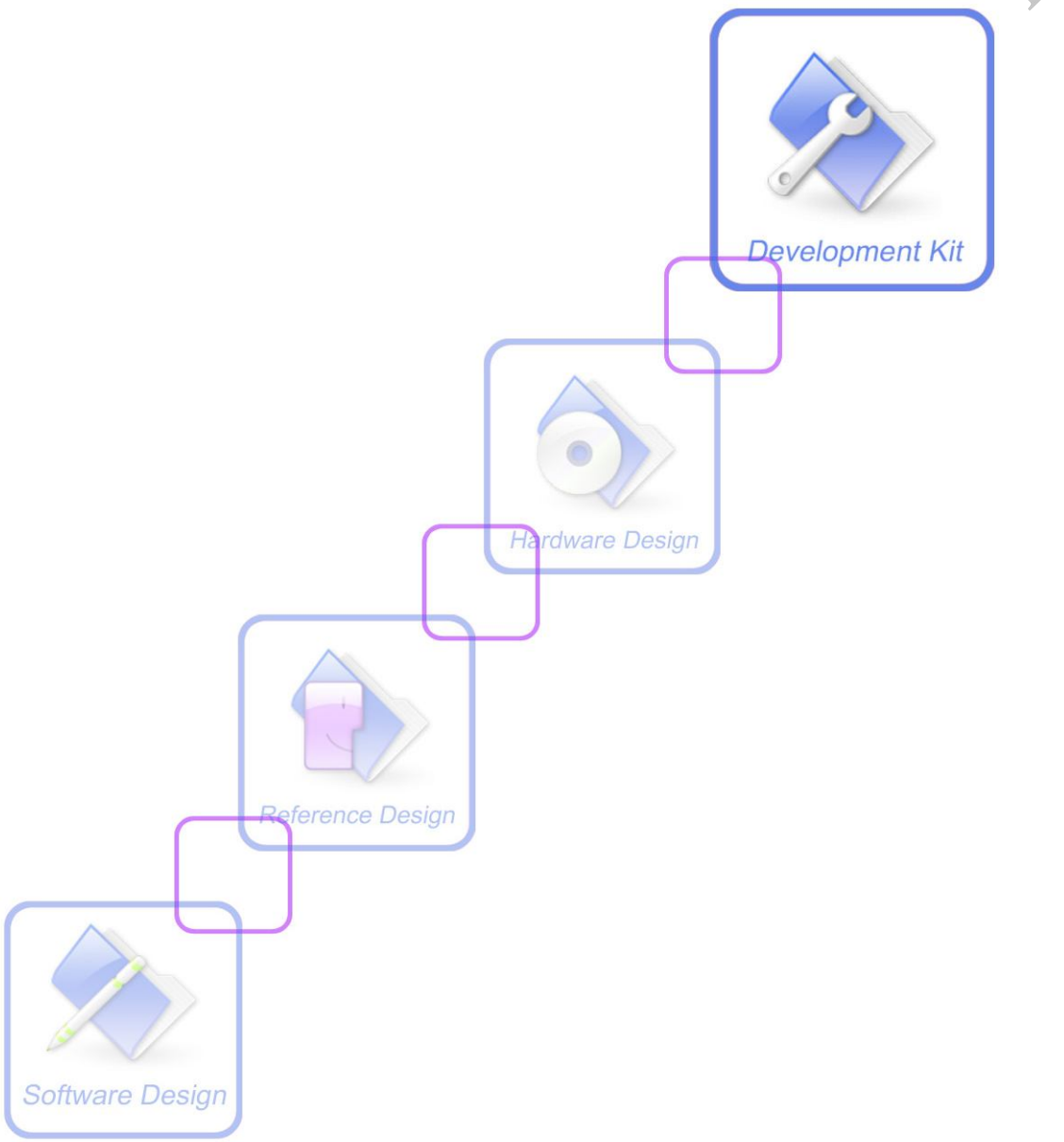
SIM7100_SIM7500_SIM7600 CTBURST Application Note



Document Title:	SIM7100_SIM7500_SIM7600_CTBURST_Application Note
Version:	1.00
Date:	2018-03-23
Status:	Release
Document Control ID:	SIM7100_SIM7500_SIM7600_CTBURST_Application Note_V1.00

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

Version History

Version	Chapter	Comments	Author
V0.01	New Version		
V0.02	Chapter 2	Modify **Syntax** Responses, detete < power_rfo>, Example	
V1.00	Scope	Modify 1.1 Overview,add product type	

Contents

1. Introduction

1.1 Overview

This document will depict the usage of AT+CTBURST Transmit Continuous Burst/Waveform by SIM7100/SIM7500/SIM7600 series. User can get useful information about the SIM7100/SIM7500/SIM7600 function quickly through this document.

1.2 References

No.

1.3 Terms and Abbreviations

For the purposes of the present document, the following abbreviations apply:

- AT ATtention; the two-character abbreviation is used to start a command line to be sent from TE/DTE to TA/DCE

2. AT+CTBURST Transmit Continuous Burst/Waveform

Description

This command is used to transmit or stop continuous burst/waveform for production verification test at manufacturer.

SIM PIN	References
NO	Vendor

Syntax

Write Command	Responses
AT+CTBURST=<mode>[,<band>,<channel>,<power>[,<slot_num>]]	ALLUP: ON ALLUP: OFF OK OK
	ERROR

Defined values

<mode>

Start/stop sending the burst/waveform

0 – stop

1 – start

<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

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

<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: 512~810

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 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 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: 25700~26039

LTE 25: 26040~26689

LTE 26: 26690~27039

LTE 27: 27040~27209

LTE 28: 27210~27659

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>

The power in dBm * 100, the value is different for different band.

<slot_num>

The slot number for GSM burst, this parameter is invalid for WCDMA band and LTE

Examples

```
AT+CFUN=5
OK
AT+CTBURST=1,10,9750,2000
ALLUP: ON

OK

AT+CTBURST=0
ALLUP: OFF

OK
```

Contact us

Shanghai SIMCom Wireless Solutions Ltd.
Add: Building A, SIM Technology Building, No.633, Jinzhong Road, Changning District 200335
Tel: +86 21 3252 3300
Fax: +86 21 3252 3301
URL: http:/www.sim.com/wm/