



2 New Features

The following table list features or AT commands new developed compare to preceding firmware release, version 1008B15SIM300M32_SST34HF3284.

Item/Category	Brief description
1	Add the function of fetch DNS automatically. Add read command on AT+CDNSCFG
2	Add function: enter slow clock in standard mux, after waking up module with URC could enter slow clock automaticly
3	Add function: Transparent transfer server.
4	Add AT+CIPSHOWTP command

3 Improved Features

The following table list features or parameters that have been changed or improved compare to preceding firmware release, 1008B15SIM300M32_SST34HF3284.

Item/Category	Brief description
1	Revise bugs that STK call error caused by shielding a signal.
2	Revise bugs that set CMUT as 1 when there is no call exist,the set CMUT as 1 afeter a call connected no effect
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 when set as 1 after set in last call.
8	Revise bugs that when AT+CSNS=2, a voice call incoming, AT+CRQ query the status returns FAX while AT+CLCC query the status returns DATA.
9	Modify COPN return information format according to ATC document.
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 query call status in multi-party with CLCC returns invalid information.
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+CEXBUT command.
21	Change the parameter of AT+CIPMODE command from TCP NORMAL MODE to TRANSPARENT MODE
22	Revise bug: In multi-party, original call while remote is busy, execute ATH after BUSY displayed returns invalid value.
23	Revise bug: In mux mode, missing flag 0xF9 sometimes.
24	Revise bug: write phone book with AT+CPBW command, can not write into first free entry while parameter index is empty.
25	Revise bug: setting parameter sendSz of AT+CIPCCFG command ineffectively.
26	Modify parameter waitTm of AT+CIPCCFG command as duration of no data from serial port.
27	Revise bug: Query call status with AT+CLCC command returns invalid informations between CSD, CSV and FAX connections.
28	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.
29	Revise bug: No MORING returns while calling a CDMA number.
30	Revise bug: Transparent transfer slowly. Change default value of the third parameter of AT+CIPCCFG command to 1024.
31	Revise bug: After closing TCP server, execute AT+CIPCCON command returns error.
32	Revise bug: Setting band in india network causes can not register to network.
33	Revise bug: Call disconnect by remote, CMUT still set as 1.
34	Revise bug: ATD17201, not send +++ to remote server when switch to command mode with +++

2 New Features

The following table list features or AT commands new developed compare to preceding firmware release, version 1008B16SIM300M32_SST34HF3284.

Item/Category	Brief description
1	Add function: switch into low consuming while keep TCP being connected
2	Add AT+CIPSCLK for enabling if module could switch into low consuming mode while keep TCP being connected.

3 Improved Features

The following table list features or parameters that have been changed or improved compare to preceding firmware release, 1008B16SIM300M32_SST34HF3284.

Item/Category	Brief description
1	Revise bug: Execute AT+CHLD= command returns OK, and switches holding call into active state, execute again does not hold active call.
2	Revise bug: Can not get default text when STK get input.(need user confirm)
3	Revise bug: In mux mode, access internet with both AT channel and GPRS data channel, AT channel does not work for AT command after receiving several messages.

3 Improved Features

The following table list features or parameters that have been changed or improved compare to preceding firmware release, 1008B17SIM300M32_SST34HF3284.

Item/Category	Brief description
1	Fixed the bug that there are multiple blank lines in the response of “AT+CALARM?” and “AT+MORING=?”
2	Fix the bug that it doesn’t need to unlock after lock PS and PF by PIN and it is failed to unlock PS when not set PS by PIN.
3	Fixed the bug that it is OK to set PF and PS with single quote.
4	Fix a bug about multiple calls. After multiple call established, dial a busy call, the module prompt “BUSY”, then the module will always prompt “BUSY” when use “AT+CHLD=1x” to hang up all the calls one by one.
5	Fix a bug about CCWA. It is also OK to process “AT+CCWA=...” and the third parameter is set as 3 or 8.
6	Fix the bug that it is also OK to set an empty password by AT+CPWD. And Modify the prompt for wrong password when use AT+CPWD to change the PS to “+CME ERROR:16”
7	Fix the bug that it is also OK to process “AT+CMUX=”.
8	Fix the bugs about SEND FAIL.
9	Fix the bug that it is failed to redial by AT+CKPD=”R”
10	Fix the bug for concatenated SMS including some special characters, such as characters losing and reset.
11	Fix the bug that It probably return “TCP ERROR:3” when send data to the remote in transparent TCP connection after the CIPCCON has been set as 2.
12	Fix the bug that it probably to prompt “TCP ERROR:18” when send mass data in transparent TCP connection.
13	Fix the bug that there isn’t status indication for some status.
14	Fix a bug about TCPIP. When establish a TCP connection based on CSD, It may be successful to receive data while the state is changed “PDP DEACT” and it will prompt “SEND FAIL” when send data in the circumstance.
15	Fix a bug about TCPIP. After establish a TCP connection by a long wrong domain name, it will be failed to establish a TCP connection by a right domain name.
16	Fix the bug that the result of “AT+CLPORT?” is one less than the real port when establish TCP connection with dynamic port.
17	Fix the bug that the module still return OK even if the parameters for

	AT+CGDCONT=~ are invalid.
18	Fix the bug that it will be unable to send TCP data after process command "AT+CIPATS=1,0"
19	Improve the function of "PF" to unlock PF even if no SIM card is inserted or SIM card is inserted error.
20	Fix the bug that it probably display two "MORING" when dial a PLMN.
21	Fix the bug that the received TCP/UDP data probably insert into some AT data.
22	Fix the bug that happens when TCP connection is closed by the remote. The following is the details. When the module is used as TCP server and TCP client at the same time. Then one connection is closed by the remote, it probably to close another connection.
23	Fix the bug that happens when the module is used as TCP server and TCP client at the same time. The problem in some connection will probably affect the other connection.
24	Fix the bug that it is failed to parse domain name after "AT+CIPSERVER".
25	Modify the realization of AT+CIPCLOSE. The module will close the TCP connection with FIN by AT+CIPCLOSE when AT+CIPFLP was set as 0.
26	<p>Uniform the response after the module power up because of alarm as following.</p> <p>RDY</p> <p>ALARM MODE</p> <p>+CFUN: 0</p>
27	Fix the bug that it is failed to restore any call by AT+CHLD=2 when there are both hold call and waiting call.
28	Fixed the bug that the CLOSED for TCP connection probably prompts before the received TCP data.
29	Add the function to set RI low before TCP/UDP received data or TCPIP URC.

3 Improved Features

The following table list features or parameters that have been changed or improved compare to preceding firmware release, 1008B18SIM300M32_SST34HF3284.

Item/Category	Brief description
1	Fix that when in TEXT/GSM mode, and writing long short message, sending AT+CSMP=17,167,0,25 will let the serial port not work.
2	Optimize the AT data channel
3	Expand the emergency call number
4	Fix that after the UDP connection is established, using AT+CDNSGIP to get the domain name the module will send UDP CONNECTING.
5	In transparent transmission, using CIPSHUT can not disconnect the PDP.
6	Fix that when dial a busy call then dial a normal call and using ATH to disconnect the call, the module will send NO CARRIER
7	Modify the power off alarm URC
8	Fix that when the name of the phone book is too long, the ERROR URC is not correct.
9	Add some URC of AT+CEER.
10	Modify the time of “+++” escape of data mode
11	Fix that when using AT+CIPATS=1 the module return ERROR, the parameter is still set successful.
12	Fix that when storing over 10 short messages, it can not write the short message again.
13	Fix the CRSM error.
14	Modify the radio driver.
15	Enhance the protection of flash.
16	Modify the URC of the modification of CPWD
17	Fix that the URC of using CPBW to modify the number is not correct.
18	Fix that the parameter of CSMP is out of range, the setting is still modified.
19	Modify that when the SIM card is not initialized, using AT+CSMP to modify the parameter, the module will return ERROR, but the value has been modified.
20	Fix that using CIICR to dial, and incoming can not be connected or disconnected.
21	Fix that using CSD to establish the TCP connection, using ATH, the module will send the data and it will return SEND FAIL.
22	Fix that when using AT+CGDCONT=1,"IP_V6","CMNET", the module

	will reset.
23	Remove the space of the result of using AT+AUTEST=?
24	Fix that when dial the busy call, and disconnect it, the module will send NO CARRIER.
25	Fix that the module can not find the SIM card.
26	Fix that when send the short message to 10086, then dial 10086 and disconnect it, sometimes the serial port does not work.
27	Fix that in transparent transmission mode, using CIPSHUT can not disconnect PDP mode.
28	Fix that using AT+CPOWD can not power off.
29	Fix that continuous and fast to run CIPSTART and CIPSHUT, the module go into slow clock mode, the current is still higher than 9mA.
30	Fix that in mux mode, let DTR low can not quit the slow clock mode.

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