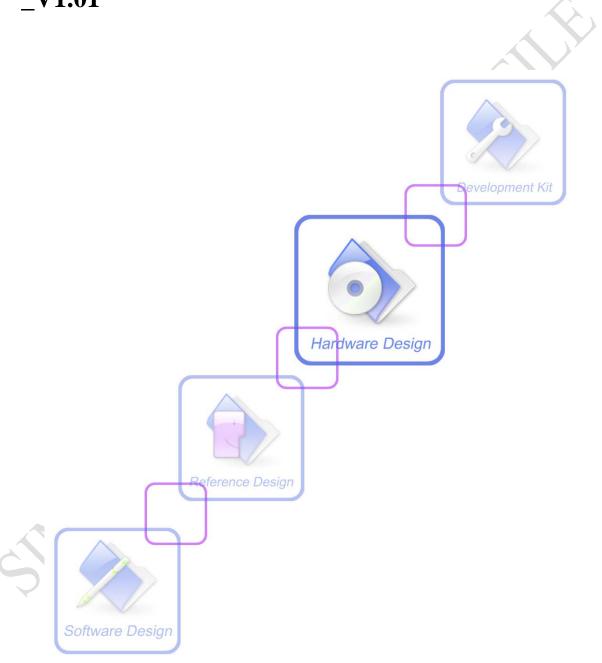


SIM900_SIM300_ATC_Comparison

_V1.01





Document Title:	SIM900 SIM300 ATC Comparison	
Version:	1.01	
Date:	2010-7-9	
Status:	Release	
Document Control ID:	SIM900_SIM300_ATC_COMPARISON_V1.01	

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Version history

Date	Version	Description of change	Author
2010-2-1	V1.00	Origin	
2010-7-9	V1.01	Update	



1 Introduction

This document describes the important points that should be taken into account in client's application design. As SIM900 can be integrated with a wide range of applications, the application notes are described in great detail.

This document can help you quickly understand SIM900 interface specifications, electrical and mechanical details. With the help of this document and other SIM900 application notes, user guide, you can use SIM900 module to design and set-up mobile applications quickly.



2 Difference

There are some important performances of SIM900 that are obviously different from SIM300 module. These differences are described and listed as in the following table.

Function	Description
URC after power	A HEX string such as "00 49 49 49 FF FF FF FF" will be sent out
on	through serial port at the baud rate of 115200 immediately after SIM900 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. "+CPIN:
	READY" or "+CPIN: SIM PIN" string will not be sent out by SIM900
	module.
Combining AT	Semicolon shall be used as command delimiter only after an extended
commands	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	The AT commands listed in the table of AT&W chapter should be stored to
and storage	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 SIM900 are totally different from SIM300. And
	STK application note of SIM900 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 parameters are stored by AT&W	AT commands which parameters 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</str></n>	ATE ATQ ATV ATX AT&C AT&D AT+IFC ATS0 ATS3 ATS4 ATS5 ATS7 ATS8 ATS10	AT+IPR AT+ICF
07.0	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+CRC AT+CRLP AT+CMUX AT+CFUN AT+CRSL AT+CLVL AT+CSSN
07.0	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
GPR S	AT+CGCLASS AT+CGSMS	NONE	AT+CGDCONT AT+CGQMIN AT+CGQREQ AT+CGEREP
STK	AT*PSSTKI	NONE	AT*PSSTK
TCP IP	ALL	NONE	NONE
SIM CO M	AT+CPOWD AT+SPIC AT+CALA AT+CADC AT+CDSCB AT+CLTS AT+CEXTHS AT+CEXTBUT	NONE	AT+SIDET AT+CMIC AT+CSNS

7/9/2010



speci	AT+CLDTMF AT+CDRIND AT+CSPN	AT+CMOD
al	AT+CCVM(SIM) AT+CENG	AT+CFGRI
AT	AT+SCLASS0 AT+CCID AT+CSDT	AT+CBAND
com	AT+CMGDA AT+SIMTONE AT+CCPD	AT+CHF AT+CHFA
man	AT+CGID AT+CMGHEX AT+AUTEST	AT+CSCLK
ds	AT+CCODE AT+CPSPWD	AT+CMTE
	AT+EXUNSOL AT+CGMSCLASS	AT+MORING
	AT+CDEVICE AT+CCALR AT+GSV	AT+CIURC

2.1 AT Commands According to V.25TER

2.1.1 AT<MEM><N>

SIM	1300	SIM900
ATD> <mem><n></n></mem>		
AT+CPBW=1,"10086"	",129,"TT"	AT+CPBW=1,"10086",129,"TT"
OK		OK
ATD>SM1;		ATD>SM1;
OK		ERROR
Difference	SIM900 does not support this AT command	

2.1.2 ATH[n]

SIN	И300	SIM900
ATH[n]		ATH[n]
OK		OK
Difference	SIM900 module has e	nhanced function to support different parameter
	[n]. Different [n] parameters refer to disconnecting different kinds of	
	call.	

2.1.3 ATI[n]

,	SIM300	SIM900
ĺ	ATI	ATI
	SIMCOM_Ltd	SIM900 R11.0
	_	SIM OU KII.U
	SIMCOM_SIM300	
	Revision: 1604B09SIM300M32_SPANSION	OK
	ОК	



Difference	SIM300 module returns product information. SIM900 module returns	
	release number. Product information is returned by AT+GSV	
	command for SIM900 module.	

2.1.4 ATS3

SIM300	SIM900
ATS3= <n></n>	ATS3= <n></n>
OK	OK
<n> 0-<u>13</u>-127 Command line</n>	<n> 13 Command line termination</n>
termination character	character
Difference SIM900 only supports	s default value 13.

2.1.5 ATS4

SIM300	SIM900
ATS4= <n></n>	ATS4= <n></n>
ОК	ОК
<n> 0-<u>10</u>-127 response formatting</n>	<n> 10 Command line termination</n>
character	character
Difference SIM900 only supports	s default value 10.

2.1.6 ATS6

	SIM	[300		SIM900
	ATS6?		ATS6?	
1				
	<n></n>		ERROR	
1	OK			
	Difference	No effect in GSM. SIM900 module does not support this command.		

2.1.7 ATZ

SIM300	SIM900
ATZ[<value>]</value>	ATZ[<value>]</value>



OK		ОК
ERROR		ERROR
Difference	SIM900 module supports two <value>: ATZ0 and ATZ1. This will not</value>	
	affect user application.	

2.1.8 AT&W[<n>]

SIM	1300	SIM900
AT&W[<n>]</n>		AT&W[<n>]</n>
OK		OK
ERROR		ERROR
Difference	SIM900 module supports two <n>: AT&W0 and AT&W1. This will</n>	
	not affect user application.	

2.1.9 AT+DR

SIM	1300		SIM900
AT+DR?		AT+DR?	
+DR: <value></value>		ERROR	
OK			
Difference	SIM900 does not support this command.		

2.1.10 AT+DS

SIM	1300		SIM900
AT+DS?		AT+DS?	
+DR: <value></value>		ERROR	
OK			
Difference SIM900 does not support this command.			

2.1.11 AT+GCAP

SIM300	SIM900	
AT+GCAP	AT+GCAP	
+GCAP:+CGSM,+FCLASS,+DS	+GCAP:+FCLASS,+CGSM	



OK	ОК	
Difference	Parameter scope is different. SIM900 does not support DS.	

2.1.12 AT+ICF

SIM	I300	SIM900
AT+ICF=?		AT+ICF=?
+ICF: (1-6),(0-4)		+ICF: (1-6),(0,1,3)
OK		ОК
Difference	Parameter scope is different.	

2.1.13 AT+IFC

SIM	1300		SIM900
AT+IFC=?		AT+IFC=?	
+IFC: (0-3),(0-2)		+IFC: (0-2),(0-2)	
OK		OK	
Difference	Parameter scope is different.		

2.1.14 AT+IPR

SIM300	SIM900
AT+IPR=?	AT+IPR=?
+IPR:(),(0,300,1200,2400,4800,9600,14400	+IPR:(),(0,1200,2400,4800,9600,19200,38400,57
9200,28800,38400,57600,115200)	600,115200)
OK	ОК
Difference Parameter scope is	different.

2.1.15 ATQ

SIM300	SIM900
ATQ1	ATQ1
RING	RING
RING	RING
	OK



NO CARRIER		
OK		
Difference	For SIM900, "NO CARRIER" or "NO ANSWER" is a kind of result	
	codes which will not shown when ATQ1 is set.	





2.2 AT COMMANDS ACCORDING TO GSM07.07

2.2.1 AT+CBST

SIM	1300	SIM900
AT+CBST=?		AT+CBST=?
+CBST:		+CBST: (0,7,71),(0),(1)
(0-7,12,14,34,36,38,39,43,65,66,68,70,71,75),(
0,2),(0,1)		OK
OK		
Difference	Parameter scope is di	fferent.

2.2.2 AT+CCFC

SIM300	SIM900
AT+CCFC=?	AT+CCFC=?
+CCFC: (0,1,2,3,4,5)	+CCFC: (0-5)
ОК	ОК
AT+CCFC=0,2	AT+CCFC=X,2
+CCFC: 0,7	+CCFC: 0,7
ОК	ОК
AT+CCFC =0,3,"02132523431",	AT+CCFC =0,3,"02132523431",129,
OK	ОК
Difference The response	is different.

2.2.3 AT+CSCS

,	SIM300		SIM900
	AT+CSCS=?		AT+CSCS=?
	+CSCS:("GSM","HEX","IRA","PCCP","		+CSCS:
	PCDN","UCS2","8859-1")		("IRA","GSM","UCS2","HEX","PCCP","P
			CDN","8859-1")
	OK		
	Difference	Parameter sequence is	s different.



2.2.4 AT+CLCK

SIM300	SIM900
AT+CLCK=?	AT+CLCK=?
+CLCK:("SC","AO","OI","OX","AI","I	+CLCK:("AO","OI","OX","AI","IR","AB",
R","AB","AG","AC","FD","BN","PF","	"AG","AC","FD","SC","PN","PU","PP")
PN","PU","PP","PC","PS")	
	OK
OK	
Difference Parameter type is diff	Gerent.

2.2.5 AT+COPS

SIM300		SIM900
AT+COPS=?		AT+COPS=?
+COPS:(2,"CHINA		+COPS:(2,"China
MOBILE","CMCC","46000"),(3,"CHINA		Mobile","CMCC",46000"),(3,"CHN
UNICOM		Unicom","CU-GSM",46001"),,(0,1,4
GSM","CU-GSM","46001"),,(0-4),(0-2)),(0,2)
ОК		ОК
Difference	Parameter scope is di	fferent.

2.2.6 AT+CPBS

	The state of the s		
	SIM300		SIM900
	AT+CPBS=?		AT+CPBS=?
+CPBS:("MC","RC","DC","LD","LA","		,"DC","LD","LA","	+CPBS:("MC","RC","DC","LD","LA","SM
	ME","SM","FD","ON","BN","SD","VM		","FD","ON","BN","SD","VM","EN")
	")		
			OK
OK			
1	Difference	Parameter type is diff	erent.

2.2.7 AT+CPWD

SIM300	SIM900
AT+CPWD=?	AT+CPWD=?
+CPWD:("SC",8),("AO",4),("OI",4),("OX	+CPWD:("AO",4),("OI",4),("OX",4),("AI",4)



",4),("AI",4),("IR",4),("AB",4),("AG",4),("AC",4),("FD",8),("BN",8),("PS",8),("P2"		,("IR",4),("AB",4),("P2",8),("SC",8)
,8)		ОК
ОК		
Difference	Parameter scope is different.	

2.2.8 AT+CRLP

SIM	1300	SIM900
AT+CRLP=?		AT+CRLP=?
+CRLP:		+CRLP: (0-61),(0-61),(44-255),(1-255),(0),(7)
(0-61),(0-61),(39-255),(1-255),(0-1),(3-255)		
		OK
OK		
Difference	Parameter scope is dif	fferent.

2.2.9 AT+CMUX

SIM300		SIM900
AT+CMUX=?		AT+CMUX=?
+CMUX:		+CMUX:
(0-1),(0),(5),(127),(10),(3),(30),(10),(2)		(0), (0), (1-8), (1-32768), (1-255), (0-100), (2-255), (1
		-255)
OK		
		OK
Difference	Parameter scope is different. "F9 F9 F9" can not be used for	
	synchronization. For SIM900 module, illegal MUX frame will be	
	discarded automatica	lly.

2.2.10 AT+CFUN

SIM300		SIM900
AT+CFUN=1,1		AT+CFUN=1,1
OK		RDY
		ОК
Difference	For SIM900, AT+Cl	FUN=1,1 will reset module and OK will be
	returned after reset.	For SIM300, AT+CFUN=1,1 will not reset
	module.	



2.2.11 AT+CSIM

SIM300		SIM900
AT+CSIM= <length>,<command/></length>		AT+CSIM= <length>,<command/></length>
+CSIM: < length >,< response >		+CSIM: < length >,< response >
		O.V.
OK		OK
Difference	For SIM900, AT+CSIM can only support the following commands for	
	SIM operation:	
	176 0xB0 READ BINA	ARY
	178 0xB2 READ REC	CORD
	192 0xC0 GET RESPONSE	
	214 0xD6 UPDATE BINARY	
	220 0xDC UPDATE F	RECORD
	242 0xF2 STATUS	

2.2.12 AT+CRSL

SIM	1300	SIM900	
AT+CRSL=?		AT+CRSL=?	
+CRSL: (0-100)		+CRSL: (0-4)	
0		OV.	
OK		OK	
Difference	Parameter scope is different.		

2.2.13 AT+CLVL

	SIM	1300	SIM900
	AT+CLVL=?		AT+CLVL=?
	+CLVL: (0-100)		+CLVL: (0-100)
	OK		OK
	Difference	The Audio SLR value of SIM900 will be a little different from SIM300.	

2.2.14 AT+CBC

SIM300	SIM900
AT+CBC=?	AT+CBC=?
+CBC: (0-2),(1-100),(voltage)	+CBC: (0-2),(1-100),(voltage)



OK	OK
Difference	SIM900 module does not have charge function.

2.2.15 AT+CCUG

SIM	1300	SIM900
AT+CCUG=?		
ОК		
Difference	SIM900 does not support this command.	

2.2.16 AT+CKPD

SIN	/1300		SIM900
AT+CKPD=?			
ОК			
Difference	SIM900 does not supp	ort this command.	

2.2.17 AT+CHLD

SIM300		SIM900
AT+CHLD=?		AT+CHLD=?
+CHLD: (0,1,1x,2,2x,3)		+CHLD: (0,1,1x,2,2x,3,4,6,6x,7x,8x,9x)
Difference	SIM900 module supports <n>: 4,6,6x,7x,8x,9x</n>	

2.2.18 AT+CLCC

SIM300	SIM900
AT+CLCC	AT+CLCC
[+CLCC:	[+CLCC:
<id1>,<dir>,<stat>,<mode>,<mpty>[,</mpty></mode></stat></dir></id1>	<id1>,<dir>,<stat>,<mode>,<mpty>[,<number< td=""></number<></mpty></mode></stat></dir></id1>
<number>,<type>[,"",]]</type></number>	>, <type< td=""></type<>
[<cr><lf>+CLCC:</lf></cr>	>, <alphaid>][<cr><lf>+CLCC:</lf></cr></alphaid>
<id2>,<dir>,<stat>,<mode>,<mpty>[,</mpty></mode></stat></dir></id2>	<id2>,<dir>,<stat>,<mode>,<mpty></mpty></mode></stat></dir></id2>
<number>,<type>[,"",]]</type></number>	[, <number>,<type>,<alphaid>][]]]</alphaid></type></number>
[]]]	



Difference SIM900 module supports parameter < alphaID >

2.2.19 AT+CLIP

SIM	1300	SIM900	
AT+CLIP= <n></n>		AT+CLIP= <n></n>	
+CLIP: <number>,</number>		+CLIP: <number>,<type></type></number>	
<type>,"",,<alphaid>,<cli validity=""></cli></alphaid></type>		[, <subaddr>,<satype>,<alphaid>,<cli validity="">]</cli></alphaid></satype></subaddr>	
Difference	Parameter number and type are different.		



2.3 AT Commands According to GSM07.05

2.3.1 AT+CMGD

SIM300		SIM900
AT+CMGD=?		AT+CMGD=?
+CMGD: (1-25)		+CMGD: (1-25),(0-4)
ОК		ОК
Difference	SIM900 module has e	nhanced function to support a second parameter
	<delflag>. It can be u</delflag>	sed to delete some kind of SMS, for example, all
	read messages.	

2.3.2 AT+CMGS

SIM300		SIM900		
AT+CMGF=1		AT+CMGF=1		
OK		OK		
AT+CSCS="GSM"		AT+CSCS="GSM"		
OK		OK		
AT+CSMP=17,167,0,2	41	AT+CSMP=17,167,0,241		
OK		OK		
AT+CMGS="1362168	2959''	AT+CMGS="13621682959"		
>123456789012345678901234567890123456		>123456789012345678901234567890123456789		
7890123456789012345678901234567890123		0123456789012345678901234567890123456789		
4567890123456789012345678901234567890		0123456789012345678901234567890123456789		
1234567890123456789012345678901234567		0123456789012345678901234567890123456789		
8901234567890A		0A		
+CMGS: 91		ERROR		
OK				
Difference	SIM900 supports sen	ding SMS of 160 bytes maximum for GSM code		
and 70 characters maximum for UCS		ximum for UCS2 code.		

2.3.3 AT+CMGW

SIM300	SIM900
5111500	511/1/00



AT+CMGF=1		AT+CMGF=1		
OK		OK		
AT+CSCS="GSM"		AT+CSCS="GSM"		
OK		OK		
AT+CSMP=17,167,0,2	241	AT+CSMP=17,167,0,241		
OK		OK		
AT+CMGW="136216	582959''	AT+CMGW="13621682959"		
>123456789012345678	8901234567890123456	>123456789012345678901234567890123456789		
7890123456789012345678901234567890123		0123456789012345678901234567890123456789		
4567890123456789012345678901234567890		0123456789012345678901234567890123456789		
1234567890123456789012345678901234567		0123456789012345678901234567890123456789		
8901234567890A		0A		
+CMGW: 6		ERROR		
OK				
Difference	SIM900 supports storing SMS of 160 bytes maximum for GSM code			
and 70 characters ma		ximum for UCS2 code.		

2.3.4 AT+CMGC

SIM300		SIM900
at+cmgc=?		Not support this command
ок		
Difference	SIM900 does not supp	ort this command.

2.3.5 AT+CRES

	SIM300	SIM900
	AT+CRES=?	AT+CRES=?
	+CRES: (0)	+CRES: (0,1)
	OK	OK
-	Difference	Parameter scope is different. This will not affect user application.

2.3.6 AT+CSAS

SIM300	SIM900
5111500	S11V1900



AT+CSAS=?	AT+CSES=?
+CSAS: (0)	+CRES: (0,1)
ОК	ОК
Difference	Parameter scope is different. This will not affect user application.

2.3.7 AT+CSMS

SIM300		SIM900		
AT+CSMS= <service></service>		AT+CSMS= <service></service>		
+CSMS: <mt>,<mo>,<bm></bm></mo></mt>		+CSMS: <mt>,<mo>,<bm></bm></mo></mt>		
OK		OK		
Difference	Parameter <service> supports 0,128 in SIM300 module, but supports</service>			
	0,1 in SIM900 module.			

2.3.8 AT+CMGR

	SIM300			SIM900					
	AT+CMGR=6		AT+CMGR=3						
	ОК			+CMS EI	RROR:	321(inva	alid 1	memory inde	ex)
	Difference	The return	value is	different	when	lookup	an	inexistence	short
		message.							
Ć									



2.4 AT commands for SIM Application Toolkit

2.4.1 AT*PSSTKI

SIM300	SIM900
Not have this command	AT*PSSTKI=?
	*PSSTKI: (0,1)
	OK
	AT*PSSTKI?
	*PSSTKI: 0
	OK
	AT*PSSTKI=1
	OK
Difference SIM900 supports A	T*PSSTKI command to enable or disable STK
application.	

2.4.2 AT*PSSTK

SIM300	SIM900
AT+STGC= <cmdid></cmdid>	AT*PSSTKI
AT+STCR= <cmdid>,<result>[,<data>]</data></result></cmdid>	AT*PSSTK="COMMAND
AT+STCR=21, <result></result>	REJECTED", <commandnumber>, <cause></cause></commandnumber>
AT+STCR=22, <result>[,<dcs>,<text>]</text></dcs></result>	AT*PSSTK="NOTIFICATION", < CommandN
AT+STCR=23, <result>[,<dcs>,<text>]</text></dcs></result>	umber>, <icondisplay></icondisplay>
AT+STCR=20, <result></result>	AT*PSSTK="SETUP
AT+STCR=25, <result></result>	CALL", <commandnumber>,<icondisplay></icondisplay></commandnumber>
AT+STCR=24, <result>[,<itemid>]</itemid></result>	AT*PSSTK="DISPLAY
AT+STCR=10, <result></result>	TEXT", <commandnumber>,<icondisplay></icondisplay></commandnumber>
AT+STCR=28, <result></result>	AT*PSSTK="GET
AT+STCR=13, <result></result>	INKEY", <alphabet>,<yes?no>,<commandnu< th=""></commandnu<></yes?no></alphabet>
AT+STCR=15, <result></result>	mber>, <icondisplay>,<helprequest></helprequest></icondisplay>
AT+STCR=40, <result></result>	AT*PSSTK="GET
AT+STCR=05, <result></result>	INPUT'', <commandnumber>,<alphabet>,<te< th=""></te<></alphabet></commandnumber>
AT+STPD= <length>,<data></data></length>	xt>, <icondisplay>,<helprequest></helprequest></icondisplay>
AT+STEV= <event>,<language></language></event>	AT*PSSTK="PLAY
AT+STMS= <item>[,help]</item>	TONE", <commandnumber>,<icondisplay></icondisplay></commandnumber>
AT+STRT= <duration></duration>	AT*PSSTK="SELECT
AT+STTONE= <mode>,<tone></tone></mode>	ITEM", <commandnumber>,<itemidentifier></itemidentifier></commandnumber>
AT+HSTK	, <icondisplay>,<helprequest></helprequest></icondisplay>



SIM900_SIM300 ATC com	n A company of SIM Tech
	AT*PSSTK="SETUP
	MENU", < Command Number >, < I con Display >
	AT*PSSTK="REMOVE
	MENU", < Command Number >
	AT*PSSTK="MENU
	SELECTION", <itemidentifier>,<helprequest< td=""></helprequest<></itemidentifier>
	>
	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></numberofitem>
	AT*PSSTK="LANGUAGE
	NOTIFICATION", <numberoflanguages>,<p< th=""></p<></numberoflanguages>
	referedLanguages>
	AT*PSSTK="SETUP IDLE MODE
	TEXT", < CommandNumber >, < IconDisplay >
Difference	1900's command is different from SIM300.



2.5 AT Commands Special for SIMCOM

2.5.1 AT+ECHO

SIM300		SIM900
AT+ECHO?		AT+ECHO?
+ECHO(NORMAL_AUD	IO): 0,0,0	+ECHO (list of supported < mic >s, list of
+ECHO(AUX_AUDIO): (0,0,0	supported < es >s, list of supported < ses >s),(list
		of supported < mic >s, list of supported < es >s, list
OK		of supported < ses >s),(list of supported < mic >s,
		list of supported < es >s, list of supported < ses >s)
		OK
Difference Pa	rameter is different	. SIM900 can support 3 audio channels.

2.5.2 AT+SIDET

SIM300	SIM900
AT+SIDET=?	AT+SIDET=?
+SIDET: (0-32767)	+SIDET: (0-2),(0-16)
OK	OK
AT+SIDET?	AT+SIDET?
+SIDET(NORMAL_AUDIO): 4096	+SIDET: (0,1),(1,5),(2,0)
ОК	ОК
Difference Parameter scope is	lifferent.

2.5.3 AT+CMIC

SIM30	0	SIM900
AT+CN	MIC=?	AT+CMIC=?
+CMIC	C: (0,1),(0-15)	+CMIC: (0-2),(0-15)
OK		OK
AT+CN	MIC?	AT+CMIC?
+CMIC	C: 2,2	+CMIC: (0,7),(1,9),(2,9)



OK	ОК
Difference	The Audio RLR result of SIM900 will be a little different from
	SIM300 regarding to same CMIC setting. SIM900 support 3 audio
	channels.

2.5.4 AT+CALA

SIM300		SIM900
AT+CALARM=?		AT+CALA=?
+CALARM:		+CALA:
(0,1),"DATE,TIME",	(0-3),(0-2)	("yy/mm/dd,hh:mm:ss","hh:mm:ss"),(1-5),(0-
		7)
OK		
		OK
Difference	The commands are di	fferent.

2.5.5 AT+CADC

SIM300		SIM900
AT+CADC=?		AT+CADC=?
+CADC:(0,1),(0-2400)		+CADC: (0,1),(0-2800)
OK		OK
Difference	Parameter scope is dif	ferent.

2.5.6 AT+CDSCB

SIM300		SIM900
AT+CDSCB		AT+CDSCB
OK		OK
Difference	In SIM900, AT+CDS	CB command does not have function. Instead,
	AT+CSCB=0 comma	and has the same function as AT+CDSCB in



SIM300.

2.5.7 AT+CFGRI

SIM300		SIM900
AT+CFGRI?		AT+CFGRI?
+CFGRI: 1		+CFGRI: 1
OK		OK
Difference	In SIM900, when the	re is both an incoming call and SMS, RI will be
	kept low level until ca	all is answered or rejected. In SIM300, RI will be
	kept low level for a wl	hile and then be pulled to high level.

2.5.8 AT+CLDTMF

SIM300		SIM900
		AT+CLDTMF=?
		+CLDTMF: (1-100),(0-9,A,B,C,D,*,#)
		OK
Difference	SIM300 does not supp	oort the test command.
	Parameter <n> has</n>	different scope. (1-1000) in SIM300.(1-100)in
	SIM900.	

2.5.9 AT+CBAND

SIM300	SIM900
AT+CBAND=?	AT+CBAND=?
+CBAND:	+CBAND:
(PGSM_MODE,DCS_MODE,PCS_MODE,	(PGSM_MODE,DCS_MODE,PCS_MODE,EG
EGSM_DCS_MODE,GSM850_PCS_MOD	SM_DCS_MODE,GSM850_PCS_MODE,ALL
E)	_BAND)
OK	OK
AT+CBAND?	AT+CBAND?
+CBAND: "EGSM_DCS_MODE"	+CBAND: EGSM_DCS_MODE,ALL_BAND
OK	OK



Difference	For SIM900, module will be locked to specified bands except
	"ALL_BAND". If "ALL_BAND" is set, module will search band
	automatically. For SIM300, module will not be locked to specified
	bands.

2.5.10 AT+CSCLK

SIM300	SIM900
AT+CSCLK=?	AT+CSCLK=?
+CSCLK: (0,1)	+CSCLK: (0,1,2)
OK	ОК
Difference	Parameter scope is different. SIM900 supports enhanced function.

2.5.11 AT+CENG

SIM300		SIM900
AT+CENG=?		AT+CENG=?
+CENG: (0-2),(0-1)		+CENG: (0-2),(0-1)
OK		OK
Difference	SIM900 will return more parameters: TA of service cell and LACs of	
	neighbour cell.	

2.5.12 AT+SIMTONE

SIM300		SIM900
AT+SIMTONE =?		AT+SIMTONE =?
+SIMTONE: (0-1),	(0-50000), (0-1000),	+SIMTONE: (0,1), (20-20000), (200-25500),
(0-1000), (0-15300000))	(0,100-25500), (0-500000)
OK		OK
Difference	Parameter scope is dif	fferent.

2.5.13 AT+CGMSCLASS

SIM300	SIM900



AT+CGMSCLASS=?		AT+CGMSCLASS=?
MULTISLOT CLASS: 1-10		MULTISLOT CLASS: (4,8,9,10)
ОК		ОК
Difference	Parameter scope is different.	

2.5.14 AT+CPSPWD

SIM300	SIM900	
AT+CPSPWD= <oldpwd>,<newpwd></newpwd></oldpwd>		
Difference SIM900 does not supp	SIM900 does not support it.	

2.5.15 AT+EXUNSOL

SIM300		SIM900
AT+EXUNSOL=?		AT+EXUNSOL=?
+EXUNSOL:		+EXUNSOL: SQ
("SQ","FN","MW","UR","BC","BM","S		
M","CC")		OK
OK		
Difference	Only "SQ" is supported currently in SIM900.	

2.5.16 AT+SGPIO

	SIM300		SIM900
	Not support this comm	nand.	AT+SGPIO=?
			+SGPIO: (0-1),(1-12),(0-2),(0-1)
1			ОК
	Difference	SIM300 does not support this command.	

2.5.17 AT+SPWM

SIM300	SIM900



Not support this co	mmand.	AT+SPWM=?
		+SPWM: (1-2),(0-126),(0-100)
		ОК
Difference	SIM300 does not support this command.	

2.5.18 AT+CHF

SIM300		SIM900
AT+CHF=?		AT+CHF=?
+CHF: (0-1),(0-1)		+CHF: (0-1),(0-2)
OK		OK
Difference	Parameter scope is different.	

2.5.19 AT+CHFA

SIM300		SIM900
AT+CHFA=?		AT+CHFA=?
+CHFA:		+CHFA:
(0 = NORMAL_AUDIO, 1=AUX_AUDIO)		(0 = NORMAL_AUDIO, 1 =
OK		HEADSET_AUDIO, 2 =
		HANDFREE_AUDIO)
		OK
Difference	Parameter scope is different.	

2.5.20 AT+CLTS

S	IM300		SIM900
AT+CLTS			AT+CLTS = <mode></mode>
+CLTS: <timestamp></timestamp>			OK
ОК			
D	Difference	Write command is different.	



2.5.21 AT+CBTE

SIM300		SIM900
Not support this command.		AT+CBTE?
		+CBTE: < voltage>
		ОК
Difference	SIM300 does not supp	ort this command.

2.5.22 AT+CALS

SIM300	SIM900
Not support this command.	AT+CALS=?
	+CALS: (list of supported < n >s)
	OK
Difference SIM300 does not sup	port this command.



2.6 AT Commands for GPRS Support

2.6.1 AT+CGDCONT

SIM300		SIM900
AT+CGDCONT=?		AT+CGDCONT=?
+CGDCONT: (1-10),"IP",,,(0,1),(0,1)		+CGDCONT: (1-3),"IP",,,(0),(0)
ок		ОК
Difference	Parameter type and	scope are different. In sim900, CID 3 context is
	locked and defined by system. It can not be changed by user.	

2.6.2 AT+CGQMIN

SIM300		SIM900
AT+CGQMIN?		AT+CGQMIN?
+CGQMIN: 1,0,0,0,0,0		+CGQMIN: 3,0,0,0,0,0
OK		OK
Difference	Default value is different.	

2.6.3 AT+CGQREQ

SIM300		SIM900
AT+CGQREQ?		AT+CGQREQ?
+CGQMIN: 1,0,0,0,0,0		+CGQREQ: 1,0,0,0,0,0
		+CGQREQ: 2,0,0,0,0,0
OK		+CGQREQ: 3,0,0,3,0,0
		OK
Difference	Return value is different.	

2.6.4 AT+CGACT

SIM300	SIM900
AT+CGACT=?	AT+CGACT=?
+CGACT: (0-1)	+CGACT: (0,1)
ОК	OK



AT+CGACT?	AT+CGACT?	
+CGACT: 1,0	+CGACT: 1,0	
	+CGACT: 2,0	
OK	+CGACT: 3,0	
	OK	
AT+CGACT= <state>,<ci< td=""><td>> AT+CGACT=[<state> [,<cid>]]</cid></state></td></ci<></state>	> AT+CGACT=[<state> [,<cid>]]</cid></state>	
AT+CGACT=0,1	AT+CGACT=0,1	
OK	OK	
NO CARRIER		
Difference Pa	Parameter type, scope and format are different.	

2.6.5 AT+CGDATA

SIM	1300	SIM900
AT+CGDATA=?		AT+CGDATA=?
+CGDATA: "PPP"		+CGDATA: ("PPP")
OK		OK
Difference	In SIM300, CGDATA	A command is not used. In SIM900, CGDATA
	command is used for o	certification test, such as GCF, PTCRB.

2.6.6 AT+CGPADDR

SIM300		SIM900
AT+CGPADDR=1		AT+CGPADDR=1
+CGPADDR: 1,"010.079.030.161"		+CGPADDR: 1, "10.78.90.61"
OK		OK
Difference	IP address format is different.	

2.6.7 AT+CGCLASS

SIM300	SIM900
AT+CGCLASS=?	AT+CGCLASS=?
+CGCLASS: ("A","B","CG","CC")"	+CGCLASS: ("B","CC")
OK	ОК



AT+CGCLASS="CC		
OK		
Difference	Parameter scope is different.	

2.6.8 AT+CGEREP

SIM300	SIM900	
AT+CGEREP=?	AT+CGEREP=?	
+CGEREP: (0-1)	+CGEREP: (0-2),(0-1)	
ОК	ОК	
Difference Parameter scope is d	Parameter scope is different.	

2.6.9 AT+CGREG

SI	M300	SIM900
AT+CGREG=1		AT+CGREG=1
OK		OK
		AT+CGREG=2
		OK
		AT+CGREG?
		+CGREG: 2,1,"1816","F251"
		OK
Difference	Parameter scope is different. SIM900 has enhanced function.	

2.6.10 AT+CGSMS

	SIM	1300	S	SIM900
	AT+CGSMS?		AT+CGSMS?	
	+CGSMS: 3		+CGSMS: 1	
1				
	OK		OK	
	Difference	Default setting is diffe	rent.	

2.6.11 AT+CGCOUNT

SIM300	SIM900	
GT 5000 GT 5000 ATTG GOATDA DYGON VIA 04	22	= 10 10 04 0



SIND 00_SIND 00 III C comparison		
AT+CGCOUNT=?		
+CGCOUNT: (0-4),(1-	-10),(1-65535)	
OK		
Difference	SIM900 does not support it.	



2.7 AT Commands for TCPIP Application Toolkit

2.7.1 AT+CIPSTART

SIM900
AT+CIPMUX=1
AT+CIPSTART=?
+CIPSTART:
(0-7),("TCP","UDP"),"(0,255).(0,255).(0,255).(
0,255)'',(0,65535)
+CIPSTART:
(0-7),("TCP","UDP"),("DOMAIN
NAME''),(0,65535)
OK
AT+CIPSTART="TCP","116.228.221.51",701
9
OK
AT+CIPSTART="TCP","www.baidu.com","8
0''
OK
different and SIM900 does not need to use
o set domain type. SIM900 can recognize IP
name automatically.

2.7.2 AT+CIPSEND

SIM300	SIM900
AT+CIPMUX=0	AT+CIPMUX=0
AT+CIPSEND=?	AT+CIPSEND=?
+CIPSEND= <length></length>	+CIPSEND: <length></length>
OK	ОК
AT+CIPMUX=1	AT+CIPMUX=1
AT+CIPSEND=?	AT+CIPSEND=?
+CIPSEND=(0-9), <length></length>	+CIPSEND: (0-7), <length></length>
OK	OK



SIM900_SIM300 ATC comp	arison A company of SIM Tech
Not have read comman	d AT+CIPMUX=0
	AT+CIPSEND?
	+CIPSEND:1380
	ОК
	AT+CIPMUX=1
	AT+CIPSEND?
	+CIPSEND: 0,0
	+CIPSEND: 1,0
	+CIPSEND: 2,0
	+CIPSEND: 3,0
	+CIPSEND: 4,0
	+CIPSEND: 5,0
	+CIPSEND: 6,0
	+CIPSEND: 7,0
	ОК
Difference	Response is different and SIM900 supports read command.

2.7.3 AT+CIPCLOSE

SIM300	SIM900
Not have write command	AT+CIPMUX=0
	AT+CIPCLOSE=0
	OK
	AT+CIPMUX=1
	AT+CIPCLOSE=1
	OK
	AT+CIPCLOSE=6,0
	OK
	AT+CIPCLOSE=6,1
	OK



Difference Parameter type is different and SIM900 supports write command.

2.7.4 AT+CLPORT

SIM300		SIM900
AT+CLPORT?		AT+CLPORT?
TCP: 2020		TCP: 0
UDP: 3030		UDP: 0
OK		OK
Difference	Parameter initial value is different.	

2.7.5 AT+CIPSTATUS

SIM300	SIM900	
AT+CIPMUX=1	AT+CIPMUX=1	
AT+CIPSTATUS	AT+CIPSTATUS	
+CIPSTATUS: 0,'''','''',	OK	
+CIPSTATUS: 1,'''','''',		
+CIPSTATUS: 2,''',''',	STATE: IP INITIAL	
+CIPSTATUS: 3,'''','''',		
+CIPSTATUS: 4,'''','''',	C: 0,,"","","","INITIAL"	
+CIPSTATUS: 5,''',''',	C: 1,,"","","INITIAL"	
+CIPSTATUS: 6,'''','''',	C: 2,,"","","INITIAL"	
+CIPSTATUS: 7,''',''',	C: 3,,"","","","INITIAL"	
+CIPSTATUS: 8,'''','''',	C: 4,,"","","INITIAL"	
+CIPSTATUS: 9,'''','''',	C: 5,,"","","","INITIAL"	
OK	C: 6,,"","","","INITIAL"	
	C: 7,,"","","INITIAL"	
Difference Ex	Difference Execution command response is different.	

2.7.6 AT+CDNSCFG

SIM300		SIM900
AT+CDNSCFG=?		AT+CDNSCFG=?
OK		+CDNSCFG: ("Primary DNS"),("Secondary
		DNS")
		OK
Difference	Test command respon	se is different.



2.7.7 AT+CDNSGIP

SIM300	SIM900
AT+CDNSCFG?	AT+CDNSCFG?
PrimaryDns:211.136.112.50	PrimaryDns:211.136.112.50
SecondaryDns:211.136.20.203	SecondaryDns:211.136.20.203
OK	OK
AT+CDNSGIP="www.baidu.com"	AT+CDNSGIP="www.baidu.com"
OK	OK
ERROR	+CDNSGIP: 0,14
Difference Performance of SIM900 is better than SIM300	

2.7.8 AT+CDNSORIP

SIM300		SIM900
AT+CDNSORIP=?		Not have this command
+CDNSORIP: (0-IP	ADDR,1-DOMAIN	
NAME)		
OK		
AT+CDNSORIP?		
+CDNSORIP: 0		
OK		
Difference	SIM900 does not supp	ort this command

2.7.9 AT+CIPATS

SIM300	SIM900
AT+CIPATS=?	AT+CIPATS=?
+CIPATS:(0-NOT AUTO SEND,1-AUTO	+CIPATS: (0-NOT AUTO SEND,1-AUTO
SEND)	SEND),(1-100)
OK	OK
AT+CIPATS?	AT+CIPATS?
+CIPATS: 0	+CIPATS: 0,0
OK	OK



Difference Parameter type is different.

2.7.10 AT+CIPSERVER

SIM300		SIM900
Not have test comman	ıd	AT+CIPSERVER=?
		+CIPSERVER: (0-CLOSE SERVER,1-OPEN
		SERVER),(1,65535)
		OK
Not support write con	nmand	AT+CIPSERVER=1,"2020"
		OK
		AT+CIPSERVER=0 (close server)
AT+CIPSERVER		Not have execution command
OK		
SERVER OK		
Difference	Parameter type and	scope are different; performance of SIM900 is
	better than SIM300.	

2.7.11 AT+CIPCSGP

SIM300		SIM900
AT+CIPCSGP=?		
+CIPCSGP: 0-CSD,D	IAL NUMBER,USER	AT+CIPCSGP=?
NAME,PASSWORD,F	RATE(0,3)	+CIPCSGP: (0-CSD,DIAL NUMBER,USER
+CIPCSGP:1-GPRS,A	APN,USER	NAME,PASSWORD,RATE(0-3)),(1-GPRS,AP
NAME,PASSWORD		N,USER NAME,PASSWORD)
ОК		ОК
AT+CIPCSGP?		AT+CIPCSGP?
+CIPCSGP: 1		+CIPCSGP: 1,"CMNET","",""
ОК		ОК
Difference Performance of SIM900 is better than SIM300.		00 is better than SIM300.



2.7.12 AT+CIPCCON

SIM300		SIM900
AT+CIPCCON=?		Not support this command
+CIPCCON: (1-CLIE	NT,2-SERVER)	
OK		
AT+CIPCCON?		
+CIPCCON: 1		
OK		
Difference	SIM900 does not supp	oort this command.

2.7.13 AT+CIPFLP

SIM300		SIM900
AT+CIPFLP=?		Not support this command
+CIPFLP: (0,1)		
OK		
AT+CIPFLP?		
+CIPFLP: 1		
OK		
Difference	SIM900 does not suppo	ort this command.

2.7.14 AT+CIPDPDP

SIM300	SIM900
AT+CIPDPDP=?	AT+CIPDPDP =?
+CIPDPDP:(0-NOT SET DE	PDP,1-SET +CIPDPDP: (list of supported< mode>s, list of
DET PDP)	supported < interval>, list of supported < timer
	>)
OK	
AT+CIPDPDP?	OK
+CIPDPDP: 1, 10, 3	
OK	
Difference Parame	ter scope is different.



2.7.15 AT+CIPCCFG

SIM300		SIM900
AT+CIPCCFG=?		AT+CIPCCFG=?
+CIPCCFG:		+CIPCCFG:
(NmRetry:3-8),(WaitTm:2-10),(SendSz:256-		(NmRetry:3-8),(WaitTm:2-10),(SendSz:1-1460)
1024),(esc:0,1)		,(esc:0,1)
OK		OK
Difference	Parameter scope is dif	fferent.

2.7.16 AT+CIPSHOWTP

SIM300		SIM900
RECV FROM:116.228.221.51:7019		RECV FROM:116.228.221.51:7019
+IPD4TCP:nnnn		
		+IPD,4,TCP:nnnn
Difference	Response is different.	

2.7.17 AT+CIPQSEND

SIM300		SIM900
Not support this comm	nand	AT+CIPQSEND=?
		+CIPQSEND: (0,1)
		OK
		AT+CIPQSEND?
		+CIPQSEND: 1
		OK
		AT+CIPQSEND=1
		OK
Difference	SIM900 adds this com	mand.

2.7.18 AT+CIPACK

SIM300	SIM900



BINIS OU_BINIC OUT IT C COM		
Not support this comm	nand	AT+CIPACK=?
		ОК
		AT+CIPMUX=0
		AT+CIPACK
		+CIPACK: 20,20, 0
		ок
		AT+CIPMUX=1
		AT+CIPACK=0
		+CIPACK: 43, 43, 0
		ОК
Difference	SIM900 adds this com	mand.

2.7.19 AT+CIPMUX

SIM300	SIM900
AT+CIPMUX=0	AT+CIPMUX=0
AT+CIPSEND=?	AT+CIPSEND=?
+CIPSEND= <length></length>	+CIPSEND: <length></length>
OK	OK
AT+CIPMUX=1	AT+CIPMUX=1
AT+CIPSEND=?	AT+CIPSEND=?
+CIPSEND=(0-9), <length></length>	+CIPSEND: (0-7), <length></length>
OK	OK
Not have read command	AT+CIPMUX=0
	AT+CIPSEND?
	+CIPSEND:1380
	OK
	AT+CIPMUX=1
	at+cipsend?
	+CIPSEND: 0,0
	+CIPSEND: 1,0
	+CIPSEND: 2,0



DIMITOU_DIMITOU AT C COIL	Sat 15011	
	+CIPSEND: 3,0	
	+CIPSEND: 4,0	
	+CIPSEND: 5,0	
	+CIPSEND: 6,0	
	+CIPSEND: 7,0	
	ОК	
Difference	Response is different and only SIM900 supports AT+CIPSEND?	

2.7.20 AT+CIPUDPMODE

SIM300		SIM900
Not support this command.		AT+CIPUDPMODE=?
		+CIPUDPMODE:
		(0-2),("(0,255).(0,255).(0,255).(0,255)"),(1,6553
		5)
		OK
Difference	SIM300 does not support this command.	



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