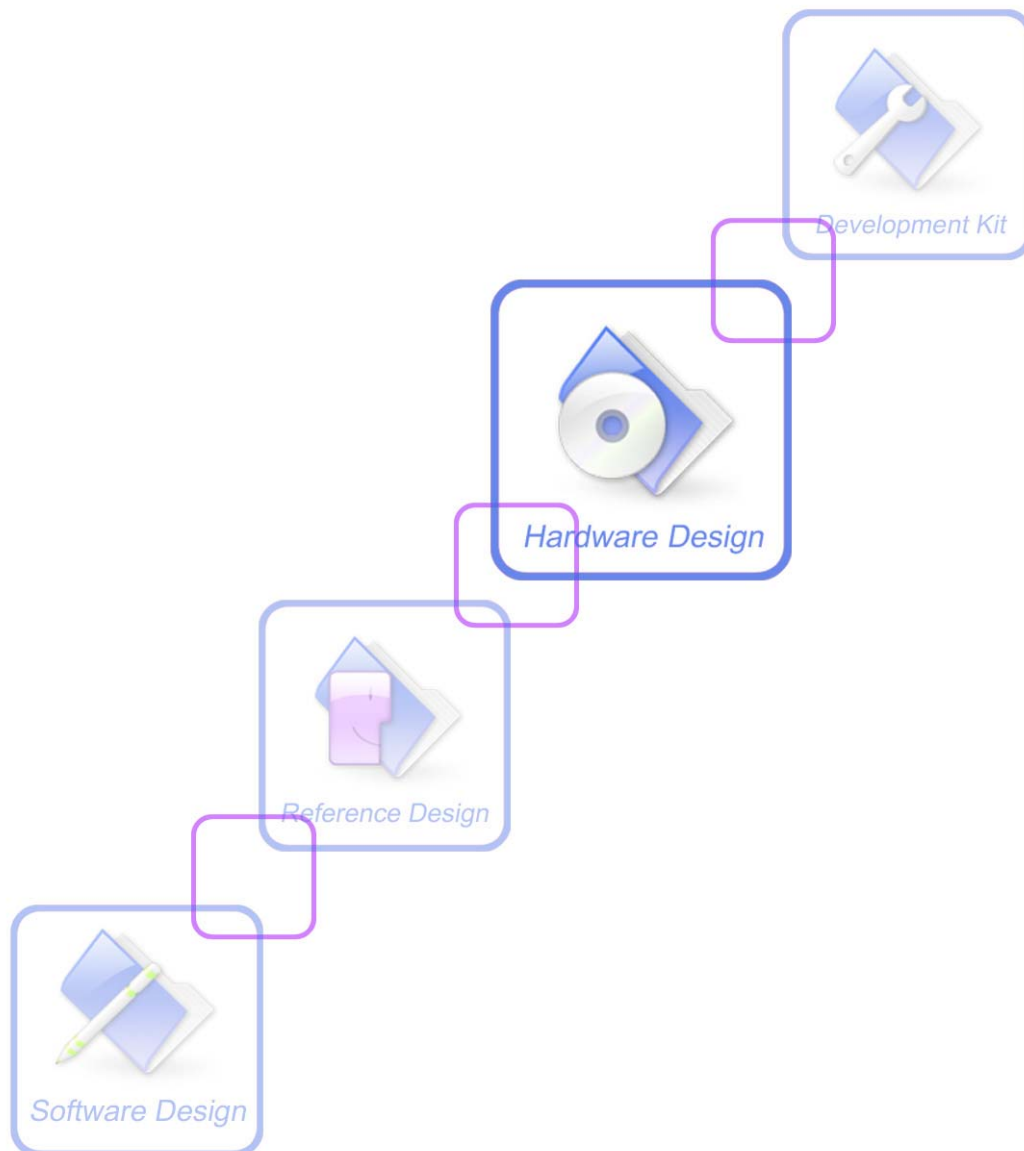




A company of SIM Tech

SIM908_SIM548C ATC Comparison _ V1.00



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Version history

Date	Version	Description of change	Author
2011-6-21	V1.00	Origin	

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1 Introduction

This document describes the important points that should be taken into account in client's application design. As SIM908 can be integrated with a wide range of applications, the application notes are described in great detail.

This document can help you quickly understand SIM908 interface specifications, electrical and mechanical details. With the help of this document and other SIM908 application notes, user guide, you can use SIM908 module to design and set-up mobile applications quickly.

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2 Difference

There are some important performances of SIM908 that are obviously different from SIM548C module. These differences are described and listed as in the following table.

Function	Description
URC after power on	A HEX string such as “00 49 49 49 49 FF FF FF FF” will be sent out through serial port at the baud rate of 115200 immediately after SIM908 is powered on. The string shall be ignored since it is used for synchronization with PC tool only. If fixed baud rate is set, “RDY” string will be sent out after power on and “Call Ready” string will be sent out after SIM card is initiated.
Combining AT commands	Semicolon shall be used as command delimiter only after an extended command, for example, “ATE1&W&F+ICF?;+CFUN?;&W” string can be executed successfully and “ATE1;&W;&F” string can not be executed.
Parameter setting and storage	The AT commands listed in the table of AT&W chapter should be stored to user profile with AT&W for use after restart. Most other AT commands in V.25, 07.05, 07.07, GPRS will store parameters automatically and can be used after module restarts. Please refer to the following table for details.
Auto-bauding	Only the strings “AT” or “At” (not “aT” or “at”) can be detected when auto-bauding is enabled. It is recommended that all AT commands shall be prefixed with “AT”. AT+IPR=0 setting to auto-bauding will take effect after module resets. However, if user wants to change DTE baud rate during module running, i.e from 115200 to 9600, DTR shall be used to urge auto-bauding progress. DTR shall be pulled up to invalid state at least 2 seconds by DTE and then pulled down to valid state. The step will urge auto-bauding progress and DCE will synchronize its baud rate after it receives string “AT” from the serial port.
SMS	With GSM code, 160 characters maximum can be sent through a SMS. With UCS2 code, 70 characters maximum can be sent through one SMS.
STK	STK AT commands of SIM908 are totally different from SIM548C. And STK application note of SIM908 module shall be referred for details.

The following table describes the details of AT command parameters setting and storage. It is highly recommended that AT command parameters used by customer should be set after module is powered on.

class	AT commands which parameters are not stored by flash or by SIM	AT commands which	AT commands which parameters
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		parameters are stored by AT&W	are stored automatically
V.25	A/ ATA ATD ATD><N> ATD><STR> ATDL ATH ATI ATL ATM +++ ATO ATP ATT ATZ AT&F AT&V AT+GCAP AT+GMI AT+GMM AT+GMR AT+GOI AT+GSM AT+HVOIC	ATE ATQ ATV ATX AT&C AT&D AT+IFC ATS0 ATS3 ATS4 ATS5 ATS7 ATS8 ATS10	AT+IPR AT+ICF
07.07	AT+CACM(SIM) AT+CAMM(SIM) AT+CAOC(SIM) AT+CCFC(SIM) AT+CCWA(SIM) AT+CGMI AT+CGMM AT+CGMR AT+CGSN AT+CHLD AT+CIMI AT+CLCC AT+COPS AT+CPAS AT+CPBF AT+CPBR AT+CPBW(SIM) AT+CPIN AT+CPWD(SIM) AT+CREG AT+CRSM AT+CSQ AT+FMI AT+FMM AT+FMR AT+VTS AT+CNUM(SIM) AT+CPOL(SIM) AT+COPN AT+CSIM AT+CALM AT+CMUT AT+CPUC(SIM) AT+CCWE(SIM) AT+CBC AT+CUSD	AT+FCLASS	AT+CBST AT+CEER AT+CSCS AT+CSTA AT+CLCK AT+CLIP AT+CLIR AT+CMEE AT+COLP AT+CPBS AT+CR AT+CRC AT+CRLP AT+VTD AT+CMUX AT+CFUN AT+CRSL AT+CLVL AT+CSSN
07.05	AT+CMGD AT+CMGL AT+CMGR AT+CMGS AT+CMGW(SIM) AT+CMSS AT+CPMS AT+CRES AT+CSAS AT+CSCA(SIM) AT+CSCB(SIM)	NONE	AT+CMGF AT+CNMI AT+CSDH AT+CSMP AT+CSMS
GPRS	AT+CGCLASS AT+CGSMS	NONE	AT+CGDCONT AT+CGQMIN AT+CGQREQ AT+CGEREP
STK	AT*PSSTKI	NONE	AT*PSSTK
TCPIP	ALL	NONE	NONE
SIMC OM special AT comm ands	AT+CPOWD AT+SPIC AT+CALA AT+CADC AT+CDSCB AT+CLTS AT+CEXTHS AT+CEXTBUT AT+CLDTMF AT+CDRIND AT+CSPN AT+CCVM(SIM) AT+CENG AT+SCLASS0 AT+CCID AT+CSDT AT+CMGDA AT+SIMTONE AT+CCPD	NONE	AT+SIDET AT+CMIC AT+CSNS AT+CMOD AT+CFGRI AT+CBAND AT+CHF AT+CHFA

AT+CGID AT+CMGHEX AT+AUTEST AT+CCODE AT+CPSPWD AT+EXUNSOL AT+CGMSCLASS AT+CDEVICE AT+CCALR AT+GSV	AT+CSCLK AT+CMTE AT+MORING AT+CIURC
--	--

2.1 AT Commands According to V.25TER

2.1.1 ATD<MEM><N>

SIM548C	SIM908
AT+CPBW=1,"10086",129,"TT" OK ATD>SM1; OK	AT+CPBW=1,"10086",129,"TT" OK ATD>SM1; ERROR
Difference	SIM908 does not support this AT command.

2.1.2 ATH[n]

SIM548C	SIM908
ATH[n] OK	ATH[n] OK
Difference	SIM908 module has enhanced function to support different parameter [n]. Different [n] parameters refer to disconnecting different kinds of call.

2.1.3 ATI[n]

SIM548C	SIM908
ATI SIMCOM_Ltd SIMCOM_SIM548C Revision: 1604B09SIM548CM32_SPANSION OK	ATI SIM900 R11.0 OK
Difference	SIM548C module returns product information. SIM908 module returns release number. Product information is returned by AT+GSV command for SIM908 module.

2.1.4 AT3

SIM548C		SIM908	
AT3=<n> OK		AT3=<n> OK	
<n>	0-13-127 Command line termination character	<n>	13 Command line termination character
Difference	SIM908 only supports default value 13.		

2.1.5 AT4

SIM548C		SIM908	
AT4=<n> OK		AT4=<n> OK	
<n>	0-10-127 response formatting character	<n>	10 response formatting character
Difference	SIM908 only supports default value 10.		

2.1.6 AT6

SIM548C		SIM908	
AT6? <n> OK		AT6? ERROR	
Difference	No effect in GSM. SIM908 module does not support read command.		

2.1.7 ATZ

SIM548C		SIM908	
ATZ[<value>] OK		ATZ[<value>] OK	
ERROR		ERROR	
Difference	SIM908 module supports two <value>: ATZ0 and ATZ1. This will not affect user's application.		

2.1.8 AT&W[<n>]

SIM548C		SIM908	
AT&W[<n>] OK		AT&W[<n>] OK	
ERROR		ERROR	
Difference	SIM908 module supports two <n>: AT&W0 and AT&W1. This will not affect user's application.		

2.1.9 AT+DR

SIM548C		SIM908	
AT+DR=? +DR: (list of supported <value>s) OK		AT+DR=? ERROR	
Difference	SIM908 does not support this command.		

2.1.10 AT+DS

SIM548C		SIM908	
AT+DS=? +DS: (list of supported <p0>s), (list of supported <n>s), (list of supported <p1>s), (list of supported <p2>s) OK		AT+DS=? ERROR	
Difference	SIM908 does not support this command.		

2.1.11 AT+GCAP

SIM548C		SIM908	
AT+GCAP +GCAP:+CGSM,+FCLASS,+DS OK		AT+GCAP +GCAP:+FCLASS,+CGSM OK	

Difference	Parameter scope is different. SIM908 does not support DS.
------------	---

2.1.12 AT+ICF

SIM548C	SIM908
AT+ICF=[<format>,<parity>] AT+ICF=? +ICF: (1-6),(0-3) OK	AT+ICF=[<format>,<parity>] AT+ICF=? +ICF: (1-6),(0,1,3) OK
Difference	Parameter scope is different. SIM908 doesn't support parameter <parity> 2.

2.1.13 AT+IFC

SIM548C	SIM908
AT+IFC=? +IFC: (0-3),(0-2) OK	AT+IFC=? +IFC: (0-2),(0-2) OK
Difference	Parameter scope is different. SIM908 defines different data flow method. SIM908 defines software flow control instead of enable or disable passing characters on to data stack respectively. SIM908 sets "no flow control" as default value. SIM548C enables RTS and CTS flow control as a default.

2.1.14 AT+IPR

SIM548C	SIM908
AT+IPR=? +IPR:(),(0,300,1200,2400,4800,9600,14400,19200,28800,38400,57600,115200) OK	AT+IPR=? +IPR:(),(0,1200,2400,4800,9600,19200,38400,57600,115200) OK
Difference	Parameter scope is different. SIM908 doesn't support following baud rate: 300, 14400 and 28800.

2.1.15 ATQ

SIM548C		SIM908	
ATQ1		ATQ1	
RING		RING	
RING		RING	
		OK	
NO CARRIER			
OK			
Difference	For SIM908, "NO CARRIER" or "NO ANSWER" will not be shown when ATQ is set to 1.		

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2.2 AT COMMANDS ACCORDING TO GSM07.07

2.2.1 AT+CBST

SIM548C		SIM908	
AT+CBST=? +CBST: (0-7,12,14,34,36,38,39,43,65,66,68,70,71,75),(0,2),(0,1) OK		AT+CBST=? +CBST: (0,7,71),(0),(1) OK	
Difference	Parameter scope is different. SIM908 doesn't support following data rates(bps):1,2,3,4,5,6, 12,14,34,36,38,39,43,65,66,68,70, 75. SIM908 doesn't support PAD bearer access service and transparent connection.		

2.2.2 AT+CCFC

SIM548C		SIM908	
AT+CCFC=? +CCFC: (0,1,2,3,4,5) OK AT+CCFC =0,3,"02132523431", OK		AT+CCFC=? +CCFC: (0-5) OK AT+CCFC =0,3,"02132523431",129, OK	
Difference	The response form of test command is a bit different. SIM908 needs to input number type (for example 129) when writing this command.		

2.2.3 AT+CSCS

SIM548C		SIM908	
AT+CSCS=? +CSCS:("GSM","HEX","IRA","PCCP", "PCDN","UCS2","8859-1") OK		AT+CSCS=? +CSCS: ("IRA","GSM","UCS2","HEX", "PCCP","PCDN","8859-1") OK	

Difference	SIM908 has different parameter sequence in the response of test command.
------------	--

2.2.4 AT+CLCK

SIM548C	SIM908
AT+CLCK=? +CLCK:("SC","AO","OI","OX","AI","IR","AB","AG","AC","FD","BN","PF","PN","PU","PP","PC","PS") OK	AT+CLCK=? +CLCK:("AO","OI","OX","AI","IR","AB","AG","AC","FD","SC","PN","PU","PP") OK
Difference	Parameter scope is different. SIM908 doesn't support following facilities: "BN","PF","PC","PS".

2.2.5 AT+COPS

SIM548C	SIM908
AT+COPS=? +COPS:(2,"CHINA MOBILE","CMCC","46000"),(3,"CHINA UNICOM GSM","CU-GSM","46001"),(0-4),(0-2) OK	AT+COPS=? +COPS:(2,"CHINA MOBILE","CMCC","46000"),(3,"CHN-UNICOM","UNICOM","46001"),(0,1,4),(0,1,2) OK
Difference	Parameter scope is different. SIM908 doesn't support manual deregistering from network and setting parameter <format> only. The name returned from test command is a little different.

2.2.6 AT+CPWD

SIM548C	SIM908
AT+CPWD=? +CPWD:("SC",8),("AO",4),("OI",4),("OX",4),("AI",4),("IR",4),("AB",4),("AG",4),("AC",4),("FD",8),("BN",8),("PS",8),("P2",8) OK	AT+CPWD=? +CPWD:("AO",4),("OI",4),("OX",4),("AI",4),("IR",4),("AB",4),("P2",8),("SC",8) OK

Difference	Parameter scope is different. SIM908 doesn't support following facilities: "AG","AC","FD","BN","PS".
------------	--

2.2.7 AT+CRLP

SIM548C	SIM908
AT+CRLP=? +CRLP: (0-61),(0-61),(39-255),(1-255),(0-1), (3-255) OK	AT+CRLP=? +CRLP: (0-61),(0-61),(44-255),(1-255),(0),(7) OK
Difference	Parameter scope is different. SIM908 doesn't support 390-430(ms) acknowledgment timer T1. SIM908 doesn't support RLP version number 1. SIM908 only support 70(ms) re-sequencing period.

2.2.8 AT+CMUX

SIM548C	SIM908
AT+CMUX=? +CMUX: (0-1),(0),(5),(127),(10),(3),(30),(10),(2) OK	AT+CMUX=? +CMUX: (0),(0),(1-8),(1-32768),(1-255),(0-100),(2-255),(1-255),(1-7) OK
Difference	Parameter scope is different. "F9 F9 F9 F9" can not be used for synchronization. For SIM908 module, illegal MUX frame will be discarded automatically.

2.2.9 AT+CFUN

SIM548C	SIM908
AT+CFUN=1,1 OK	AT+CFUN=1,1 RDY OK
Difference	For SIM908, AT+CFUN=1,1 will reset module and OK will be returned after resetting. For SIM548C, AT+CFUN=1,1 will not reset module.

2.2.10 AT+CSIM

SIM548C		SIM908	
AT+CSIM=<length>,<Command> +CSIM: < length >,< response >		AT+CSIM=<length>,<Command> +CSIM: < length >,< response >	
OK		OK	
Difference	For SIM908, AT+CSIM can only support the following commands for SIM operation: 176 0xB0 READ BINARY 178 0xB2 READ RECORD 192 0xC0 GET RESPONSE 214 0xD6 UPDATE BINARY 220 0xDC UPDATE RECORD 242 0xF2 STATUS		

2.2.11 AT+CRSL

SIM548C		SIM908	
AT+CRSL=? +CRSL: (0-100)		AT+CRSL=? +CRSL: (0-4)	
OK		OK	
Difference	Parameter scope is different. SIM908 defines 5 types of ringer sound level as follows: 1.LEVEL OFF 2.LEVEL LOW 3.LEVEL MEDIUM 4.LEVEL HIGH 5.LEVEL CRESCENDO		

2.2.12 AT+CLVL

SIM548C		SIM908	
AT+CLVL=? +CLVL: (0-100)		AT+CLVL=? +CLVL: (0-100)	
OK		OK	
Difference	The Audio SLR value of SIM908 will be a little different from SIM548C.		

2.2.13 AT+CBC

SIM548C		SIM908	
AT+CBC +CBC: 0,94,4119		AT+CBC +CBC: 1,100,3846	
OK		OK	
Difference	SIM908 supports charging function and the voltage can be read by this command in charging process		

2.2.14 AT+CCUG

SIM548C		SIM908	
AT+CCUG=? OK		AT+CCUG=? ERROR	
Difference	SIM908 does not support this command.		

2.2.15 AT+CKPD

SIM548C		SIM908	
AT+CKPD=? OK		AT+CKPD=? ERROR	
Difference	SIM908 does not support this command.		

2.2.16 AT+CHLD

SIM548C		SIM908	
AT+CHLD=? +CHLD: (0,1,1x,2,2x,3)		AT+CHLD=? +CHLD: (0,1,1x,2,2x,3,4,6,6x,7x,8x,9x)	
Difference	SIM908 module supports <n>: 4,6,6x,7x,8x,9x		

2.2.17 AT+CLCC

SIM548C		SIM908	
AT+CLCC		AT+CLCC	

<pre>[+CLCC: <id1>,<dir>,<stat>,<mode>,<mpy>[, <number>,<type>[,""]] [<CR><LF>+CLCC: <id2>,<dir>,<stat>,<mode>,<mpy>[, <number>,<type>[,""]] [...]]]</pre>	<pre>[+CLCC: <id1>,<dir>,<stat>,<mode>,<mpy>[,<number >,<type >,<alphaID>][<CR><LF>+CLCC: <id2>,<dir>,<stat>,<mode>,<mpy> [,<number>,<type>,<alphaID>][...]]]</pre>
Difference	SIM908 module supports parameter < alphaID >.

2.2.18 AT+CLIP

SIM548C	SIM908
<pre>AT+CLIP=<n> +CLIP: <number>, <type>,"",,<alphaId>,<CLI validity></pre>	<pre>AT+CLIP=<n> +CLIP: <number>,<type> [,<subaddr>,<satype>,<alphaId>,<CLI validity>]</pre>
Difference	Parameter type is different. SIM908 supports parameters :< subaddr > and < satype >.

2.2.19 AT+CMEE

SIM548C	SIM908
<pre>AT+CMEE? +CMEE: 1 OK</pre>	<pre>AT+CMEE? +CMEE: 0 OK</pre>
Difference	Default value is different. 0 is default in SIM908, 1 is default in SIM548C.

2.2.20 AT+CUSD

SIM548C	SIM908
<pre>AT+CSCS="GSM" OK AT+CUSD=1,"*139*8#" OK</pre>	<pre>AT+CSCS="GSM" OK</pre>

<pre>+CUSD: 0,"d 妍?孀 徠 c 驗瓏 孃 cc 枕:疆 Qekcxnep[W ",72</pre>	<pre>AT+CUSD=1," *139*8#" +CUSD: 1,"6B228FCE4F7F75284E2D56FD79FB52A85 B9C5C45901A4E1A52A1000A0031002E8BBE 9632000A0032002E64A496320000",72</pre>
<p>Difference</p>	<p>If the character set is set to “GSM”, the TA will return the USSD string in GSM format but UCS2 format in SIM908.</p>

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2.3 AT Commands According to GSM07.05

2.3.1 AT+CMGD

SIM548C	SIM908
AT+CMGD=? +CMGD: (1-25)	AT+CMGD=? +CMGD: (1-25),(0-4)
OK	OK
Difference	SIM908 module has enhanced function to support the second parameter <delflag>. It can be used to delete some kind of SMS, for example, all read messages.

2.3.2 AT+CMGS

SIM548C	SIM908
AT+CMGF=1 OK AT+CSCS="GSM" OK AT+CSMP=17,167,0,241 OK AT+CMGS="13621682959" >123456789012345678901234567890123456 7890123456789012345678901234567890123 4567890123456789012345678901234567890 1234567890123456789012345678901234567 8901234567890A +CMGS: 91 OK	AT+CMGF=1 OK AT+CSCS="GSM" OK AT+CSMP=17,167,0,241 OK AT+CMGS="13621682959" >123456789012345678901234567890123456789 0123456789012345678901234567890123456789 0123456789012345678901234567890123456789 0123456789012345678901234567890123456789 0A ERROR
Difference	SIM908 supports sending SMS of 160 bytes maximum for GSM code and 70 characters maximum for UCS2 code.

2.3.3 AT+CMGW

SIM548C	SIM908
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AT+CMGF=1 OK AT+CSCS="GSM" OK AT+CSMP=17,167,0,241 OK AT+CMGW="13621682959" >123456789012345678901234567890123456 7890123456789012345678901234567890123 4567890123456789012345678901234567890 1234567890123456789012345678901234567 8901234567890A +CMGW: 6 OK	AT+CMGF=1 OK AT+CSCS="GSM" OK AT+CSMP=17,167,0,241 OK AT+CMGW="13621682959" >123456789012345678901234567890123456789 0123456789012345678901234567890123456789 0123456789012345678901234567890123456789 0123456789012345678901234567890123456789 0A ERROR
Difference	SIM908 supports storing SMS of 160 bytes maximum for GSM code and 70 characters maximum for UCS2 code.

2.3.4 AT+CMGC

SIM548C	SIM908
AT+CMGC=? OK	AT+CMGC=? ERROR
Difference	SIM908 does not support this command.

2.3.5 AT+CRES

SIM548C	SIM908
AT+CRES=? +CRES: (0) OK	AT+CRES=? +CRES: (0,1) OK
Difference	Parameter scope is different. SIM908 supports profile 0 and 1 to store settings ,this will not affect user's application.

2.3.6 AT+CSAS

SIM548C	SIM908
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AT+CSAS=? +CSAS: (0) OK	AT+CSAS=? +CRES: (0,1) OK
Difference	Parameter scope is different. SIM908 supports profile 0 and 1 to store SMS settings, this will not affect user's application.

2.3.7 AT+CSMS

SIM548C	SIM908
AT+CSMS= <service> +CSMS: <mt>,<mo>,<bm>	AT+CSMS= <service> +CSMS: <mt>,<mo>,<bm>
OK	OK
Difference	Parameter <service> supports 0,128 in SIM548C module, but supports 0,1 in SIM908 module.

2.4 AT commands for SIM Application Toolkit

2.4.1 AT*PSSTKI

SIM548C	SIM908
AT*PSSTKI=? ERROR	AT*PSSTKI=? *PSSTKI: (0,1) OK AT*PSSTKI? *PSSTKI: 0 OK AT*PSSTKI=1 OK
Difference	SIM908 supports AT*PSSTKI command to enable or disable STK application.

2.4.2 AT*PSSTK

SIM548C	SIM908
AT+STGC=<cmdId> AT+STCR=<cmdId>,<result>[,<data>] AT+STCR=21,<result> AT+STCR=22,<result>[,<dcs>,<text>] AT+STCR=23,<result>[,<dcs>,<text>] AT+STCR=20,<result> AT+STCR=25,<result> AT+STCR=24,<result>[,<itemId>] AT+STCR=10,<result> AT+STCR=28,<result> AT+STCR=13,<result> AT+STCR=15,<result> AT+STCR=40,<result> AT+STCR=05,<result> AT+STPD=<length>,<data> AT+STEV=<event>,<language> AT+STMS=<item>[,<help>] AT+STRT=<duration> AT+STTONE=<mode>,<tone> AT+HSTK	AT*PSSTK="COMMAND REJECTED",<CommandNumber>,<Cause> AT*PSSTK="NOTIFICATION",<CommandN umber>,<IconDisplay> AT*PSSTK="SETUP CALL",<CommandNumber>,<IconDisplay> AT*PSSTK="DISPLAY TEXT",<CommandNumber>,<IconDisplay> AT*PSSTK="GET INKEY",<Alphabet>,<yes?no>,<CommandNu mber>,<IconDisplay>,<HelpRequest> AT*PSSTK="GET INPUT",<CommandNumber>,<Alphabet>,<te xt>,<IconDisplay>,<HelpRequest> AT*PSSTK="PLAY TONE",<CommandNumber>,<IconDisplay> AT*PSSTK="SELECT ITEM",<CommandNumber>,<ItemIdentifier> ,<IconDisplay>,<HelpRequest> AT*PSSTK="SETUP MENU",<CommandNumber>,<IconDisplay>

	<pre> AT*PSSTK="REMOVE MENU",<CommandNumber> AT*PSSTK="MENU SELECTION",<ItemIdentifier>,<HelpRequest > AT*PSSTK="ALL CALLS DISCONNECTED" AT*PSSTK="USER ACTIVITY" AT*PSSTK="IDLE SCREEN AVAILABLE" AT*PSSTK="SETUP CALL TERMINATED" AT*PSSTK="GET ITEM LIST",<numberofitem> AT*PSSTK="LANGUAGE NOTIFICATION",<NumberOfLanguages>,<P referedLanguages> AT*PSSTK="SETUP IDLE MODE TEXT",<CommandNumber>,<IconDisplay> </pre>
Difference	SIM908's command is different from SIM548C.

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2.5 AT Commands Special for SIMCOM

2.5.1 AT+ECHO

SIM548C	SIM908
AT+ECHO? +ECHO(NORMAL_AUDIO): 0,0,0 +ECHO(AUX_AUDIO): 0,0,0 OK	AT+ECHO? +ECHO (list of supported < mic>s, list of supported < es>s, list of supported < ses>s),(list of supported < mic>s, list of supported < es>s, list of supported < ses>s),(list of supported < mic>s, list of supported < es>s, list of supported < ses>s)
Difference	Parameter scope is different. SIM908 can support 4 audio channels as follows: <ul style="list-style-type: none"> 0 main audio handset channel 1 aux audio headset channel 2 main audio handfree channel 3 aux audio handfree channel The parameter type and number are all different, SIM908 provides more parameters of ECHO to be set.

2.5.2 AT+SIDET

SIM548C	SIM908
AT+SIDET=? +SIDET: (0-32767) OK	AT+SIDET=? +SIDET: (0-3),(0-16) OK
AT+SIDET=10 OK	AT+SIDET=1,6 OK
AT+SIDET? +SIDET(NORMAL_AUDIO): 4096 OK	AT+SIDET? +SIDET: (0,1),(1,5),(2,0),(3,5) OK
Difference	Parameter scope is different. SIM908 supports setting the side tone gain level of 4 channels respectively and reading it all by executing

	<p>read command.</p> <p>SIM908 separated the gain level to 17 levels which is different from SIM548C.</p>
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2.5.3 AT+CMIC

SIM548C	SIM908
<p>AT+CMIC=?</p> <p>+CMIC: (0,1),(0-15)</p> <p>OK</p> <p>AT+CMIC?</p> <p>+CMIC: 2,2</p> <p>OK</p>	<p>AT+CMIC=?</p> <p>+CMIC: (0-3),(0-15)</p> <p>OK</p> <p>AT+CMIC?</p> <p>+CMIC: (0,7),(1,9),(2,9),(3,6)</p> <p>OK</p>
Difference	The Audio RLR result of SIM908 will be a little different from SIM548C regarding to same CMIC setting. SIM908 supports 4 audio channels.

2.5.4 AT+CALA

SIM548C	SIM908
<p>AT+CALARM=?</p> <p>+CALARM:</p> <p>(0,1),"DATE,TIME",(0-3),(0-2)</p> <p>OK</p>	<p>AT+CALA=?</p> <p>+CALA:</p> <p>("yy/mm/dd,hh:mm:ss","hh:mm:ss"),(1-5),(0-7)</p> <p>OK</p>
Difference	The commands are different. SIM908 provides a new implement to set alarm.

2.5.5 AT+CADC

SIM548C	SIM908
<p>AT+CADC=?</p> <p>+CADC:(0,1),(0-2400)</p> <p>OK</p>	<p>AT+CADC=?</p> <p>+CADC: (0,1),(0-2800)</p> <p>OK</p>

Difference	Parameter scope is different. The ADC value supported by SIM908 is larger than SIM548C.
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2.5.6 AT+CDSCB

SIM548C	SIM908
AT+CDSCB	AT+CDSCB
OK	OK
Difference	In SIM908, AT+CDSCB command does not work. Instead, AT+CSCB=0 command has the same function as AT+CDSCB in SIM548C, and user can select which types of cell broadcast SMS are to be received by the ME.

2.5.7 AT+CFGRI

SIM548C	SIM908
AT+CFGRI? +CFGRI: 1	AT+CFGRI? +CFGRI: 1
OK	OK
Difference	In SIM908, when there is both an incoming call and SMS, RI will be kept low level until call is answered or rejected. In SIM548C, RI will be kept low level for a while and then be pulled to high level.

2.5.8 AT+CLDTMF

SIM548C	SIM908
AT+CLDTMF=? ERROR	AT+CLDTMF=? +CLDTMF: (1-100),(0-9,A,B,C,D,*,#)
	OK
Difference	SIM548C does not support the test command. Parameter <n> has different scope. (1-1000) in SIM548C. (1-100) in SIM908.

2.5.9 AT+CBAND

SIM548C	SIM908
AT+CBAND=? +CBAND: (PGSM_MODE,DCS_MODE,PCS_MODE,EGSM_DCS_MODE,GSM850_PCS_MODE) OK AT+CBAND? +CBAND: "EGSM_DCS_MODE" OK	AT+CBAND=? +CBAND: (PGSM_MODE,DCS_MODE,PCS_MODE,EGSM_DCS_MODE,GSM850_PCS_MODE,ALL_BAND) OK AT+CBAND? +CBAND: EGSM_DCS_MODE,ALL_BAND OK
Difference	For SIM908, module will be locked to specified bands except "ALL_BAND". If "ALL_BAND" is set, module will search band automatically. For SIM548C, module will not be locked to specified band.

2.5.10 AT+CSCLK

SIM548C	SIM908
AT+CSCLK=? +CSCLK: (0,1) OK	AT+CSCLK=? +CSCLK: (0,1,2) OK
Difference	Parameter scope is different. SIM908 supports enhanced function. The module can decide by itself when it enters sleep mode(when there is no data on serial port, module can enter sleep mode. Otherwise, it will quit sleep mode).

2.5.11 AT+SIMTONE

SIM548C	SIM908
AT+SIMTONE =? +SIMTONE: (0-1), (0-50000), (0-1000), (0-1000), (0-15300000) OK	AT+SIMTONE =? +SIMTONE: (0,1), (20-20000), (200-25500), (0,100-25500), (0-500000) OK

Difference	Parameter scope is different. SIM908 supports different frequency scope of tone to be generate, different period scope of generating and stopping tone and different duration scope of tones.

2.5.12 AT+CGMSCLASS

SIM548C	SIM908
AT+CGMSCLASS=? MULTISLOT CLASS: 1-10	AT+CGMSCLASS=? MULTISLOT CLASS: (2,4,8,9,10)
OK	OK
Difference	Parameter scope is different. SIM908 only supports GPRS multi slot class 2,4,8,9,10.

2.5.13 AT+CPSPWD

SIM548C	SIM908
AT+CPSPWD=<oldpwd>,<newpwd>	Not support this command
Difference	SIM908 does not support this command.

2.5.14 AT+EXUNSOL

SIM548C	SIM908
AT+EXUNSOL=? +EXUNSOL: ("SQ","FN","MW","UR","BC","BM","SM","CC")	AT+EXUNSOL=? +EXUNSOL: SQ
OK	OK
Difference	Only "SQ" is supported currently in SIM908.

2.5.15 AT+SGPIO

SIM548C		SIM908	
AT+SGPIO=?		AT+SGPIO=?	
ERROR		+SGPIO: (0-1),(1-12),(0-2),(0-1)	
		OK	
Difference	SIM548C does not support this command.		

2.5.16 AT+SPWM

SIM548C		SIM908	
AT+SPWM=?		AT+SPWM=?	
ERROR		+SPWM: (1-2),(0-126),(0-100)	
		OK	
Difference	SIM548C does not support this command.		

2.5.17 AT+CHF

SIM548C		SIM908	
AT+CHF=?		AT+CHF=?	
+CHF: (0-1),(0-1)		+CHF: (0-1),(0-3)	
OK		OK	
Difference	Parameter scope is different. SIM908 supports 4 channels as follows: <ul style="list-style-type: none"> 0 main audio handset channel 1 aux audio headset channel 2 main audio handfree channel 3 aux audio handfree channel 		

2.5.18 AT+CHFA

SIM548C	SIM908

AT+CHFA=? +CHFA: (0 = NORMAL_AUDIO, 1=AUX_AUDIO) OK	AT+CHFA=? +CHFA: (0 = NORMAL_AUDIO, 1 = HEADSET_AUDIO, 2 = HANDFREE_AUDIO,3 = HEADSET_HANDFREE_AUDIO) OK
Difference	Parameter scope is different. SIM908 supports 4 channels as follows: 0 main audio handset channel 1 aux audio headset channel 2 main audio handfree channel 3 aux audio handfree channel

2.5.19 AT+CLTS

SIM548C AT+CLTS +CLTS: <timestamp> OK	SIM908 AT+CLTS = <mode> OK AT+CLCK?
Difference	In SIM908, set AT+CLTS=1 means you can receive network time updating automatically, then use AT+CCLK to show current time. SIM548C needs updating the CLTS manually by executing “AT+CLTS”.

2.5.20 AT+CBTE

SIM548C AT+CBTE? ERROR	SIM908 AT+CBTE ? +CBTE: < voltage> OK
Difference	SIM548C does not support this command.

2.5.21 AT+CALS

SIM548C	SIM908
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<p>AT+CALS=? ERROR</p>	<p>AT+CALS=? +CALS: (list of supported <n>s)</p> <p>OK</p>
<p>Difference</p>	<p>SIM548C does not support this command.</p>

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2.6 AT Commands for GPRS Support

2.6.1 AT+CGDCONT

SIM548C		SIM908	
AT+CGDCONT=? +CGDCONT: (1-10),"IP" ,,,(0,1),(0,1)		AT+CGDCONT=? +CGDCONT: (1-3),"IP" ,,,(0),(0)	
OK		OK	
Difference	Parameter type and scope are different. In SIM908, CID3 is locked in non-volatile memory and is always defined, it can not be changed by user. SIM908 can't provide PDP data compression and PDP header compression.		

2.6.2 AT+CGQMIN

SIM548C		SIM908	
AT+CGQMIN? +CGQMIN: 1,0,0,0,0,0		AT+CGQMIN? +CGQMIN: 3,0,0,0,0,0	
OK		OK	
Difference	Default value is different. Cid 3 is reserved in SIM908 and always defined which can not be changed by user.		

2.6.3 AT+CGQREQ

SIM548C		SIM908	
AT+CGQREQ? +CGQMIN: 1,0,0,0,0,0		AT+CGQREQ? +CGQREQ: 3,0,0,3,0,0	
OK		OK	
Difference	Default value is different. Cid 3 is reserved in SIM908 and always defined which can not be changed by user, The default value of the fourth parameter which specifies the reliability calss is different, 3 is default in SIM908.		

2.6.4 AT+CGACT

SIM548C		SIM908	
AT+CGACT=? +CGACT: (0-1) OK AT+CGACT? +CGACT: 1,0 OK AT+CGACT=<state>,<cid> AT+CGACT=0,1 OK NO CARRIER		AT+CGACT=? +CGACT: (0,1) OK AT+CGACT? +CGACT: 3,0 OK AT+CGACT=[<state> [,<cid>]] AT+CGACT=0,1 OK	
Difference		Parameter format is different. SIM908 only supports cid3 to identify PDP contexts. SIM908 can both deactivate and activate cid.	

2.6.5 AT+CGDATA

SIM548C		SIM908	
AT+CGDATA=? +CGDATA: "PPP" OK		AT+CGDATA=? +CGDATA: "PPP" OK	
Difference		In SIM548C, CGDATA command is not used. In SIM908, CGDATA command is used for certification test, such as GCF, PTCRB.	

2.6.6 AT+CGPADDR

SIM548C		SIM908	
AT+CGPADDR=1 +CGPADDR: 1,"010.079.030.161" OK		AT+CGPADDR=3 +CGPADDR: 3, "10.78.90.61" OK	
Difference		SIM908 only supports cid3 to identify PDP contexts.	

2.6.7 AT+CGCLASS

SIM548C		SIM908	
AT+CGCLASS=? +CGCLASS: ("A","B","CG","CC")		AT+CGCLASS=? +CGCLASS: ("B","CC")	
OK		OK	
AT+CGCLASS="CG"		AT+CGCLASS="CG"	
OK		ERROR	
Difference	Parameter scope is different. SIM908 doesn't support calss A and class CG .		

2.6.8 AT+CGEREP

SIM548C		SIM908	
AT+CGEREP=? +CGEREP: (0-1)		AT+CGEREP=? +CGEREP: (0-2),(0-1)	
OK		OK	
Difference	<p>Parameter scope is different.</p> <p>SIM908 supports mode 2 defines as follows: 2 Buffer unsolicited result codes in the MT when MT TE link is reserved (e.g. in on line data mode) and flush them to the TE when MT TE link becomes available; otherwise forward them directly to the TE.</p> <p>SIM908 provides parameter <bfr> to clear or flush MT buffer.</p>		

2.6.9 AT+CGSMS

SIM548C		SIM908	
AT+CGSMS? +CGSMS: 3		AT+CGSMS? +CGSMS: 1	
OK		OK	
Difference	Default value is different. 1 is the default value of parameter <service> in SIM908 which indicates the circuit switched service, for SIM548C 3 is the default value which indicates circuit switched preferred service.		

2.6.10 AT+CGCOUNT

SIM548C		SIM908	
AT+CGCOUNT=? +CGCOUNT: (0-4),(1-10),(1-65535)		AT+CGCOUNT=? ERROR	
OK			
Difference	SIM908 does not support this command.		

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2.7 AT Commands for TCPIP Application Toolkit

2.7.1 AT+CIPSTART

SIM548C	SIM908
AT+CIPMUX=1 OK AT+CIPSTART=? +CIPSTART: (0-9),("TCP","UDP"),(0,255).(0,255).(0,255).(0,255).(0,255)",(0,65535) +CIPSTART: (0-9),("TCP","UDP"),("DOMAIN NAME"),(0,65535) OK	AT+CIPMUX=1 OK AT+CIPSTART=? +CIPSTART: (0-7),("TCP","UDP"),(0,255).(0,255).(0,255).(0,255)",(1,65535) +CIPSTART: (0-7),("TCP","UDP"),("DOMAIN NAME"),(1,65535) OK
AT+CIPSTART="TCP","116.228.221.51",7019 OK AT+CDNSORIP=1 OK AT+CIPSTART="TCP","www.baidu.com",80 OK	AT+CIPSTART="TCP","116.228.221.51",7019 OK AT+CIPSTART="TCP","www.baidu.com",80 OK
Difference	Parameter scope is different. SIM908 does not need to use AT+CDNSORIP=1 to set domain type, it can recognize IP address and domain name automatically. The port scope is different.

2.7.2 AT+CIPSEND

SIM548C	SIM908
AT+CIPMUX=0 OK AT+CIPSEND=? +CIPSEND= <length> OK AT+CIPMUX=1	AT+CIPMUX=0 OK AT+CIPSEND=? +CIPSEND: <length> OK AT+CIPMUX=1

<p>OK AT+CIPSEND=? +CIPSEND=(0-9), <length></p>	<p>OK AT+CIPSEND=? +CIPSEND: (0-7), <length></p>
<p>OK</p> <p>AT+CIPSEND? ERROR</p>	<p>AT+CIPMUX=0 OK AT+CIPSEND? +CIPSEND:1380</p> <p>OK AT+CIPMUX=1 OK AT+CIPSEND?</p> <p>+CIPSEND: 0,0</p> <p>+CIPSEND: 1,0</p> <p>+CIPSEND: 2,0</p> <p>+CIPSEND: 3,0</p> <p>+CIPSEND: 4,0</p> <p>+CIPSEND: 5,0</p> <p>+CIPSEND: 6,0</p> <p>+CIPSEND: 7,0</p> <p>OK</p>
<p>Difference</p>	<p>Response is different. SIM548C supports 10 connection numbers, for SIM908, 8 connection numbers are supported. SIM908 supports read command.</p>

2.7.3 AT+CIPCLOSE

SIM548C	SIM908
<p>AT+CIPCLOSE=1 ERROR</p>	<p>AT+CIPMUX=0 OK AT+CIPCLOSE=0 OK</p>

	AT+CIPMUX=1 OK AT+CIPCLOSE=1 OK AT+CIPCLOSE=6,0 OK AT+CIPCLOSE=6,1 OK
Difference	SIM908 supports write command.

2.7.4 AT+CLPORT

SIM548C	SIM908
AT+CLPORT? TCP: 2020 UDP: 3030 OK	AT+CLPORT? TCP: 0 UDP: 0 OK
Difference	Parameter default value is different. SIM908 can allocated a port dynamically when the value equal zero.

2.7.5 AT+CIPSTATUS

SIM548C	SIM908
AT+CIPMUX=1 OK AT+CIPSTATUS +CIPSTATUS: 0,"", "", +CIPSTATUS: 1,"", "", +CIPSTATUS: 2,"", "", +CIPSTATUS: 3,"", "", +CIPSTATUS: 4,"", "", +CIPSTATUS: 5,"", "", +CIPSTATUS: 6,"", "", +CIPSTATUS: 7,"", "", +CIPSTATUS: 8,"", "", +CIPSTATUS: 9,"", "", OK	AT+CIPMUX=1 OK AT+CIPSTATUS OK STATE: IP INITIAL C: 0,"", "", "", "INITIAL" C: 1,"", "", "", "INITIAL" C: 2,"", "", "", "INITIAL" C: 3,"", "", "", "INITIAL" C: 4,"", "", "", "INITIAL" C: 5,"", "", "", "INITIAL" C: 6,"", "", "", "INITIAL" C: 7,"", "", "", "INITIAL"
Difference	In multi mode, execution command response is different.

2.7.6 AT+CDNSCFG

SIM548C		SIM908	
AT+CDNSCFG=? OK		AT+CDNSCFG=? +CDNSCFG: ("Primary DNS"),("Secondary DNS") OK	
Difference	Test command response is different. SIM908 returns more information than SIM548C.		

2.7.7 AT+CDNSGIP

SIM548C		SIM908	
AT+CDNSCFG? PrimaryDns:211.136.112.50 SecondaryDns:211.136.20.203 OK AT+CDNSGIP="www.baidu.com" OK ERROR		AT+CDNSCFG? PrimaryDns:211.136.112.50 SecondaryDns:211.136.20.203 OK AT+CDNSGIP="www.baidu.com" OK +CDNSGIP: 0,14	
Difference	Performance of SIM908 is better than SIM548C. The response contains more information in SIM908.		

2.7.8 AT+CDNSORIP

SIM548C		SIM908	
AT+CDNSORIP=? +CDNSORIP: (0-IP ADDR,1-DOMAIN NAME) OK AT+CDNSORIP? +CDNSORIP: 0 OK		AT+CDNSORIP=? ERROR	
Difference	SIM908 does not support this command.		

2.7.9 AT+CIPATS

SIM548C	SIM908
AT+CIPATS=? +CIPATS:(0-NOT AUTO SEND,1-AUTO SEND)	AT+CIPATS=? +CIPATS: (0-NOT AUTO SEND,1-AUTO SEND),(1-100)
OK	OK
AT+CIPATS? +CIPATS: 0	AT+CIPATS? +CIPATS: 0,0
OK	OK
Difference	Parameter type is different. SIM908 supports the parameter <time> that ranged from 1 to 100.

2.7.10 AT+CIPSERVER

SIM548C	SIM908
AT+CIPSERVER=? ERROR	AT+CIPSERVER=? +CIPSERVER: (0-CLOSE SERVER,1-OPEN SERVER),(1,65535)
	OK
	AT+CIPSERVER=1,"2020" OK AT+CIPSERVER=0 (close server)
AT+CIPSERVER OK	AT+CIPSERVER ERROR
SERVER OK	
Difference	SIM548C has only execution command. Instead, in SIM908, user can use write command to open/close a server and set a listening port. The current information of server can be got by executing read command.

2.7.11 AT+CIPCSGP

SIM548C	SIM908
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AT+CIPCSGP=? +CIPCSGP: 0-CSD,DIAL NUMBER,USER NAME,PASSWORD,RATE(0,3) +CIPCSGP:1-GPRS,APN,USER NAME,PASSWORD OK	AT+CIPCSGP=? +CIPCSGP: (0-CSD,DIAL NUMBER,USER NAME,PASSWORD,RATE(0-3)),(1-GPRS,APN,USER NAME,PASSWORD) OK
AT+CIPCSGP? +CIPCSGP: 1 OK	AT+CIPCSGP? +CIPCSGP: 1,"CMNET", "", "" OK
Difference	Performance of SIM908 is better than SIM548C. SIM908 returns more information in the response of read command.

2.7.12 AT+CIPCCON

SIM548C AT+CIPCCON=? +CIPCCON: (1-CLIENT,2-SERVER) OK AT+CIPCCON? +CIPCCON: 1 OK	SIM908 AT+CIPCCON=? ERROR
Difference	SIM908 does not support this command.

2.7.13 AT+CIPFLP

SIM548C AT+CIPFLP=? +CIPFLP: (0,1) OK AT+CIPFLP? +CIPFLP: 1 OK	SIM908 AT+CIPFLP=? ERROR
Difference	SIM908 does not support this command.

2.7.14 AT+CIPDPPD

SIM548C		SIM908	
AT+CIPDPPD=? +CIPDPPD:(0-NOT SET DET PDP,1-SET DET PDP)		AT+CIPDPPD=? +CIPDPPD: (0-NOT SET DET PDP,1-SET DET PDP),(1-180),(1-10)	
OK AT+CIPDPPD? +CIPDPPD: 1, 10, 3		OK AT+CIPDPPD? +CIPDPPD: 1, 10, 3	
OK		OK	
Difference	Parameter scope is different. SIM908 returns more information in the response of test command.		

2.7.15 AT+CIPCCFG

SIM548C		SIM908	
AT+CIPCCFG=? +CIPCCFG: (NmRetry:3-8),(WaitTm:2-10),(SendSz:256-1024),(esc:0,1)		AT+CIPCCFG=? +CIPCCFG: (NmRetry:3-8),(WaitTm:2-10),(SendSz:1-1460),(esc:0,1)	
OK		OK	
Difference	Parameter scope is different. SIM908 supports more larger size of data block to be received form serial port before sending.		

2.7.16 AT+CIPSHOWTP

SIM548C		SIM908	
RCV FROM:116.228.221.51:7019 +IPD4TCP:nnnn		RCV FROM:116.228.221.51:7019 +IPD,4,TCP:nnnn	
Difference	Response format is different. SIM908's return is more clearer than SIM548C.		

2.7.17 AT+CIPQSEND

SIM548C	SIM908

AT+CIPQSEND=? ERROR	AT+CIPQSEND=? +CIPQSEND: (0,1) OK
	AT+CIPQSEND? +CIPQSEND: 1 OK
	AT+CIPQSEND=1 OK
Difference	SIM908 adds this command. Data transmitting mode can be select by this command including normal mode and quick send mode.

2.7.18 AT+CIPUDPMODE

SIM548C	SIM908
AT+CIPUDPMODE=? ERROR	AT+CIPUDPMODE=? +CIPUDPMODE: (0-2),("0,255).(0,255).(0,255).(0,255)"),(1,65535) OK
Difference	SIM548C does not support this command.

2.8 AT Commands for GPS Application

SIM548C module output GPS NMEA information, it supports AT commands for AGPS only, but no command to control GPS.

SIM908 module does not support AGPS function or similar function, but it supports AT commands to control GPS NMEA information output and some other GPS functions.

2.8.1 SIM548 AT commands for AGPS

Commands	Description
AT+GPSMODE	SET AGPS MODE
AT+GPSSERV	SET AGPS SERVER IP ADDRESS AND PORT
AT+GPSREF	SET AGPS REFERENCE
AT+GPSINFO	GET CURRENT AGPS LOCATION INFO
AT+GPSSTART	START UP AGPS CONNECTION
AT+GPSCLOSE	CLOSE AGPS CONNECTION
AT+GPSRPIN	SET AGPS REPORT INTERVAL
AT+GPSCOLDMODE	ENABLE AGPS COLD START MODE
AT+GPSTIME	SET AGPS LOCATION TIMEOUT

2.8.2 SIM908 AT commands for GPS

Commands	Description
AT+CGPSPWR	GPS POWER CONTROL
AT+CGPSRST	GPS MODE RESET (HOT/WARM/COLD)
AT+CGPSINF	GET CURRENT GPS LOCATION INFO
AT+CGPSOUT	GPS NMEA DATA OUTPUT CONTROL
AT+CGPSSTATUS	GET CURRENT GPS STATUS
AT+CGPSIPR	SET GPS NMEA OUTPUT UART BPS

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