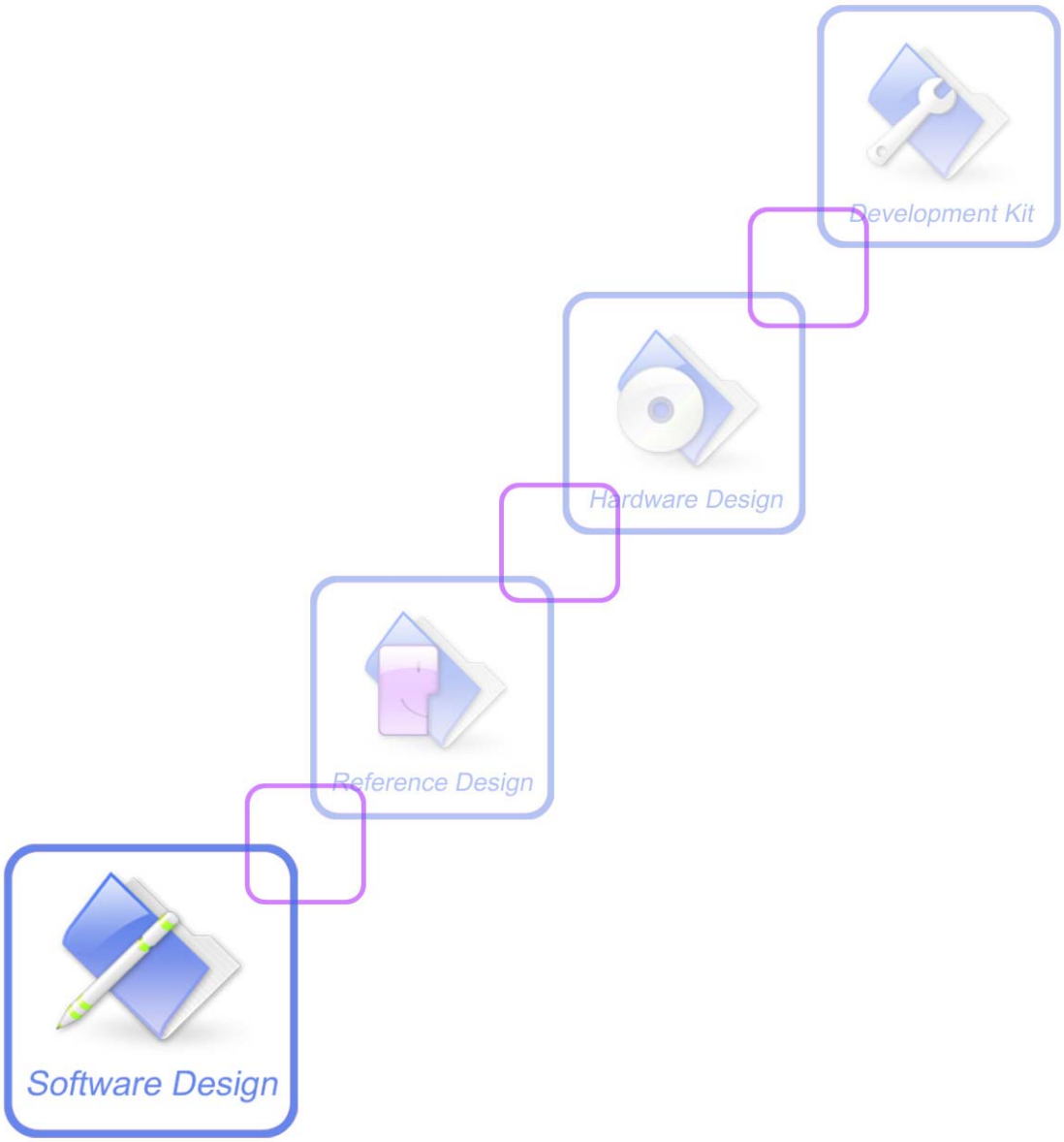
SIM5360 SIM5320 ATC Comparison



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Version History

Date	Version	Chapter	Comments
2014-1-6	V0.01	New Version	
2014-1-24	V0.02	Modify Version	1、In 3.1 AT*CNTI command,sim5320 does not support HSUPA，delete the command 2、 It does not need 5.7 AT+CUSBMSS,delete the command 3、Fota ： It has no difference with sim5360 and sim5320,delete the difference of the function describtion 4、In 10.1.1 AT+CFTPSPUTFILE command,add a describtion to mark No.2 and No.3 the two issues are not support 5、7.1 AT&Fcommand:In default table sim5360 is should not different with sim5320,modify the difference

Contents

1 Introduction

1.1 Scope

The document describes the AT Command Comparison between the SIMCom Module SIM5360 and SIM5320.

Prior to using the Module, please read this document and the Version History to know the difference from the previous document.

1.2 References

The present document is based on the following standards:

[1] ETSI GSM 01.04: Abbreviations and acronyms.

[2] 3GPP TS 27.005: Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE – DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS).

[3] 3GPP TS 27.007: AT command set for User Equipment (UE).

[4] WAP-224-WTP-20010710-a

[5] WAP-230-WSP-20010705-a

[6] WAP-209-MMSEncapsulation-20010601-a

[7] 3GPP2 C.R1001-C, Administration of Parameter Value Assignments for cdma2000 Wideband Spread Spectrum Standards, January 2002

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
- CSD Circuit Switched Data
- DCE Data Communication Equipment; Data Circuit terminating Equipment
- DCS Digital Cellular Network
- DTE Data Terminal Equipment
- DTMF Dual Tone Multi–Frequency
- EDGE Enhanced Data GSM Environment
- EGPRS Enhanced General Packet Radio Service
- GPIO General–Purpose Input/Output
- GPRS General Packet Radio Service
- GSM Global System for Mobile communications
- HSDPA High Speed Downlink Packet Access
- HSUPA High Speed Uplink Packet Access
- I2C Inter–Integrated Circuit

- IMEI International Mobile station Equipment Identity
- IMSI International Mobile Subscriber Identity
- ME Mobile Equipment
- MO Mobile–Originated
- MS Mobile Station
- MT Mobile–Terminated; Mobile Termination
- PCS Personal Communication System
- PDU Protocol Data Unit
- PIN Personal Identification Number
- PUK Personal Unlock Key
- SIM Subscriber Identity Module
- SMS Short Message Service
- SMS–SC Short Message Service – Service Center
- TA Terminal Adaptor; e.g. a data card (equal to DCE)
- TE Terminal Equipment; e.g. a computer (equal to DTE)
- UE User Equipment
- UMTS Universal Mobile Telecommunications System
- USIM Universal Subscriber Identity Module
- WCDMA Wideband Code Division Multiple Access
- FTP File Transfer Protocol
- HTTP Hyper Text Transfer Protocol
- POP3 Post Office Protocol Version 3
- POP3 client An client that can receive e-mail from POP3 server over TCP session
- RTC Real Time Clock
- SMTP Simple Mail Transfer Protocol
- SMTP client An client that can transfer text-based e-mail to SMTP server over TCP session
- URC Unsolicited Result Code
- MMS Multimedia message system

1.4 Definitions and conventions

1. For the purposes of the present document, the following syntactical definitions apply:

<CR>	Carriage return character.
<LF>	Linefeed character.
<…>	Name enclosed in angle brackets is a syntactical element. Brackets themselves do not appear in the command line.
[…]	Optional subparameter of AT command or an optional part of TA information response is enclosed in square brackets. Brackets themselves do not appear in the command line. If subparameter is not given, its value equals to its previous value or the recommended default value.
underline	Underlined defined subparameter value is the recommended default setting or factory setting.

2. Document conventions:

- Display the examples of AT commands with *Italic* format.
- Not display *blank-line* between command line and responses or inside the responses.
- Generally, the characters <CR> and <LF> are intentionally omitted throughout this document.
- If command response is ERROR, not list the ERROR response inside command syntax.

NOTE AT commands and responses in figures may be not following above conventions.

3. Special marks for commands or parameters:

SIM PIN – Is the command PIN protected?

YES – AT command can be used only when SIM PIN is READY.

NO – AT command can be used when SIM card is absent or SIM PIN validation is pending.

References – Where is the derivation of command?

3GPP TS 27.007 – 3GPP Technical Specification 127 007.

V.25ter – ITU–T Recommendation V.25ter.

Vendor – The command is supported by SIMCom.

2 Call Control Commands and Methods

2.1 AT+CSDVC Switch voice channel device

SIM5360	SIM5320
AT+CSDVC=<dev> OK Defined values: <dev>: 1 – handset 3 – speaker phone	AT+CSDVC=<dev>[,<save>] OK Defined values: <dev>: 1 – handset 3 – speaker phone 4 – PCM interface <save>: 0 – temporary voice device setting, after reboot it will be resumed. 1 – permanent voice device setting.
Difference	Parameter <dev> is different, SIM5360 only support external PCM interface currently and not support Parameter <save>.

2.2 AT+CPCMREG Control PCM data transfer by diagnostics port

SIM5360	SIM5320
Not support this command	AT+CPCMREG=? +CPCMREG: (list of supported <n>s) OK
Difference	SIM5360 does not support this command now.

3 Network Service Related Commands

3.1 AT*CNTI Query Network Mode

SIM5360	SIM5320
AT*CNTI? *CNTI:<CNTI_option>, <network_mode> OK Defined values: <network_mode>: NONE GSM GPRS EDGE UMTS HSDPA HSUPA HSPA	AT*CNTI? *CNTI:<CNTI_option>, <network_mode> OK Defined values: <network_mode>: NONE GSM GPRS EDGE UMTS HSDPA
AT*CNTI =<CNTI_option> *CNTI:<CNTI_option>, <network_mode>s OK ERROR Defined values: <network_mode>: NONE GSM GPRS EDGE UMTS HSDPA HSUPA HSPA	AT*CNTI =<CNTI_option> *CNTI:<CNTI_option>, <network_mode>s OK ERROR Defined values: <network_mode>: NONE GSM GPRS EDGE UMTS HSDPA
Difference	Parameter < network_mode > is different, SIM5360 supports HSPA currently. SIM5320 does not support HSUPA.

4 Mobile Equipment Control and Status Commands

4.1 AT+CFUN Set phone functionality

SIM5360	SIM5320
Difference	SIM5360 reset from online mode to offline mode, the SIM card will be powered off if existed; If SIM5360 module reset from offline mode to online mode, the SIM card will be powered on if existed; And SIM card status will be reported as +CPIN: <code>; SIM5320 does not power on/off the SIM card correspondingly

4.2 AT+CSIMLOCK Request and change password

SIM5360	SIM5320
Not support this command	AT+CSIMLOCK=<facility>[,<old password>,<new password>] OK *If error:* +CME ERROR: <err>
Difference	SIM5360 does not support this command.

4.3 AT+DSWITCH Change diagnostics port mode

SIM5360	SIM5320
Not support this command	AT+DSWITCH =<mode> OK *If error:* ERROR
Difference	SIM5360 does not support this command.

4.4 AT+CDELTA Write delta package to FOTA partition

SIM5360	SIM5320
Not support this command	AT+CDELTA=<delta_package> +CDELTA: 1 OK *If error:* +CDELTA: 0,<err_code> OK
Difference	SIM5360 does not support this command.

5 Hardware Related Commands

5.1 AT+CMICAMP1 Set value of micamp1

SIM5360	SIM5320
Not support this command	AT+CMICAMP1= <amp_val> OK *If error:* ERROR
Difference	SIM5360 does not support this command.

5.2 AT+CTXGAIN Set TX Gain

SIM5360	SIM5320
Not support this command	AT+CTXGAIN= <tx_gain> OK *If error:* ERROR
Difference	SIM5360 does not support this command.

5.3 AT+CRXGAIN Set RX Gain

SIM5360	SIM5320
Not support this command	AT+CRXGAIN= <rx_gain> OK *If error:* ERROR
Difference	SIM5360 does not support this command.

5.4 AT+SIDET Digital attenuation of sidetone

SIM5360	SIM5320
Not support this command	AT+SIDET= <st> OK *If error:* ERROR
Difference	SIM5360 does not support this command.

5.5 AT+CECSET Adjust the effect for the given echo cancellation mode

SIM5360	SIM5320
AT+CECSET= <index>,<value> OK *If error:* ERROR <index>: 0 – 48, EC has 49 parameters; this is the index of the selected parameter.	AT+CECSET= <index>,<value> OK *If error:* ERROR <index>: 0 – 37, EC has 38 parameters; this is the index of the selected parameter.
Difference	The number of echo cancellation parameter in SIM5360 is different from SIM5320.

5.6 AT+CGFUNC enable/disable the function for the special GPIO

SIM5360	SIM5320
AT+CGFUNC =< function >,<switch> <function>range: 1,2,3,4,7,9,10,11,12,13,14,17,18,19,20	AT+CGFUNC =< function >,<switch> <function>range: 1,2,3,4,7,9,10,11,12,13,14,17,18
Difference	SIM5360 add two functions. One is switch the SPI and GPIO, the other is switch the I2C and GPIO.

5.7 AT+CUSBSPD Switch USB high or full speed

SIM5360	SIM5320
AT+CUSBSPD=? *+CUSBSPD: (0-1)* *OK*	AT+CUSBSPD=? *+CUSBSPD: (0-1)* *OK*
Difference	SIM5360 changes default value from full speed to high speed

5.8 AT+CMTE Whether Shut Down the Module For High and Low Temperature

SIM5360	SIM5320
AT+CMTE=<value> OK *If error:*	Not support this command

ERROR	
Difference	SIM5360 add this command.

6 Phonebook Related Commands

6.1 AT+CPBS Select phonebook memory storage

SIM5360	SIM5320
AT+CPBS=? *+CPBS:* *("SM","DC","FD","LD","MC","ME","RC","EN","ON","SN")* *OK*	*AT+CPBS=?* *+CPBS:* *("SM","DC","FD","LD","MC","ME","RC","EN","ON","SN")* *OK*
Difference	SIM5360 "DC" ME dialed calls list Capacity: max. 20 entries AT+CPBW command is not applicable to this storage. "MC" ME missed (unanswered received) calls list Capacity: max. 20 entries AT+CPBW command is not applicable to this storage. "RC" ME received calls list Capacity: max. 20 entries "EN" Emergency numbers Capacity: depending on SIM card SIM5320 "DC" ME dialed calls list Capacity: max. 10 entries AT+CPBW command is not applicable to this storage. "MC" ME missed (unanswered received) calls list Capacity: max. 10 entries AT+CPBW command is not applicable to this storage. "RC" ME received calls list Capacity: max. 10 entries "EN" Emergency numbers Capacity: max. 50 entries

7 Commands for Packet Domain

7.1 AT+CGDCONT Define PDP context

SIM5360	SIM5320
AT+CGDCONT=<cid>[,<PDP_type>[,<APN>[,<PDP_addr>[,<d_comp>[,<h_comp>]]]]] OK *If error:* ERROR	AT+CGDCONT=<cid>[,<PDP_type>[,<APN>[,<PDP_addr>[,<d_comp>[,<h_comp>]]]]] OK *If error:* ERROR
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6 IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6

7.2 AT+CGTFT Traffic Flow Template

SIM5360	SIM5320
AT+CGTFT=? +CGTFT: <PDP_type>,(list of supported <packet filter identifier>s),(list of supported <evaluation precedence index>s),(list of supported <source address and subnet mask>s),(list of supported <protocol number (ipv4) / next header (ipv6)>s),(list of supported <destination port range>s),(list of supported <source port range>s),(list of supported <ipsec security parameter index (spi)>s),(list of supported <type of service (tos) (ipv4) and mask / traffic class (ipv6) and mask>s),(list of	AT+CGTFT=? +CGTFT: <PDP_type>,(list of supported <packet filter identifier>s),(list of supported <evaluation precedence index>s),(list of supported <source address and subnet mask>s),(list of supported <protocol number (ipv4) / next header (ipv6)>s),(list of supported <destination port range>s),(list of supported <source port range>s),(list of supported <ipsec security parameter index (spi)>s),(list of supported <type of service (tos) (ipv4) and mask / traffic class (ipv6) and mask>s),(list of

supported <flow label (ipv6)>s),(list of supported <direction>s) [<CR><LF>+CGTFT: <PDP_type>,(list of supported <packet filter identifier>s),(list of supported <evaluation precedence index>s),(list of supported <source address and subnet mask>s),(list of supported <protocol number (ipv4) / next header (ipv6)>s),(list of supported <destination port range>s),(list of supported <source port range>s),(list of supported <ipsec security parameter index (spi)>s),(list of supported <type of service (tos) (ipv4) and mask / traffic class (ipv6) and mask>s),(list of supported <flow label (ipv6)>s),(list of supported <direction>s) [...]] OK *OK*	supported <flow label (ipv6)>s),(list of supported <direction>s) [<CR><LF>+CGTFT: <PDP_type>,(list of supported <packet filter identifier>s),(list of supported <evaluation precedence index>s),(list of supported <source address and subnet mask>s),(list of supported <protocol number (ipv4) / next header (ipv6)>s),(list of supported <destination port range>s),(list of supported <source port range>s),(list of supported <ipsec security parameter index (spi)>s),(list of supported <type of service (tos) (ipv4) and mask / traffic class (ipv6) and mask>s),(list of supported <flow label (ipv6)>s),(list of supported <direction>s) [...]] OK
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6 IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6

7.3 AT+CGQREQ Quality of service profile (requested)

SIM5360	SIM5320
AT+CGQREQ=? +CGQREQ: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) [<CR><LF> +CGQREQ: <PDP_type>, (list of	AT+CGQREQ=? +CGQREQ: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) [<CR><LF> +CGQREQ: <PDP_type>, (list of

supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) […]] OK *If error:* ERROR	supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) […]] OK *If error:* ERROR
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6 IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6

7.4 AT+CGEQREQ 3G quality of service profile (requested)

SIM5360	SIM5320
AT+CGEQREQ=? +CGEQREQ: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) OK	AT+CGEQREQ=? +CGEQREQ: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) OK
Difference	SIM5360

	<PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6 IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6 .

7.5 AT+CGQMIN Quality of service profile (minimum acceptable)

SIM5360	SIM5320
AT+CGQMIN=? +CGEQMIN: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) OK	AT+CGQMIN=? +CGQMIN: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) [<CR><LF> +CGQMIN: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s)[…]] OK *If error:* ERROR
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6 IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol.

	IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6

7.6 AT+CGEQMIN 3G quality of service profile (minimum acceptable)

SIM5360	SIM5320
AT+CGEQMIN=? +CGEQMIN: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) OK	AT+CGEQMIN=? +CGEQMIN: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) OK
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6 IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6

8 TCP/IP Related Commands

8.1 AT+CGSOCKCONT Define socket PDP context

SIM5360	SIM5320
AT+CGSOCKCONT=<cid>[,<PDP_type>[,<APN>[,<PDP_addr>[,<d_comp>[,<h_comp>]]]]] OK *If error:* ERROR	AT+CGSOCKCONT=<cid>[,<PDP_type>[,<APN>[,<PDP_addr>[,<d_comp>[,<h_comp>]]]]] OK *If error:* ERROR
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved) IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved)

8.2 AT+CGSOCKQREQ Quality of service profile (requested)

SIM5360	SIM5320
AT+CGSOCKQREQ=? +CGSOCKQREQ: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) [<CR><LF> +CGSOCKQREQ: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) […]]	AT+CGSOCKQREQ=? +CGSOCKQREQ: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) [<CR><LF> +CGSOCKQREQ: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) […]]

OK *If error:* ERROR	OK *If error:* ERROR
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved) IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved)

8.3 AT+CGSOCKEQREQ 3G quality of service profile (requested)

SIM5360	SIM5320
AT+CGSOCKEQREQ=? +CGSOCKEQREQ: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) [<CR><LF> +CGSOCKEQREQ: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported	AT+CGSOCKEQREQ=? +CGSOCKEQREQ: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) [<CR><LF> +CGSOCKEQREQ: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported

<Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) […]] OK	<Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) […]] OK
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved) IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved)

8.4 AT+CGSOCKQMIN Quality of serviceprofile (minimum acceptable)

SIM5360	SIM5320
AT+CGSOCKQMIN=? +CGSOCKQMIN: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) [<CR><LF> +CGSOCKQMIN: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s)[…]] OK *If error:* ERROR	AT+CGSOCKQMIN=? +CGSOCKQMIN: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s) [<CR><LF> +CGSOCKQMIN: <PDP_type>, (list of supported <precedence>s), (list of supported <delay>s), (list of supported <reliability>s) , (list of supported <peak>s), (list of supported <mean>s)[…]] OK *If error:* ERROR
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the

	type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved) IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved)

8.5 AT+CGSOCKEQMIN 3G quality of service profile (minimum acceptable)

SIM5360	SIM5320
AT+CGSOCKEQMIN=? +CGSOCKEQMIN: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) [<CR><LF> +CGSOCKEQMIN: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of	AT+CGSOCKEQMIN=? +CGSOCKEQMIN: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) [<CR><LF> +CGSOCKEQMIN: <PDP_type>,(list of supported <Traffic class>s),(list of supported <Maximum bitrate UL>s),(list of supported <Maxim um bitrate DL>s),(list of supported <Guaranteed bitrate UL>s,(list of supported <Guaranteed bitrate DL>s),(list of supported <Deliv ery order>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual bit error Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of

Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) […]] OK	Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) […]] OK
Difference	SIM5360 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved) IPV4V6 Dual PDN Stack SIM5320 <PDP_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IP Internet Protocol PPP Point to Point Protocol IPV6 Internet Protocol Version 6(reserved)

10 Internet Service Command

10.1 Secure File Transfer Protocol Service

10.1.1AT+CFTPSPUTFILE Put a file in module EFS to FTPS server

SIM5360	SIM5320
AT+CFTPSPUTFILE= “<filepath>”,<dir>[,<rest_size>] OK + CFTPSPUTFILE: 0 *If list error:* + CFTPSPUTFILE: <err> ERROR *If other error:* ERROR	AT+ CFTPSPUTFILE =“<filepath>”,<dir> OK + CFTPSPUTFILE: 0 *If list error:* + CFTPSPUTFILE: <err> ERROR *If other error:* ERROR
Difference	SIM5360 <dir> The directory that contains the file to be uploaded: 0 – current directory [refer to AT+FSCD] 1 – “*C:/Picture*” directory 2 – “*C:/Video*” directory Note:Platform does not support 3 – “*C:/VideoCall*” directory Note:Platform does not support 4 – “*D:/Picture*” directory 5 – “*D:/Video*” directory 6 – “*D:/VideoCall*” directory 7 – “C:/Audio” directory 8 – “D:/Audio” directory <rest_size> The value for FTP “REST” command which is used for broken transfer when transferring failed last time. It’s range is 0 to 2147483647. SIM5320 <dir> The directory that contains the file to be uploaded, refer to AT+FSCD.

10.1.2 AT+CFTPSGET Get a file from FTPS server to serial port

SIM5360	SIM5320
AT+CFTPSGET= “<filepath>” [,<rest_size>] OK +CFTPSGET: DATA,<len> … +CFTPSGET: DATA,	AT+CFTPSGET= “<filepath>”[,<rest_size>[,<using_cache>]] ***If the <using_cache> is 0 (default):*** OK +CFTPSGET: DATA,<len> …

<len> … … +CFTPSGET: 0 *If list error:* + CFTPSGET: <err> ERROR *If other error:* ERROR	+CFTPSGET: DATA, <len> … … +CFTPSGET: 0 ***If the <using_cache> is 1:*** OK +CFTPS: RECV EVENT AT+CFTPSCACHERD? +CFTPSCACHERD: 102400 OK //output cached data now: AT+CFTPSCACHERD +CFTPSGET: DATA,<len> … OK ..... +CFTPSGET: 0 *If list error:* + CFTPSGET: <err> ERROR *If other error:* ERROR
Difference	SIM5360 SIM5320 <using_cache> 0 – Do not use cache 1 – Use cache(Data will be output using AT+CFTPSCACHERD command)

11 GPS Related Command

11.1 AT+CGPSINFO Get GPS fixed position information

SIM5360	SIM5320
AT+CGPSINFO=<time> OK +CGPSINFO: [<lat>],[<N/S>],[<log>],[<E/W>],[<date>],[<UTC time>],[<alt>],[<speed>],[<course>] ……	AT+CGPSINFO=<time> OK +CGPSINFO: [<lat>],[<N/S>],[<log>],[<E/W>],[<date>],[<UTC time>],[<alt>],[<speed>],[<course>] AmpI/AmpQ: <AmpI>/<AmpQ> ……
Difference	SIM5360 does not support this parameter SIM5320 AmpI/AmpQ: <AmpI>/<AmpQ>

11.2 AT+CGPSNMEA Configure NMEA sentence type

SIM5360	SIM5320
AT+CGPSNMEA=? +CGPSNMEA: (scope of <nmea>) OK AT+CGPSNMEA? +CGPSNMEA: <nmea> OK AT+CGPSNMEA=<nmea> OK	AT+CGPSNMEA=? +CGPSNMEA: (scope of <nmea>) OK AT+CGPSNMEA? +CGPSNMEA: <nmea> OK AT+CGPSNMEA=<nmea> OK
Difference	SIM5360 <nmea> Range – 0 to 31 SIM5320 <nmea> Range – 0 to 511

12 File System Related Commands

12.1 AT+FSMEM Check the size of available memory

SIM5360	SIM5320
AT+FSMEM=? *If SD card exist:* +FSMEM: (list of supported <limit>s),(list of supported <timer>s) OK *If SD card doesn't exist:* OK AT+FSMEM? AT+FSMEM=<limit>,<timer> AT+FSMEM *If SD card exist:* +FSMEM: C:(<total>, <used>), D:(<total>,<used>) OK *If SD card doesn't exist:* +FSMEM: C:(<total>, <used>) OK	AT+FSMEM=? OK AT+FSMEM +FSMEM: C:(<total>, <used>) OK
Difference	SIM5320 does not support AT+FSMEM? SIM5320 does not support AT+FSMEM=<limit>,<timer> SIM5320 does not support SD Card

12.2 AT+FSLOCA Select storage place

SIM5360	SIM5320
AT+FSLOCA=? +FSLOCA: (list of supported <loca>s) OK AT+FSLOCA? +FSLOCA: <loca> OK AT+FSLOCA=<loca> OK	AT+FSLOCA=? +FSLOCA: (list of supported <loca>s) OK AT+FSLOCA? +FSLOCA: <loca> OK AT+FSLOCA=<loca> OK
Difference	SIM5360 <loca> range 0~1 0: C:/ 1:D:/ SIM5320 <loca> always 0 (C:/) , SIM5320 not support SD Card

12.3 AT+FSFMT Format the storage card

SIM5360	SIM5320
AT+FSFMT=? OK AT+FSFMT OK	
Difference	SIM5320 does not support sdcard. So SIM5320 does not support this command

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