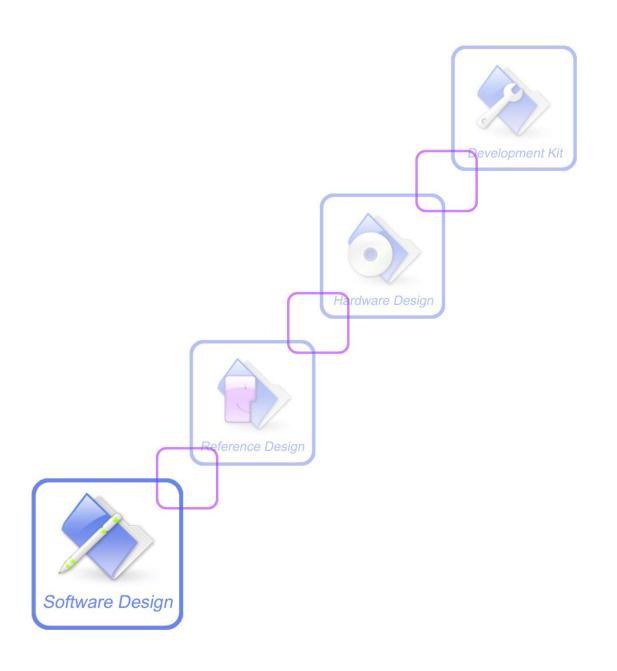


# SIM5360 SIM5320 ATC Comparison





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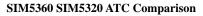
# Version History

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



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#### 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 I	nternational	Mobile	station	Equi	pment i	Identity
----------	--------------	--------	---------	------	---------	----------

IMSI International Mobile Subscriber Identity

ME Mobile EquipmentMO 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 ModuleSMS 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 CodeMMS 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.

**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></dev>	AT+CSDVC= <dev>[,<save>]</save></dev>	
OK	ОК	
Defined values:	Defined values:	
<dev>:</dev>	<dev>:</dev>	
<u>1</u> – handset	$\underline{1}$ – handset	
3 – speaker phone	3 – speaker phone	
	4 – PCM interface	
	<save>:</save>	
	<u>0</u> – 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>.</save></dev>		

# 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)</n>	
	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?	AT*CNTI?		
*CNTI: <cnti_option>, <network_mode></network_mode></cnti_option>	*CNTI: <cnti_option>, <network_mode></network_mode></cnti_option>		
OK	OK		
Defined values:	Defined values:		
<network_mode>:</network_mode>	<network_mode>:</network_mode>		
NONE	NONE		
GSM	GSM		
GPRS	GPRS		
EDGE	EDGE		
UMTS	UMTS		
HSDPA	HSDPA		
HSUPA			
HSPA			
AT*CNTI = <cnti_option></cnti_option>	AT*CNTI = <cnti_option></cnti_option>		
*CNTI: <cnti_option>, <network_mode>s</network_mode></cnti_option>	*CNTI: <cnti_option>, <network_mode>s</network_mode></cnti_option>		
OK	OK		
ERROR	ERROR		
Defined values:	Defined values:		
<network_mode>:</network_mode>	<network_mode>:</network_mode>		
NONE	NONE		
GSM	GSM		
GPRS	GPRS		
EDGE	EDGE		
UMTS	UMTS		
HSDPA	HSDPA		
HSUPA			
HSPA			
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</code>	

## 4.2 AT+CSIMLOCK Request and change password

SIM5360	SIM5320	
Not support this command	AT+CSIMLOCK= <facility>[,<old< td=""></old<></facility>	
	password>, <new password="">]</new>	
	OK	
	If error:	
	+CME ERROR: <err></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></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></delta_package>	
	+CDELTA: 1	
	OK	
	If error:	
	+CDELTA: 0, <err_code></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></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></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></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></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></value></index>	AT+CECSET= <index>,<value></value></index>	
OK	OK	
If error:	If error:	
ERROR	ERROR	
<index>:</index>	<index>:</index>	
0 – 48, EC has 49 parameters; this is the index	0 – 37, EC has 38 parameters; this is the index	
of the selected parameter.	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></switch>		AT+CGFUNC =< function >, <switch></switch>
<function>range:</function>		<function>range:</function>
1,2,3,4,7,9,10,11,12,13,14,17,18,19,20		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=?	AT+CUSBSPD=?	
+CUSBSPD: (0-1)	+CUSBSPD: (0-1)	
OK	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></value>	Not support this command
OK	
If error:	



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		"" "ME" "DC" "EN	AT+CPBS=? +CPBS:
( SM , DC , ","ON","SN")	FD, LD, MC	, ME , RC , EN	("SM","DC","FD","LD","MC","ME","RC","EN ","ON","SN")
OK			OK
Difference	SIM5360		
	"DC"	ME dialed calls li	ist
		Capacity: max. 20	0 entries
		AT+CPBW comm	nand is not applicable to this storage.
	"MC"	ME missed (unanswered received) calls list	
		Capacity: max. 20	0 entries
		AT+CPBW command is not applicable to this storage.	
	"RC"	ME received call	s list
		Capacity: max. 20 entries	
	"EN"	Emergency numbers	
		Capacity: depending on SIM card	
	SIM5320		
	"DC"	ME dialed calls l	ist
		Capacity: max. 10	0 entries
		AT+CPBW command is not applicable to this storage.  ME missed (unanswered received) calls list  Capacity: max. 10 entries	
	"MC"		
		AT+CPBW command is not applicable to this storage.	
	"RC"	ME received call	s list
		Capacity: max. 10	0 entries
	"EN"	Emergency number	pers
		Capacity: max. 50	0 entries



## 7 Commands for Packet Domain

## 7.1 AT+CGDCONT Define PDP context

SIM5360		SIM5320	
AT+CGDCONT= <cid>[,<pdp_type>[,<apn>[</apn></pdp_type></cid>		AT+CGDCONT= <cid>[,<pdp_type>[,<apn>[</apn></pdp_type></cid>	
, <pdp_addr>[,<d_comp>[,<h_comp>]]]]]</h_comp></d_comp></pdp_addr>		, <pdp_addr>[,<d_comp>[,<h_comp>]]]]]</h_comp></d_comp></pdp_addr>	
OK		OK	
If error:		If error:	
ERROR		ERROR	
Difference	SIM5360		
	<pdp_type> (Packet Data l</pdp_type>	Protocol type) a string parameter which specifies	
	the type of packet data protocol.		
	IP Internet Protocol		
	PPP Point to Point Protoco	1	
	IPV6 Internet Protocol Vers	ion 6	
	IPV4V6 Dual PDN Stack		
	SIM5320		
	<pdp_type> (Packet Data Pr</pdp_type>	otocol type) a string parameter which specifies the	
	type of		
	packet data protocol.		
	IP Internet Protocol		
	PPP Point to Point Protocol		
	IPV6 Internet Protocol Vers	ion 6	

## **7.2** AT+CGTFT Traffic Flow Template

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



supported <flow label (ipv6)>s),(list of supported <flow label (ipv6)>s),(list of supported <direction>s) supported <direction>s) [<CR><LF>+CGTFT: <PDP\_type>,(list [<CR><LF>+CGTFT: <PDP\_type>,(list ofsupported <packet filter identifier>s),(list of supported <packet filter identifier>s),(list of supported <evaluation precedence index>s),(list supported <evaluation precedence index>s),(list of supported <source address and subnet of supported <source address and subnet mask>s),(list of supported protocol number mask>s),(list of supported protocol number (ipv4) / next header (ipv6)>s),(list of supported (ipv4) / next header (ipv6)>s),(list of supported <destination port range>s),(list of supported <destination port range>s),(list of supported <source port range>s),(list of supported <ipsec</pre> <source port range>s),(list of supported <ipsec</pre> security parameter index (spi)>s),(list of security parameter index (spi)>s),(list of supported <type of service (tos) (ipv4) and mask supported <type of service (tos) (ipv4) and mask / traffic class (ipv6) and mask>s),(list of / traffic class (ipv6) and mask>s),(list of supported <flow label (ipv6)>s),(list of supported <flow label (ipv6)>s),(list of supported <direction>s) supported <direction>s) [...]] [...]] OK OK OKDifference SIM5360 <PDP\_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. ΙP 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.

#### 7.3 AT+CGQREQ **Quality of service profile (requested)**

Point to Point Protocol IPV6 Internet Protocol Version 6

Internet Protocol

SIM5360	SIM5320
AT+CGQREQ=?	AT+CGQREQ=?
+CGQREQ: <pdp_type>, (list of supported</pdp_type>	+CGQREQ: <pdp_type>, (list of supported</pdp_type>
<pre><pre><pre><pre><pre><pre><pre><delay>s),</delay></pre></pre></pre></pre></pre></pre></pre>	<pre><pre><pre><pre><pre><pre><s), (list="" <delay="" of="" supported="">s),</s),></pre></pre></pre></pre></pre></pre>
(list of supported <reliability>s), (list of</reliability>	(list of supported <reliability>s), (list of</reliability>
supported <peak>s), (list of supported <mean>s)</mean></peak>	supported <peak>s), (list of supported <mean>s)</mean></peak>
[ <cr><lf> +CGQREQ: <pdp_type>, (list of</pdp_type></lf></cr>	[ <cr><lf> +CGQREQ: <pdp_type>, (list of</pdp_type></lf></cr>

ΙP

PPP



supported recedence>s), (list of supported supported recedence>s), (list of supported <delay>s), (list of supported <reliability>s), <delay>s), (list of supported <reliability>s), (list of supported <peak>s), (list of supported (list of supported <peak>s), (list of supported <mean>s) <mean>s) [...]] [...]] OK OK *If error: If error:* **ERROR ERROR** Difference SIM5360 <PDP\_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. ΙP 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. IΡ Internet Protocol Point to Point Protocol PPP IPV6 Internet Protocol Version 6

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

SIM5360	SIM5320	
AT+CGEQREQ=?	AT+CGEQREQ=?	
+CGEQREQ: <pdp_type>,(list of supported</pdp_type>	+CGEQREQ: <pdp_type>,(list of supported</pdp_type>	
<traffic class="">s),(list of supported <maximum< td=""><td><traffic class="">s),(list of supported <maximum< td=""></maximum<></traffic></td></maximum<></traffic>	<traffic class="">s),(list of supported <maximum< td=""></maximum<></traffic>	
bitrate UL>s),(list of supported <maxim td="" um<=""><td>bitrate UL&gt;s),(list of supported <maxim td="" um<=""></maxim></td></maxim>	bitrate UL>s),(list of supported <maxim td="" um<=""></maxim>	
bitrate DL>s),(list of supported <guaranteed< td=""><td>bitrate DL&gt;s),(list of supported <guaranteed< td=""></guaranteed<></td></guaranteed<>	bitrate DL>s),(list of supported <guaranteed< td=""></guaranteed<>	
bitrate UL>s,(list of supported <guaranteed< td=""><td>bitrate UL&gt;s,(list of supported <guaranteed< td=""></guaranteed<></td></guaranteed<>	bitrate UL>s,(list of supported <guaranteed< td=""></guaranteed<>	
bitrate DL>s),(list of supported <deliv ery<="" td=""><td>bitrate DL&gt;s),(list of supported <deliv ery<="" td=""></deliv></td></deliv>	bitrate DL>s),(list of supported <deliv ery<="" td=""></deliv>	
order>s),(list of supported <maximum sdu<="" td=""><td>order&gt;s),(list of supported <maximum sdu<="" td=""></maximum></td></maximum>	order>s),(list of supported <maximum sdu<="" td=""></maximum>	
size>s),(list of supported <sdu error<="" td=""><td>size&gt;s),(list of supported <sdu error<="" td=""></sdu></td></sdu>	size>s),(list of supported <sdu error<="" td=""></sdu>	
ratio>s),(list of supported <residual bit="" error<="" td=""><td>ratio&gt;s),(list of supported <residual bit="" error<="" td=""></residual></td></residual>	ratio>s),(list of supported <residual bit="" error<="" td=""></residual>	
Ratio>s),(list of supported <delivery of<="" td=""><td>Ratio&gt;s),(list of supported <delivery of<="" td=""></delivery></td></delivery>	Ratio>s),(list of supported <delivery of<="" td=""></delivery>	
erroneous SDUs>s),(list of	erroneous SDUs>s),(list of	
Supported <transfer delay="">s),(list of supported</transfer>	Supported <transfer delay="">s),(list of supported</transfer>	
<traffic handling="" priority="">s)</traffic>	<traffic handling="" priority="">s)</traffic>	
OK	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	N=?	AT+CGQMIN=?	
+CGEQMIN:	<pdp_type>,(list of supported</pdp_type>	+CGQMIN: <pdp_type>, (list of supported</pdp_type>	
<traffic class<="" td=""><td>s&gt;s),(list of supported &lt; Maximum</td><td><pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></td></traffic>	s>s),(list of supported < Maximum	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
bitrate UL>s	),(list of supported < Maxim um	(list of supported <reliability>s), (list of</reliability>	
bitrate DL>s	),(list of supported < Guaranteed	supported <peak>s), (list of supported <mean>s)</mean></peak>	
bitrate UL>s	s,(list of supported <guaranteed< td=""><td>[<cr><lf>+CGQMIN: <pdp_type>, (list of</pdp_type></lf></cr></td></guaranteed<>	[ <cr><lf>+CGQMIN: <pdp_type>, (list of</pdp_type></lf></cr>	
bitrate DL>s	s),(list of supported <deliv ery<="" td=""><td>supported <pre><pre>recedence&gt;s), (list of supported</pre></pre></td></deliv>	supported <pre><pre>recedence&gt;s), (list of supported</pre></pre>	
order>s),(list	of supported <maximum sdu<="" td=""><td><delay>s), (list of supported <reliability>s),</reliability></delay></td></maximum>	<delay>s), (list of supported <reliability>s),</reliability></delay>	
size>s),(list	of supported <sdu error<="" td=""><td>(list of supported <peak>s), (list of supported</peak></td></sdu>	(list of supported <peak>s), (list of supported</peak>	
ratio>s),(list o	of supported <residual bit="" error<="" td=""><td><mean>s)[]]</mean></td></residual>	<mean>s)[]]</mean>	
Ratio>s),(list	of supported <delivery of<="" td=""><td>OK</td></delivery>	OK	
erroneous SD	Us>s),(list of	If error:	
Supported <t< td=""><td>Transfer delay&gt;s),(list of supported</td><td>ERROR</td></t<>	Transfer delay>s),(list of supported	ERROR	
<traffic hand<="" td=""><td>lling priority&gt;s)</td><td></td></traffic>	lling priority>s)		
OK	OK		
Difference	SIM5360		
	<pdp_type> (Packet Data Pro</pdp_type>	tocol 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</pdp_type>		
type of packet data protocol.			



IP Internet ProtocolPPP Point to Point ProtocolIPV6 Internet Protocol Version 6

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

SIM5360	SIM5320
=?	AT+CGEQMIN=?
PDP_type>,(list of supported o),(list of supported < Maximum ist of supported < Guaranteed of supported < Guaranteed of supported < Guaranteed of supported < Guaranteed of supported < Delivery of supported < SDU error supported < Residual bit error of supported < Delivery of supported < Delive	+CGEQMIN: <pdp_type>,(list of supported <traffic class="">s),(list of supported <maximum bitrate="" ul="">s),(list of supported <maxim bitrate="" dl="" um="">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 erroneous="" of="" sdus="">s),(list of Supported <delivery <transfer="" delay="" of="" supported="">s),(list of supported</delivery></delivery></residual></sdu></maximum></deliv></guaranteed></guaranteed></maxim></maximum></traffic></pdp_type>
g priority>s)	<traffic handling="" priority="">s)</traffic>
	OK
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</pdp_type></pdp_type>	
i i s i	PDP_type>,(list of supported of,(list of supported of,(list of supported of,(list of supported of,(list of supported of su



## 8 TCP/IP Related Commands

## 8.1 AT+CGSOCKCONT Define socket PDP context

	SIM5360	SIM5320
AT+CGSOCKCONT= <cid>[,<pdp_type></pdp_type></cid>		AT+CGSOCKCONT= <cid>[,<pdp_type></pdp_type></cid>
[, <apn>[,<pd< td=""><td>OP_addr&gt;[,<d_comp>[,<h_comp></h_comp></d_comp></td><td>[,<apn>[,<pdp_addr>[,<d_comp>[,<h_comp></h_comp></d_comp></pdp_addr></apn></td></pd<></apn>	OP_addr>[, <d_comp>[,<h_comp></h_comp></d_comp>	[, <apn>[,<pdp_addr>[,<d_comp>[,<h_comp></h_comp></d_comp></pdp_addr></apn>
111111		]]]]]
OK		OK
If error:		If error:
ERROR		ERROR
	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)</pdp_type></pdp_type>	

# 8.2 AT+CGSOCKQREQ Quality of service profile (requested)

SIM5360	SIM5320
AT+CGSOCKQREQ=?	AT+CGSOCKQREQ=?
+CGSOCKQREQ: <pdp_type>, (list of</pdp_type>	+CGSOCKQREQ: <pdp_type>, (list of</pdp_type>
supported <pre><pre>cedence&gt;s</pre>), (list of supported</pre>	supported <pre><pre>precedence&gt;s), (list of supported</pre></pre>
<delay>s), (list of supported <reliability>s),</reliability></delay>	<delay>s), (list of supported <reliability>s),</reliability></delay>
(list of supported <peak>s), (list of supported</peak>	(list of supported <peak>s), (list of supported</peak>
<mean>s) [<cr><lf> +CGSOCKQREQ:</lf></cr></mean>	<mean>s) [<cr><lf> +CGSOCKQREQ:</lf></cr></mean>
<pdp_type>, (list of supported <pre><pre>precedence&gt;s),</pre></pre></pdp_type>	<pdp_type>, (list of supported <pre><pre>precedence&gt;s),</pre></pre></pdp_type>
(list of supported <delay>s), (list of supported</delay>	(list of supported <delay>s), (list of supported</delay>
<reliability>s), (list of supported <peak>s), (list</peak></reliability>	<reliability>s), (list of supported <peak>s), (list</peak></reliability>
of supported <mean>s)</mean>	of supported <mean>s)</mean>
[]]	[]]



OK If error: ERROR		OK  If error:  ERROR
Difference	type of packet data protocol.  IP Internet Protocol  PPP Point to Point Protocol  IPV6 Internet Protocol V  IPV4V6 Dual PDN Stack  SIM5320	rotocol type) a string parameter which specifies the

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

SIM5360	SIM5320
AT+CGSOCKEQREQ=?	AT+CGSOCKEQREQ=?
+CGSOCKEQREQ: <pdp_type>,(list of</pdp_type>	+CGSOCKEQREQ: <pdp_type>,(list of</pdp_type>
supported <traffic class="">s),(list of supported</traffic>	supported <traffic class="">s),(list of supported</traffic>
<maximum bitrate="" ul="">s),(list of supported</maximum>	<maximum bitrate="" ul="">s),(list of supported</maximum>
<maxim bitrate="" dl="" um="">s),(list of supported</maxim>	<maxim bitrate="" dl="" um="">s),(list of supported</maxim>
<guaranteed bitrate="" ul="">s,(list of supported</guaranteed>	<guaranteed bitrate="" ul="">s,(list of supported</guaranteed>
<guaranteed bitrate="" dl="">s),(list of supported</guaranteed>	<guaranteed bitrate="" dl="">s),(list of supported</guaranteed>
<deliv ery="" order="">s),(list of supported</deliv>	<deliv ery="" order="">s),(list of supported</deliv>
<maximum sdu="" size="">s),(list of supported</maximum>	<maximum sdu="" size="">s),(list of supported</maximum>
<sdu error="" ratio="">s),(list of supported <residual< td=""><td><sdu error="" ratio="">s),(list of supported <residual< td=""></residual<></sdu></td></residual<></sdu>	<sdu error="" ratio="">s),(list of supported <residual< td=""></residual<></sdu>
bit error	bit error
Ratio>s),(list of supported <delivery of<="" td=""><td>Ratio&gt;s),(list of supported <delivery of<="" td=""></delivery></td></delivery>	Ratio>s),(list of supported <delivery of<="" td=""></delivery>
erroneous SDUs>s),(list of	erroneous SDUs>s),(list of
Supported <transfer delay="">s),(list of supported</transfer>	Supported <transfer delay="">s),(list of supported</transfer>
<traffic handling="" priority="">s) [<cr><lf></lf></cr></traffic>	<traffic handling="" priority="">s) [<cr><lf></lf></cr></traffic>
+CGSOCKEQREQ: <pdp_type>,(list of</pdp_type>	+CGSOCKEQREQ: <pdp_type>,(list of</pdp_type>
supported <traffic class="">s),(list of supported</traffic>	supported <traffic class="">s),(list of supported</traffic>
<maximum bitrate="" ul="">s),(list of supported</maximum>	<maximum bitrate="" ul="">s),(list of supported</maximum>
<maxim bitrate="" dl="" um="">s),(list of supported</maxim>	<maxim bitrate="" dl="" um="">s),(list of supported</maxim>
<guaranteed bitrate="" ul="">s,(list of supported</guaranteed>	<guaranteed bitrate="" ul="">s,(list of supported</guaranteed>
<guaranteed bitrate="" dl="">s),(list of supported</guaranteed>	<guaranteed bitrate="" dl="">s),(list of supported</guaranteed>



<Deliv order>s),(list <Deliv order>s),(list ery of supported ery of supported <Maximum SDU size>s),(list of supported <Maximum SDU size>s),(list of supported <SDU error ratio>s),(list of supported <Residual <SDU error ratio>s),(list of supported <Residual bit error bit error Ratio>s),(list of supported <Delivery of Ratio>s),(list of supported <Delivery of erroneous SDUs>s),(list of erroneous SDUs>s),(list of Supported <Transfer delay>s),(list of supported Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) [...]] <Traffic handling priority>s) [...]] OK OK Difference SIM5360 <PDP\_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IΡ 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. ΙP 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=?	AT+CGSOCKQMIN=?	
+CGSOCKQMIN: <pdp_type>, (list of</pdp_type>	+CGSOCKQMIN: <pdp_type>, (list of</pdp_type>	
supported <pre><pre>cedence&gt;s</pre>), (list of supported</pre>	supported <pre><pre>cedence&gt;s), (list of supported</pre></pre>	
<delay>s), (list of supported <reliability>s),</reliability></delay>	<delay>s), (list of supported <reliability>s),</reliability></delay>	
(list of supported <peak>s), (list of supported</peak>	(list of supported <peak>s), (list of supported</peak>	
<mean>s) [<cr><lf> +CGSOCKQMIN:</lf></cr></mean>	<mean>s) [<cr><lf> +CGSOCKQMIN:</lf></cr></mean>	
<pdp_type>, (list of supported <pre><pre>cedence&gt;s),</pre></pre></pdp_type>	<pdp_type>, (list of supported <pre><pre>precedence&gt;s),</pre></pre></pdp_type>	
(list of supported <delay>s), (list of supported</delay>	(list of supported <delay>s), (list of supported</delay>	
<reliability>s), (list of supported <peak>s), (list</peak></reliability>	<reliability>s), (list of supported <peak>s), (list</peak></reliability>	
of supported <mean>s)[]]</mean>	of supported <mean>s)[]]</mean>	
OK	OK	
If error:	If error:	
ERROR	ERROR	
Difference SIM5360 <pdp_type> (Packet Data Protocol type) a string parameter which specifies the</pdp_type>		



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



Supported <Transfer delay>s),(list of supported Supported <Transfer delay>s),(list of supported <Traffic handling priority>s) [...]] <Traffic handling priority>s) [...]] OK OK Difference SIM5360 <PDP\_type> (Packet Data Protocol type) a string parameter which specifies the type of packet data protocol. IΡ 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

SIM	15360	SIM5320	
AT+CFTPSP	UTFILE=	AT+ CFTPSPUTFILE =" <filepath>",<dir></dir></filepath>	
" <filepath>",</filepath>	<dir>[,<rest_si< td=""><td>OK</td></rest_si<></dir>	OK	
ze>]		+ CFTPSPUTFILE: 0	
OK		If list error:	
+ CFTPSPUT	ΓFILE: 0	+ CFTPSPUTFILE: <err></err>	
If list error:		ERROR	
+ CFTPSPUT	ΓFILE: <err></err>	If other error:	
ERROR		ERROR	
If other error	· error:		
ERROR			
Difference	SIM5360		
	<dir> The dire</dir>	ctory that contains the file to be uploaded:	
	0 - c	urrent 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 – " <i>D:/Picture</i> " directory		
	5 – " <i>D:/Video</i> " 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</rest_size>		
	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.</dir>		

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

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



```
<len>
                         +CFTPSGET: DATA, < len>
+CFTPSGET: 0
                         +CFTPSGET: 0
If list error:
                         If the <using_cache> is 1:
+ CFTPSGET: <err>
                         OK
                         +CFTPS: RECV EVENT
ERROR
If other error:
ERROR
                         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></time>	AT+CGPSINFO= <time></time>	
OK	OK	
+CGPSINFO:	+CGPSINFO:	
[ <lat>],[<n s="">],[<log>],[<e w="">],[<date>],[&lt;</date></e></log></n></lat>	[ <lat>],[<n s="">],[<log>],[<e w="">],[<date>],[<ut< td=""></ut<></date></e></log></n></lat>	
UTC time>],[ <alt>],[<speed>],[<course>]</course></speed></alt>	C time>],[ <alt>],[<speed>],[<course>]</course></speed></alt>	
	AmpI/AmpQ: <ampi>/<ampq></ampq></ampi>	
Difference SIM5360 does not support this parameter		
SIM5320 AmpI/AmpQ: <ampi>/<ampq></ampq></ampi>		

## 11.2 AT+CGPSNMEA Configure NMEA sentence type

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



# 12 File System Related Commands

#### 12.1 AT+FSMEM Check the size of available memory

SIM5360	SIM5320
AT+FSMEM=?  If SD card exist:	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</timer></limit></timer></limit>	OK 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</used></total></used></total></used></total>	+FSMEM: C:( <total>, <used>) OK</used></total>
Difference SIM5320 does not support AT+FSMEM? SIM5320 does not support AT+FSMEM= <li>SIM5320 does not support SD Card</li>	

#### 12.2 AT+FSLOCA Select storage place

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



## 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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