2 New Features

The following table list features or AT commands new developed compare to preceding firmware release, version 1008B13SIM300D32_SST34HF3284.

Item/Category	Brief description
1	Add AT+CCALR command to query if the status is call ready.
2	Add the function of fetch DNS automatically. Add read command on AT+CDNSCFG.

3   Improved Features

The following table list features or parameters that have been changed or improved compare to preceding firmware release, 1008B13SIM300D32_SST34HF3284.

Item/Category	Brief description
1	Revise bugs that STK call error caused by shielding a signal.
2	Modify the display information of under voltage and over voltage.
3	Appoint the battery to 850mA to solve the problem of reading battery capacity failed on AT+CBC command
4	Appoint the UNDER-TEMPERATURE warning to -30@. UNDER-TEMPERATURE shutting down to -35 @.OVER-TEMPERATURE warning to 80@.OVER-TEMPERATURE shutting down to 85@ **0**
5	Revise bugs that set time parameter of call forwarding command CCFC out of range returns OK but no effect.
6	Revise bugs that switching calls in multi-party by AT+CHLD=2X sometimes returns error.
7	Revise bugs on AT+CMUT command about no effect.
8	Revise bugs that set DNS by AT+CDNSCFG no effect
9	Revise bugs that return BUSY very slowly when the call from local is reject or remote is busy.
10	Revise bugs that delete phone book entry by AT+CPBW, returns wrong information when index out of range.
11	Revise bugs that no quit char on AT+CIPSEND command, add escape for it.
12	Revise bugs that can not establish one more call when there are two or three calls exist. And if there are two calls exist, one is hold and another one is active, the module will no response after one more call dialed.
13	Revise bugs that ATZ and AT&F command can not restore the original value of +CSNS after sending FAX.
14	Revise bugs that when AT+CSNS=2, a voice call incoming, AT+CRC query the status returns FAX while AT+CLCC query the status returns DATA.
15	Revise bugs that after executing AT+CGDATA="PPP", 1 and returns NO CARRIER, serial no response.
16	Revise bugs that switch into command mode by DTR returns ERROR, and can not switch back to data mode by ATO command.
17	Modify the net light blinking frequency according to hardware specification.
18	Revise bugs that execute AT+CSMS=0 after GPRS connected will return

	ERROR.
19	Revise bugs that AT+CKPD command can only dial one call.
20	Revise bugs that push the answer button of headphone can not connect the incoming call after executing AT+CEXTBUT command.

2 New Features

The following table list features or AT commands new developed compare to preceding firmware release, version 1008B14SIM300D32_SST34HF3284.

Item/Category	Brief description
1	Add function: enter slow clock in standard mux, after waking up module with URC could enter slow clock automaticly
2	Add function: Transparent transfer server.
3	Add AT+CIPSHOWTP command
4	Add AT+CIPSCLK command

3   Improved Features

The following table list features or parameters that have been changed or improved compare to preceding firmware release, 1008B14SIM300D32_SST34HF3284.

Item/Category	Brief description
1	Revise bug: In multi-party, original call while remote is busy, execute ATH after BUSY displayed returns invalid value.
2	Revise bug: In mux mode, missing flag 0xF9 sometimes.
3	Revise bug: write phone book with AT+CPBW command, can not write into first free entry while parameter index is empty.
4	Revise bug: setting parameter sendSz of AT+CIPCCFG command ineffectively.
5	Modify parameter waitTm of AT+CIPCCFG command as duration of no data from serial port.
6	Revise bug: Transfer large data block in transparent mode returns TCP ERROR:18.
7	Revise bug: TCP server can not receive data while being TCP server and UDP client simultaneously.
8	Revise bug: Query call status with AT+CLCC command returns invalid informations between CSD, CSV and FAX connections.
9	Modify RI control: RI change caused by incoming call and SMS is default status. RI change caused by other URC is controlable within AT+CFGRI command.
10	Revise bug: No MORING returns while calling a CDMA number.
11	Revise bug: Transparent transfer slowly.Change default value of the third parameter of AT+CIPCCFG command to 1024.
12	Revise bug: After closing TCP server, execute AT+CIPCCON command returns error.
13	Revise bug: Simulating two channel that one is AT channel, the other is GRPS data channel. When connecting the net and received some short messages, the AT channel does not work.
14	Revise bug: When in TCP connecting, the module can go into the Sleep Mode.
15	Revise bug: When using "AT+CHLD=", the module will return OK.
16	Revise bug: When the short message is full, continue writing the short message, and the response of the module is not correct.
17	Revise bug: When the module sends the CALL READY, and set AT+CFUN=0, the result of "AT+CCALR" will not change.

18	Revise bug: When incoming call and edit the short message, the automatically answering the call will not take effect.
19	Revise bug: Unionize the show of power down alarm.
20	Revise bug: Modify the "AT+CKPD" command
21	Revise bug: Solve that sometimes the serial will send error message and add some protects to the flash.
22	Revise bug: Remove the redundant line when using "at+calarm?" and "at+moring=?"
23	Revise bug: the third parameter of the command "AT+CCWA=,,," is 3 or 8, the setting will success.
24	Revise bug: the parameter of the command "AT+CPWD=" is null, the setting will success.
25	Revise bug: the parameter of the command "AT+CMUX=" is null, the setting will success.
26	Revise bug: When the module sends "SEND FAIL", the module still can receive data.
27	Revise bug: Perfect the "AT+CMUT" function.
28	Revise bug: At the end of point to point transparent transmission, still to send data, and the module will return TCP ERROR:3.
29	Revise bug: When transparent transmit a lot of datum, the module will return TCP ERROR:18.
30	Revise bug: After the establishment of CSD mode TCP connecting, at the STATE: PDP DEACT mode, the module can receive data but can not send data.
31	Revise bug: When using the dynamic socket to establish the TCP connect, using the "AT+CLPORT" to query, and the socket number is smaller than the fact socket number.
32	Revise bug: When the parameter of "AT+CGDCONT" is illegal, the setting will success.
33	Revise bug: When the parameter of "AT+CIPATS" is 0, the data can not be sent.
34	Revise bug: Perfect the PF function.
35	Revise bug: When set AT+MORING=1 and dial the fix phone, the module will send two "MO RING" to the serial port.
36	Perfect the TCP data receive mechanism
37	Revise bug: When the TCP is passively disconnected, it is chaos.
38	Revise bug: When use domain name to connect TCP, if the first time use along error domain name, and next use the correct domain name, the module will not connect successfully.
39	Revise bug: When using AT+CIPSERVER, automatically to get DNS but

	cannot parse domain name.
40	Revise Bug: When using not fixed socket to connect TCP, the module can close TCP and use FIN.

3 Improved Features

The following table list features or parameters that have been changed or improved compare to preceding firmware release, 1008B15SIM300D32_SST34HF3284.

Item/Category	Brief description
1	Fix a bug +CHLD=2 can not accept any one when there are two calls and one is waiting, one is hold.
2	Fix the bug: the result code of "CLOSED" may showed before the receive of TCP data when TCP connection is closed passively
3	Pull down the RING connector before receiving TCP/UDP data or TCPIP URC.
4	Perfect the result code shown after module power-on.
5	Fix a bug: the execution of "AT+CSMP=17＄167＄0＄25" as same as writing long SMS under TEXT/GSM mode may cause the module don't response to the AT command.
6	Extend emergence call number list. They are 112,128,180,181,190,191,192,193,194,197,198,199,000,110,118,119,999,112,911,08 now.
7	Fix a bug: press the power-key over 10 seconds may cause the module power-down.
8	Fix a bug: after build a UDP connection, there may be a "UDP CONNECTING" show when using AT+CDNSGIP to get domain address.
9	Fix a bug: in the mode of transparent transmit, AT+CIPSHUT can not shut down the PDP connection immediately.
10	Fix a bug: after dialing a call which is busy, dial a normal call and the called number does not pick up the call and this time we disconnect the call with ATH ,there will be a show "NO CARRIER"
11	Modify the response of the power off alarm. The response will be: RDY ALARM MODE +CFUN: 0
12	Fix a bug: the error indication is not correct if the name is too long when writing the phone book.
13	Adding some extended reports of the reason for the last call release when query the error reports using AT+CEER.
14	Fix a bug: when connected in mode of CSD, an incoming call is disconnected by the other party may also cause the CSD disconnected.

15	Modify the time before and after"+++" into 500ms.
16	Fix a bug: the module return error after the execution of "AT+CIPATS=1", but the parameter still changed.
17	Fix a bug: the SMS may fail to save in the module if the amount of SMS is over 10.
18	Perfect the code of "AT+CPWD"
19	Fix a bug: hang up the call by "ATH" after call 112, the module may return "NO CARRIER"
20	Fix a bug: there are error when using AT+CSMP to change the value of csmp in case of power-on but the module have not fully initialized
21	Fix a bug: can not setting <cid> when using ATD*99***<cid>#.
22	Fix a bug: there are error when setting AT+CSMP with an invalid value.
23	Fix a bug: ATH may cause the error of "SEND FAIL" after building a TCP connection in CSD function.
24	Modify the result code of "AT+CGDCONT=1,"IP_V6","CMNET"" to "+CME ERROR: 625"
25	Modify the result code of AT+CPBW if the number is not complete.
26	Fix a bug: dial ATD*99# then execute ATD*99# after building a TCP connection may cause the TCP error.