

SIM908 SIM900 Common AT Commands

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Introduction

SIM908 and SIM900 have the auto baudrate detect function, can support baudrate from 1200-115200, so you can use any baudrate in this range, the first data send from SIM IC will be like random error data that can be ignored.

Common AT Commands

Command	Description	Return	Result
AT+CPIN?	check sim card status	+CPIN:READY	Sim card is found
AT+CSQ	check signal quality	+CSQ:30,0	30 is the quality of signal, max at 31
AT+COPS?	check card service provider	+COPS:0,0,"CHINAMOBILE" or empty	CHINAMOBILE is the service provider
AT+CGMI	Check the module maker	SIMCOM_Ltd	Made by simcom
AT+CGMM	Check the module model type	SIMCOM_SIM900A	SIM900A
AT+CGSN	Check the module IMEI, worldwide unique	869988012018905	869988012018905
AT+CNUM	Check the number of current sim card, not all kinds of card support this function	+CNUM:"","15902020353",129,7,4	phone number 15902020353
AT+ATE1	on/off AT commands return info	send either ATE0 or ATE1	-

Calling and DTMF

Command	Description	Return	Result
ATD+number;	don't forget the ";" after AT commands, for example "ATD+18576608994;"	OK	-
ATA	answer the incoming phone call	OK	-
ATH	hangoff current phone call	OK	-
AT+COLP	show up the calling number	+COLP:"10086",129,"",""	-
AT+CLIP	sown up the number of incomming call	+CLIP:"15124532672",161,"","ain",0,	-
AT+VTS=*	send DTMF audio. for example, when we call the service provider number and need the press number 1 for operation, you can do AT+VTS=1	-	-

SMS

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Command	Description	Return
AT+CNMI	Set the new message remind, for example AT+CNMI=2,1,	+CMTI:"SM",2
AT+CMGF	Set the module message mode, set either at PDU(0) or text mode(1)	OK
AT+CSCS	Set TE character set, set AT+CSCS="GSM" for english only message, or set AT+CSCS="UCS2" for other lanuage	OK
AT+CMGR	read message, for exmple, AT+CMGR=1 to read message at position 1	-
AT+CMGS	send message, send 180 bytes at GSM mode, or 70 Chinese character at UCS2 mode, AT+CMGS="18576608994"	will return ">" and then type message, then end up with hex value 1A(0X1A, "CTRL+Z"), send 1B to cancel "ESC"
AT+CMGS (e.g. Chinese SMS)	set AT+CMGR=1; AT+CSMP=17,167,2,25; AT+CSCS="UCS2" now the message can be by Unicode, AT+CMGS="00310035003100320034003500330032003600370032" (number 15124532672)	will return ">" and then type message 00530049004D00390030003000414E2D82F1658777ED4FE153D190016D4B8 end with 1A
AT+CMGD	delete message, to delete message at postion 1: AT+CMGD=1	OK
AT+CPMS	inquiry or set message storage settings	AT+CPMS? to check how many message can be stored maximally and how man message stored

General read SMS steps

```
AT+CMGF=1
AT+CSCS="GSM"
AT+CNMI=2,1 // set new message remind
AT+CMGR=2 // read message at position 2
AT+CMGD=2 // delete SMS at position 2
```

General send SMS steps

```
AT+CSCS="GSM"
AT+CMGF=1
AT+CMGS="18576608994"
>
```

Send Chinese sms

```
AT+CMGF=1
AT+CSMP=17,167,2,25
AT+CSCS="UCS2"
AT+CMGS="00310035003100320034003500330032003600370032"
>
```

GPRS

Command	Description	Return	Result
AT+CGCLASS	support type B and CC,	-	-
AT+CGDCONT	set PDP, e.g. AT+CGDCONT=1,"IP","CMNET", sign 1, internet protocol (IP) and connecting port CMNET	-	-
AT+CGATT	attach or disattach GPRS service, AT+CGATT=1	-	-
AT+CIPCSGP	set CSD or GPRS link mode, AT+CIPCSGP=1,"CMNET", set GPRS link and connecting port CMNET	-	-
AT+CLPORT	set TCP local port, AT+CLPORT="TCP","8888", port at 8888	-	-
AT+CIPSTART	initiate a connect or setup a UDP port, AT+CIPSTART="TCP","180.120.52.222","8086", connect to 180.120.52.222 at port 8086	CONNECT OK	-
AT+CIPSEND	send data, module will return ">", send max 1352 bytes and end up with 1A same as sms	SENDOK	-
AT+CIPSTATUS	check module current connection status	-	-
AT+CIPCLOSE	close current TCP/UDP connection, AT+CIPCLOSE=1	OK	-
AT+CIPSHUT	close mobile scene	-	-

General command steps

```
AT+CGCLASS="B"
AT+CGDCONT=1,"IP","CMNET"
AT+CGATT=1
AT+CIPCSGP=1,"CMNET"
AT+CLPORT="TCP","2000" or AT+CLPORT="UDP","3000"
AT+CIPSTART="TCP","180.120.52.222","8086" or AT+CIPSTART="UDP","180.120.52.222","8086"
AT+CIPSEND
>
AT+CIPCLOSE=1
AT+CIPSHUT
```

Working with internet domain, and receive data

```
AT+CIPMUX=0 // single link mode
AT+CIPRXGET=1 // manually get data, set at 0 to automatically retrieve and display data.
```

```
AT+CIPQRCLOSE=1 // speed up remote disconnection?
AT+CIPMODE=0 // not transparent TCP/IP mode
AT+CIPSTART="TCP","yixin1111.eicp.net",8080
AT+CIPSEND
>
```

Other Commands

Basic	Command Group	Enquery	Write Command	Parameters	Remark and example
AT+CMEE	profile	AT+CMEE?	AT+CMEE=2	1: use only error number code; 2: More verbose details of errors;	For #2, you can see for example: +CME ERROR: SIM not inserted (Command: ATD13725585994;)
AT+IPR	profile	AT+IPR?	AT+IPR = 9600	9600, 115200, etc	serial port baud rate
AT+CFUN	profile	AT+FCUN?	AT+IPR = 1	0=minimum Phone Functionality, 1= Full Phone Functionality, 4=disable RF circuits	Set Phone Functionality

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