTE 14: 23280-23379 LTE 15: 23350-23999 LTE 16: 23850-23999 LTE 22: 24600-25699 LTE 22: 24600-25699 LTE 22: 26600-26699 LTE 26: 26690-27039 LTE 27: 27040-27209		139 – LTE 39 Band
141 – LTE 41 Band 142 – LTE 42 Band Frequency channel, the range is different according to different band GSM 850: 128-251 GSM 900: 1-124, 975-1023 GSM DCS 1800: 512-885 GSM PCS 1900: 512-810 WCDMA IMT 2000: 9612-9892 WCDMA PCS 1900: 9262-9542 WCDMA 800: 4132-4242, 782-862 WCDMA 850: 4132-4242, 782-862 WCDMA 900: 2712-2872 LTE 1: 18000-18599 LTE 2: 18600-19199 LTE 3: 19200-19949 LTE 4: 19950-20399 LTE 5: 20400-20649 LTE 6: 20650-20749 LTE 7: 20750-21449 LTE 8: 21450-21799 LTE 10: 22150-22749 LTE 11: 22750-22949 LTE 11: 23300-23179 LTE 12: 23301-23179 LTE 13: 23180-23379 LTE 14: 23280-23379 LTE 15: 23450-2449 LTE 16: 22450-24599 LTE 20: 24450-24599 LTE 21: 24450-24599 LTE 22: 24600-25399 LTE 23: 25500-25699 LTE 26: 26690-27039 LTE 27: 27040-27209		140 – I TF 40 Band
Frequency channel, the range is different according to different band GSM 850: 128-251 GSM 900: 1-124, 975-1023 GSM DCS 1800: 512-885 GSM PCS 1900: 512-880 GSM PCS 1900: 512-880 WCDMA IMT 2000: 9612-9892 WCDMA PCS 1900: 9262-9542 WCDMA 800: 4132-4242, 782-862 WCDMA 800: 4132-4242, 782-862 WCDMA 900: 2712-2872 LTE 1: 18000-18599 LTE 2: 18600-19199 LTE 3: 19200-19949 LTE 4: 19950-20399 LTE 5: 20400-20649 LTE 6: 20650-20749 LTE 7: 20750-21449 LTE 8: 21450-21799 LTE 9: 21800-22149 LTE 10: 22150-22249 LTE 11: 22750-22949 LTE 11: 23700-23179 LTE 13: 23180-23279 LTE 14: 23280-23379 LTE 17: 23730-23849 LTE 18: 23850-23999 LTE 19: 24000-24149 LTE 20: 24150-24449 LTE 21: 24450-24599 LTE 22: 24600-25399 LTE 23: 25500-25699 LTE 24: 25700-26689 LTE 25: 26400-26689 LTE 27: 27040-27209 LTE 27: 27040-27209		
GSM 850: 128-251 GSM 900: 1~124, 975~1023 GSM DCS 1800: 512~885 GSM PCS 1900: 512~885 GSM PCS 1900: 512~885 WCDMA IMT 2000: 9612~9892 WCDMA PCS 1900: 9262~9542 WCDMA 800: 4132~4242, 782~862 WCDMA 800: 4132~4242, 782~862 WCDMA 800: 2712~2872 LTE 1: 18000~18599 LTE 2: 18600~19199 LTE 3: 19200~19949 LTE 4: 19950~20399 LTE 5: 20400~20649 LTE 6: 20650~20749 LTE 7: 20750~21449 LTE 8: 21450~21799 LTE 9: 21800~22149 LTE 10: 22150~22749 LTE 11: 22750~22949 LTE 12: 23010~23179 LTE 13: 23180~23279 LTE 14: 23280~23379 LTE 17: 23730~23849 LTE 17: 23730~23849 LTE 19: 24000~24149 LTE 19: 24000~24149 LTE 20: 24150~24599 LTE 22: 24600~26399 LTE 22: 24600~26399 LTE 23: 25500~25699 LTE 24: 25700~25699 LTE 25: 26040~26689 LTE 26: 26690~27039 LTE 27: 27040~27209		
GSM 900: 1~124, 975~1023 GSM DCS 1800: 512~885 GSM PCS 1900: 512~810 WCDMA IMT 2000: 9612~9892 WCDMA PCS 1900: 9262~9542 WCDMA 800: 4132~4242, 782~862 WCDMA 850: 4132~4242, 782~862 WCDMA 900: 2712~2872 LTE 1: 18000~18599 LTE 2: 18600~19199 LTE 3: 19200~19949 LTE 4: 19950~20399 LTE 5: 20400~20649 LTE 6: 20450~2149 LTE 7: 20750~21449 LTE 8: 21450~21799 LTE 11: 22750~22949 LTE 12: 23010~23179 LTE 13: 23180~23279 LTE 14: 23280~23379 LTE 15: 20400~24149 LTE 16: 22450~2449 LTE 17: 22750~2449 LTE 12: 23010~23179 LTE 12: 2310~23179 LTE 12: 2310~23179 LTE 12: 23500~2379 LTE 12: 2450~2449 LTE 12: 23500~23199 LTE 12: 24500~24149 LTE 12: 23500~23199 LTE 13: 252500~25699 LTE 24: 25500~25699 LTE 24: 25700~26039 LTE 25: 26660~27039 LTE 26: 266690~27039 LTE 27: 27040~27209	<channel></channel>	Frequency channel, the range is different according to different band
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GSM PCS 1900: 512~810 WCDMA IMT 2000: 9612~9892 WCDMA PCS 1900: 9262~9542 WCDMA 800: 4132~4242, 782~862 WCDMA 850: 4132~4242, 782~862 WCDMA 900: 2712~2872 LTE 1: 18000~18599 LTE 2: 18600~19199 LTE 3: 19200~19949 LTE 4: 19950~20399 LTE 5: 20400~20649 LTE 6: 20650~20749 LTE 7: 20750~21449 LTE 8: 21450~21799 LTE 10: 22150~22749 LTE 11: 22750~22949 LTE 12: 23010~23179 LTE 13: 23180~23279 LTE 14: 23280~23379 LTE 15: 23850~23999 LTE 15: 22450~24449 LTE 10: 22150~25499 LTE 11: 22750~25999 LTE 22: 24600~26399 LTE 23: 23500~23699 LTE 23: 23500~25699 LTE 24: 25700~26039 LTE 25: 266040~26689 LTE 26: 266690~27039 LTE 27: 27040~27209		GSM 900: 1~124, 975~1023
GSM PCS 1900: 512~810 WCDMA IMT 2000: 9612~9892 WCDMA PCS 1900: 9262~9542 WCDMA 800: 4132~4242, 782~862 WCDMA 850: 4132~4242, 782~862 WCDMA 900: 2712~2872 LTE 1: 18000~18599 LTE 2: 18600~19199 LTE 3: 19200~19949 LTE 4: 19950~20399 LTE 5: 20400~20649 LTE 6: 20650~20749 LTE 7: 20750~21449 LTE 8: 21450~21799 LTE 10: 22150~22749 LTE 11: 22750~22949 LTE 12: 23010~23179 LTE 13: 23180~23279 LTE 14: 23280~23379 LTE 15: 23850~23999 LTE 15: 22450~24449 LTE 10: 22150~25499 LTE 11: 22750~25999 LTE 22: 24600~26399 LTE 23: 23500~23699 LTE 23: 23500~25699 LTE 24: 25700~26039 LTE 25: 266040~26689 LTE 26: 266690~27039 LTE 27: 27040~27209		GSM DCS 1800: 512~885
WCDMA IMT 2000: 9612~9892 WCDMA PCS 1900: 9262~9542 WCDMA 800: 4132~4242, 782~862 WCDMA 800: 4132~4242, 782~862 WCDMA 900: 2712~2872 LTE 1: 18000~18599 LTE 2: 18600~19199 LTE 3: 19200~19949 LTE 4: 19950~20399 LTE 5: 20400~20649 LTE 6: 20650~20749 LTE 7: 20750~21449 LTE 8: 21450~21799 LTE 10: 22150~22749 LTE 11: 22750~22949 LTE 12: 23010~23179 LTE 13: 23180~23379 LTE 14: 23280~23379 LTE 14: 23280~23399 LTE 17: 23730~23849 LTE 19: 24000~24149 LTE 20: 24150~2449 LTE 20: 24150~24599 LTE 21: 2450~24599 LTE 22: 24500~25699 LTE 22: 25000~25699 LTE 24: 25700~26639 LTE 25: 26040~26689 LTE 26: 26690~27039 LTE 26: 26690~27039 LTE 26: 26690~27039 LTE 26: 26690~27039 LTE 27: 27040~27209		
WCDMA PCS 1900: 9262–9542 WCDMA 800: 4132~4242, 782~862 WCDMA 850: 4132~4242, 782~862 WCDMA 900: 2712~2872 LTE 1: 18000~18599 LTE 2: 18600~19199 LTE 3: 19200~19949 LTE 4: 19950~20399 LTE 5: 20400~20649 LTE 6: 20650~20749 LTE 7: 20750~21449 LTE 8: 21450~21799 LTE 9: 21800~22149 LTE 11: 22750~2249 LTE 11: 22750~2249 LTE 12: 23010~23179 LTE 13: 23180~23279 LTE 14: 23280~23379 LTE 15: 24500~2449 LTE 16: 2450~24599 LTE 22: 24600~25399 LTE 23: 24500~25699 LTE 24: 25700~26689 LTE 25: 26040~26689 LTE 26: 26690~27039 LTE 26: 26690~27039 LTE 26: 26690~27039 LTE 27: 27040~27209		
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LTE 27: 27040~27209		
LTE 28: 27210~27659		
		LTE 28: 27210~27659

www.simcom.com 7 / 9



	LTE 33: 36000~36199
	LTE 34: 36200~36349
	LTE 35: 36350~36949
	LTE 36: 36950~37549
	LTE 37: 37550~37749
	LTE 38: 37750~38249
	LTE 39: 38250~38649
	LTE 40: 38650~39649
	LTE 41: 39650~41589
	LTE 42: 41590~43589
<power></power> For LTE:The power between 0~2000apc, the value is of different band For GSM: The power means afcDac, the value between suggested range is (200-700) (too bigger will cause Tx equipment could not detect it)	
<bar> <br< td=""><td>Rx band width:0~5.if it is WCDMA,this value must be set to 0. 0 1.4M 1 3M 2 5M 3 10M 4 15M 5 20M</td></br<></bar>	Rx band width:0~5.if it is WCDMA,this value must be set to 0. 0 1.4M 1 3M 2 5M 3 10M 4 15M 5 20M
< rssiValue >	The Rx Power for GSM/WCDMA
< mainRssiValue >	The Main ant Rx Power for LTE
< secRssiValue >	The Sec ant Rx Power for LTE

3 CTBURST Examples

AT+CFUN=0	//Minimum functionality. You can also set AT+CFUN=4
OK	
AT+CTBURST=0	//Close TX/RX CTBURST
+CTBURST: TX/RX OFF	
OK	
AT+CTBURST=1,101,18300,2000	//Start RF TX Power of LTE BAND1 the arfcn is
ATTURET TV ON	18300 the power is 2000apc
+CTBURST: TX ON	
ОК	
AT+CTBURST=2,101,18300,2000,5	//Start RF RX Power of LTE BAND1 the arfcn is
ATTO I BORST - 2, 101, 10300, 2000, 5	18300,mainrssi is -60 secrssi is 0
	•

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+CTBURST: RX: -60, 0

OK

AT+CTBURST=1,1,124,200 //Start RF TX Power of GSM900 the arfcn is 124

the power is 200afc

+CTBURST: TX ON

OK

AT+CTBURST=2,1,124,200,0

+CTBURST: RX: -60 //Start RF RX Power of GSM900 the arfcn is 124

OK

AT+CTBURST=1,10,9650,2000

+CTBURST: TX ON //Start RF TX Power of WCDMA IMT 2000 the

arfcn is 9650 the power is 2000apc

OK

AT+CTBURST=2,10,9650,2000,0

+CTBURST: RX: -60 //Start RF RX Power of WCDMA IMT 2000the

arfcn is 9650

OK

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