



SIM5218A Firmware Release Note

Latest Version: 240150B26SIM5218A_HY

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SIM5218A WCDMA/GSM Cellular Engine

1 Preamble

This Release Note introduces SIM5218A firmware versions and briefly describes the benefits over preceding release. Also you can find differences compared with preceding release.

New Features: list features or AT commands which are newly developed compared with the preceding version.

Improved Features: list features or parameters that have been changed or improved compared with the preceding version.

Related documents

- [1] SIMCOM_SIM5218_Serial_ATC_EN_V1.37.doc
- [2] SIM_DM_ATC_V1.06.doc
- [3] SIM5218A&J_QCT6290_2400.150_120514_V3.04.qcn



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[New Features]

[Improved Features]

1. Add return information after playing the WAV files.
2. Fix the bug about detecting cameras of OV2640 and OV2659.
3. Fix the bug that the screen will shift after video call is answer and continue for a while.
4. Modify the title of AT command about cell assistant location.
5. Modify to TCP server and client can use in the same time under multi client mode.
6. Modify the command of FSDEL to support the parameter format of {non-ascii}"xxxx".



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[New Features]

1. Add LUA debug library.
2. Add the function of managing DEL key with AT+DBC.
3. Add AT+CSCIRPTSTART="filename",2 to transfer debugger.lua automatically to debug the script.
4. Add the test command of AT+CINICMPALLOW=? to the document.
5. Add the function of thread.destroy to destroy the thread structure of lua_state.
6. Add the command of AT+TCPCLOSE.
7. Add the feature of adding date or log on the photo taking by camera.
8. Add the command of AT+CQCPREC=? in the document.
9. Add the command of AT+CVOC in the document.
10. Add the command of AT+CSINGLEPDP.
11. Add the command of AT+CIMNOTCSL.
12. Add the command of AT+CMMSUA.
13. Add the command of AT+ CMMSPROFILE.
14. Add the function that the video stream can output from USB.
15. Add the command of AT+SMTPBCH.
16. Add the command of AT+ SERVERSTART?.
17. Add to support camera OV2659.
18. Add the function of play WAV.

[Improved Features]

1. Fix the bug that it returns '+POP3: FILE SYSTEM ERROR' with executing AT+POP3GET when +FSLOCA=1 using 4G and 8G T card.
2. Modify FTP PUT and GET and add breakpoints transferring.
3. Fix the bug that the returned value of AT+CHTSPSERV? is different from the value describing in the document when <host> is null.
4. Fix the bug that it switched by +++ and ATH was disconnected during WINCE dialing,



- the next time can't access network.
5. Fix the bug that the module reboots with executing the command of CMMSPROTO when the last port parameter is default.
 6. Fix the bug that the return value of AT+FOTAQUERY is different from the one describing in the document.
 7. Fix the bug that it can't not find the camera GT2005 sometimes with AT+CCAMS.
 8. Fix the bug that it returns '+CFTPPUT: 211' when we execute AT+CFTPPUTFILE with parameter <rest_size> and the parameter is greater than 0.
 9. Fix the bug that the returned message is incorrect when the parameter <rest_size> of AT+CFTPGET is equal with the length of the file waiting for GET.
 10. Fix the bug that GPIO2 and GPIO can't save.
 11. Fix the bug that the returned value of AT+FOTASETAGENT is different from the document.
 12. Fix the bug that we have the second call between the first call connected and the DTMF finished, than the first time returns error, the second is successful and the DTMF stops.
 13. Fix the bug that the format of returned value 'VOICE CALL: END:' of AT+CHUP that we executing during the multi-call with DTMF.
 14. Fix the bug that it returns OK and hang up automatically if we have DTMF dial without phone number.
 15. Fix the bug that it repeats to receives when it was receiving DTMF.
 16. Fix the bug that AT+CFTPPUTFILE doesn't begin to resume from the resume required point.
 17. Fix the bug that the format of the returned value of AT+CMMSSEND is incorrect.
 18. Fix the bug that if it sends the same MMS to more than 3 nonexistent long number by AT+CMMSSEND, and then the module reboots if it queries the number of receivers by AT+CMMSRECP.
 19. Fix the bug that it returns error and doesn't clean the distributive memory when AT+CGREG doesn't registered and then it returns error by executing



AT+CHTTPSOPSE.

20. Fix the bug that the bound of <DelayTm> in the returned value of AT+CTCPFIN=? is incorrect.
21. Add the bound of < KeepIdleTm> and <KeepAliveMaxTry> which are the parameters of AT+CTCPKA=? to the document.
22. Fix the bug about <rest_size> of FTP.
23. Fix the bug that the returned value of AT+CHTTPACT executing about nonexistent website is different from the document.
24. Fix the bug that the returned value is incorrect when executing AT+POP3LIST about the specified e-mail.
25. Fix the bug that we execute AT+POP3LIST and the COM blocks.
26. Modify the bug that AT+POP3GET reports unwanted '+POP3: SERVER ERROR' when executing with SINA e-mail.
27. Fix the bug that the return value of AT+POP3NUM is incorrect.
28. Fix the bug that it can't register after unlock PIN when AT+COPS=0 before until it executes AT+CFUN=0/1.
29. Fix the bug that the second parameter will be change to 0 when the <time> is 0 about AT+CGPSINFO.
30. Fix the bug that it returns '+CME ERROR: unknown' when we write phone number with English letter to the phone book by AT+CPBW.
31. Fix the bug that we execute AT+CQCPREC=1,QCP to record QCP audio file during 3G network call but actually it records AMR file.
32. Fix the bug that we record AMR audio file during GSM call and it returns OK but actually it records QCP file.
33. Fix the bug that the STK feature isn't disable but not reported although AT+STK=0.
34. Fix the bug that it can't play audio file for one's own during video call.
35. Fix the bug that the folder 'Email' under C:/ creating by AT+FSMKDIR can't be delete.
36. Fix the bug that we play MP3/WAV/AAC audio file for one's own and it prompts 'it is being played' during video call, but actually there's no sound.



37. Fix the bug that we record the sound of the other side by AT+CQCPREC during a call, but the recording can't stop when the call finished.
38. Fix the bug that we play audio file by CCMXPLAY during a call and finish the call by AT+CHUP, but the audio playing can't stop playing.
39. Fix the bug that audio recording by AT+CQCPREC can be set out of range values.
40. Fix the bug that we record audio file by AT+CQCPREC during a call, but the record can't stop when the call finished. Then we play the record and the part after the call hung up has strident clamor.
41. Add description about <Location Area ID> and <RX Level> of AT+CPSI.
42. Fix the document problem about AT+CUDLOADS.
43. Fix the bug that the return value of AT+CPOL? is different for the document when AT+CPOL is null.
44. Fix the bug that the return value of AT+CGPSINFO? is different from the document.
45. Fix the bug that the return value of AT+CGPSINFO is different from the document.
46. Fix the bug that the default value of AT+CUDLOADS is different from the document.
47. Fix the bug that the location information display nothing when we execute AT+CASSISTLOC form 3G single cell cycle position and <language> set to default value.
48. Fix the bug about binding to port failed when AT++SERVERSTART=<port>.
49. Fix the bug that we have 6 calls by AT+CHLD, and hold the 5 and keep the 1 active, hang up the 5 by AT+CHLD=3 then the COM will be blocked.
50. Fix the bug that all port doesn't respond to AT command after we input AT\$QCDMG by UART.
51. Fix the bug that the AT port can't switch back by +++ after switch to TCP transparent transmission.
52. Fix the bug about switch between TCP client mode transparent transmission and TCP server mode transparent transmission.
53. Fix the bug that it can continue downloading by AT+CFTPGETFILE although there has



- no the file in EFS.
54. Fix the bug that the size of pictures become smaller and can't imaging when the pictures upload to FTP server by AT+CFTPPUT.
 55. Fix the bug that the accepted socket is not close completely when TCPCLOSE.
 56. Fix the bug that the module will be reboot if we execute AT+POP3READ with larger mail.
 57. Fix the bug that the COM sometimes blocks when executing AT+POP3HDR or AT+POP3LIST.
 58. Modify CNTI and add 'HSPA' display.
 59. Fix the bug that if AT+NETOPEN="TCP" it returns CLOSE after TCPCONNECT failed when the TCP server doesn't open or the TCP parameter is wrong.
 60. Fix the bug it doesn't report problems when the STK reports 'STIN:24' twice continuously.
 61. Fix the bug that the DS command buffer is not enough just because the FTFS read events are too much.
 62. Fix the bug that the returned value format of AT+CSVM=? is different from others and the range is different from the document.
 63. Fix the bug that the long time record is probability of failure.
 64. Modify the SMTP code to set the subject, the name of attachment by UTF-8 format as default.
 65. Modify the command of AT+CSQ that it displays 0 when CSQ=99.
 66. Modify the command of AT+ AUTOCSQ that it displays 0 when CSQ=99.
 67. Set the invalid value of AT+CSQ and AT+ AUTOCSQ to 99.



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[New Features]

1. Add the command of AT+CSMP=?.
2. Add the command of AT+CGPSINFO? .
3. Add the command of AT+CGSOCKQREQ.
4. Add the command of AT+CGSOCKQMIN.
5. Add the command of AT+CGSOCKEQREQ.
6. Add the command of AT+CGSOCKEQMIN.
7. Add the command of AT+CTCPKA.
8. Add the command of AT+CPING.
9. Add the command of AT+CPINGSTOP.
10. Add the command of AT+FOTAQUERY.
11. Add the function of ftp.list() API in LUA.
12. Add the command of AT+CENDUPPDP.
13. Add the device of MT9D115 sensor.
14. Add LUA SMS library.
15. Add the command of AT+CUPURE.
16. Add the command of AT+CINICMPALLOW.
17. Add the command of AT+CTEUTP.
18. Add the command of AT*CNTL.
19. Add the command of at+stk.
20. Add LUA MMS library.
21. Add the functions of LUA os.listdir(), os.mkdir() and os.rmdir().

[Improved Features]

1. Fix the bug that the camera GT2005 will stop automatically when recording video in 6 minutes without returned value, and it returns 'CAMERA RECORDING STOPPED FOR FAILURE' when stops abnormally.
2. Fix the bug that the fourth parameter <dcs> will changed after AT+CSMP and reboots.



3. Set the MMS with 'CAN'T EDIT' when initialize.
4. Fix the bug that all of the COM will be blocked after executing 'AT+CHTTPACT="www.wrongurltest.cn",80'.
5. Fix the bug that the POP3LIST displays incompletely.
6. Fix the bug about the first executing AT+CGATT=0 after reboots.
7. Fix the bug that it can take a picture without setting CCAMSEPN and saves without according to the value of +CCAMSETPN?.
8. Fix AT+CPOL? Response value with more empty line.
9. Fix the bug that the other side hold the call, then the module hold the call, but the status getting from AT+CLCC is incorrect after the other side resume the call.
10. Fix the bug that it can't display contact person when reading SMS by CMGR under TEXT UCS2 mode.
11. Fix the bug that it reads all of the SMS by +CMGL then the COM blocks before executing +CNMA.
12. Fix the bug that the received SMS doesn't display when edit the SMS by AT+CMGS.
13. Fix the bug that there's unwanted 'OK' with receiving SMS when CNMI=1,2 and edit the SMS by AT+CMGW.
14. Fix the bug that there are different names with the same number in the phonebook; we have a 64K CSD call by name and the result of executing AT+CLCC is incorrectness .
15. Fix the bug that the module crashes when AT+CMGD=? And the quantity of SMS over 200.
16. Fix the bug that the parameter value of <SUBADDR> of AT+CCFC displays abnormally.
17. Modify the default value of parameter <MAX_BACKOFF> to 10.
18. Fix the bug that the module queries the phonebook immediately then the COM blocks after have a call and the other side hangs up without get it.
19. Fix the bug about CPMS saves as another automatically.
20. Fix the bug that it returns unwanted URC "+CGREG: 1" after undo the PIN.
21. Fix the bug that it returns OK with executing AT+VPRECORD when dialing a video call or having a voice call, and then returns error after have a video phone connection and executing AT+VPRECORD first time.



22. Fix the bug that it tips 'CAMERA RECORDING STOPPED FOR FAILURE' when move the camera during recoding, and then it returns OK and the path name executing AT+CCAMRS again actually didn't record.
23. Fix the bug about AT+CCMXSTOP.
24. Modify the function of INET_SOCKET_CONNECT.
25. Modify the WAITEVT of LUA.
26. Modify the function of INET_SOCKET_CLOSE.
27. Fix the bug about FOTA download.
28. Fix the bug that it doesn't return OK with executing AT+CGATT=0 under WCDMA and it stills register in HSPA.
29. Fix the bug that it returns calling line identification before the first ringing when there's an incoming call after setting AT+CLIP=1.
30. Fix the bug about executing AT+CODEC.
31. Fix the bug that the module reboots when download file sized 500K by +CFTPSGETFILE.
32. Fix the bug that it return OK when dialing a call and don't finish the call when click any key with +COLP=1and +CLCC=1.
33. Fix the bug about CSD connection.
34. Fix the bug that it sends SMS by AT+CMGS then the <MR> is unfaithful after return "+SMS_FULL".
35. Fix the bug that it returns CAMERA INVALID STATE when the camera is open and dial a video phone.
36. Fix the bug that if dialing a second call and it connected, then the other side CHLD the second call, the status of CLCC is uncorrected although executing the CHLD change.
37. Fix the bug about the command of AT+CSCS.
38. Fix the bug that the status will be disordered if executing +++ during establishing the CSD call.
39. Fix the bug about the function of HTP_APP_CLOSE().
40. Fix the bug that it tips 'CAMERA NO SENSOR' after open the camera by AT+CCAMS and get a video call by AT+VPANSWER, and the function of camera is closed after the



call hang up automatically.

41. Fix the bug about the parameter <stat> of AT+CMGW under PUD modem.
42. Fix the bug that the result of POP3IN? is connected and it returns error with executing all of the POP3 command after AT+POP3GET failed.
43. Fix the bug about the command of AT+CIPOPEN.
44. Fix the bug that the COM blocked discontinuously when executing POP3GET with a bigger file.
45. Fix the bug that it returns OK with executing AT+POP3STOP when POP3GET mails and it returns connected from AT+POP3IN?.
46. Fix the bug that the playing audio can't stop automatically when played audio file by CCMXPLAY and stopped the call by AT+CHUP.
47. Fix the bug that the record can't stop automatically after hang up the call.
48. Fix the bug that it can't play audio file during a video call.
49. Extend the format of audio and record.
50. Fix the bug about the command of AT+AUTOANSWER=?.
51. Fix the bug about sending files by UART under CSD modem with COM ELF.
52. Fix the bug about the command of AT+CTCPFIN=?.
53. Fix the bug about the command of AT+CSOCKAUTH.
54. Fix the bug that the speed is unfaithful after setting AT&E0 under 3G modem.
55. Fix the bug that the module reboots when receiving/sending TXT file bigger than 1024 by USB AT COM with COM ELF during CSD call under WCDMA modem.
56. Fix the bug about taking picture and kinescoping.
57. Simply the function of FTP and SIO in LUA.
58. Fix the bug that it returns status to server by AT+FOTASETAGENT after the module upgrades, but it can't return again after failed.
59. Fix the bug that it should not return 'NO CARRIER' after hangs up a CSD incoming call with ATH.
60. Fix the bug about the command of +SIMCARD.



61. Fix the bug about the function of thread.enter_cs() and thread.leave_cs() in LUA.
62. Fix the bug that the returned value contains error when +colp=1;+clcc=1 MO and connected.
63. Fix the bug about the command of AT+SMTPSEND.
64. Fix the bug that it POP3GET mails when the EFS is full, then it can download but no files.
65. Add a parameter <pos> to FILE:TRUNC of LUA.
66. Modify the return value of LUAUTIL_GETTICK().
67. Optimize the image quality of AK8856.
68. Open the feature of FEATURE_ATCOP_CALL_AUTO_DTMF_P3S, FEATURE_OBEX_FLOW_CTRL_ENABLE and FEATURE_ATCOP_PING.
69. Fix the bug that the LUA executes AT+CPBF="dec" and then the COM is blocked.
70. Fix the bug that the COM is blocked sometimes when executing POP3GET mail.



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[New Features]

1. Add three camera sensors of GC0308, GC0309 and GT2005.
2. Add +CODEC command.
3. Add AT+COTADPHONENUMBER command.
4. Add AT+CDNSGHNAME command.
5. Add AT+CFTPSINGLEIP command.
6. Add AT+CCAMTPEXT=? command.
7. Add the URC about WMS_CMD_ERR_MSG_DECODE.
8. Add AT+CTCPFIN command.
9. Add the function of control the stream of AT.
10. Add the function of manage the INETDOWN download data (ftp/http/ftps/https) in the base of controlling the stream of AT.

[Improved Features]

1. Fix the bug that the interface of getting flash information is different from the parameter of CSC6270.
2. Fix the bug about the command of +CMGSEX about sending long SMS.
3. Modify the bug about AT+CMGSEX to check the value of <TODA>.
4. Fix the bug that process satellite positioning when AT+CGPSSSL=1, then switch to AT+CGPSSSL=0 and process satellite positioning one more time, the module reboots.
5. Simplify the head in the log of OTAD.
6. Update the color shading of picture from camera sensor GT2005.
7. Fix the bug that the 64K SIM card reboots.
8. Fix the bug that Vodafone can not send MMS.
9. Fix the bug about AT+NETCLOSE.
10. Modify the command of AT+CFTPSGET and AT+CFTPSLIST.
11. Fix the bug that execute AT+CMMSEDT=0/1 when sending/receiving SMS, then



returned value is inaccurate.

12. Fix the bug about AT+CMMSSAVE.
13. Modify the command about FTP to support FileZilla Server.
14. Delete the file exporting by FTP that used for debug when AT+CLOGF=1.
15. Fix the bug that saving MMS by AT+CMMSSAVE when +CMMSEDT=0, the result is abnormal getting by AT+CMMSVIEW.
16. Modify that when execute AT+CMMSDELETE, delete the old files.
17. Modify the command of AT+CDNSGHNAME.
18. Modify the output of HTTPS READ.
19. Modify that when FTPS entered and free, if the server overtime and cut the connection, then return "+CFTPSNOTIFY: PEER CLOSED".
20. Fix the bug that setting unsuccessfully by AT+CCAMSETN about GC0309 camera sensor.
21. Fix the bug that setting unsuccessfully by AT+CCAMSETWB about GC0309 camera sensor.
22. Fix the bug that can't identify OV7670 camera sensor.
23. Fix the bug that there is no length limit of <stat> when write PDU SMS by +CMGW.
24. Modify that the AUX exports from BOOTLOADER default by USB, and add the interface for UART upgrade.
25. Fix the bug about AT+SMTPBODY.
26. Fix the bug that the video phone only returns <stat>=0 from dialing to getting when AT+CLCC=1.
27. Fix the bug that the return value of video phone without camera is different from the document.
28. Fix the bug about AT+CMMSREAD.
29. Fix the bug that replay audio by AT+CCMXPLAY after paused by AT+CCMXPAUSE and have a call, the audio plays from the pause point but not the head.
30. Fix the bug that it can't replay audio and returns error after paused it by



AT+CCMXPAUSE and had a call.

31. Fix the bug about AT+CIPOPEN=?.
32. Fix the bug that execute AT+CHTTPACT when +CGATT=0, the returned value of error is inaccurate.
33. Fix the bug that CREG and CGREG do not return 0,0 when AT+CFUN=4 or 0.
34. Fix the bug that the SMS with unwanted value after <today> or <length> can also send successfully by +CMGS.
35. Fix the bug that the SMS with arbitrary value after < length > or < msg_total > can also send successfully by + CMGSEX.
36. Fix the bug that the format of sending SMS by +CMGS, CMGSEX is imprecise; the arbitrary value after the telephone number is OK.
37. Fix the bug that the format of AT about SMS is imprecise.
38. Fix the bug that setting by AT+FOTAUIMODE from module isn't effective after upgrade from server.
39. Fix the bug that it has a dialing during a call, hang up all the calls by AT+CHUP when the second call is coming, then the format of returned value is incorrectness.
40. Filtrate the character not in "0123456789*#+".
41. Modify to update the number in the list instantly.
42. Fix the bug that there are different names with the same number in the phonebook; we have a 64K CSD call by name and the result of executing AT+CLCC is incorrectness .
43. Modify to stop the inner checking timer and don't return '+POP3: FILE SYSTEM ERROR' when the space of EFS is lacking.
44. Fix the bug that executing +CFTPSPWD when +CFTPSSLIST didn't return file list then there is a lack of returning +CFTPSSLIST: 0 about file list.
45. Fix the bug that the module reboots when transferring a 5M file to FTP server by AT+CFTPPUT.
46. Modify to wait 10s and close the data session after FTP upload files to ensure all of the data upload successfully.



47. Fix the bug that it prompts repeatedly '+FSCOPY: <percent>' when copy the 0kb file by AT+FSCOPY.
48. Modify the time space between sending data of FTPS/HTTPS successfully twice to 5 minutes.
49. Modify the most delay sending time to 64s when it blocks of FTPS/HTTPS sending.
50. Fix the bug that it returns network error when executing AT+CFTPSgetfile and actually it downloads successfully.
51. Modify to delete the session after the SSL session closes absolutely.
52. Modify that when FTPS Logout it waits 3s to receive the return values of QUIT command, and then close control session.
53. Modify to ignore the middle event about close but wait the final event about close successfully when close FTPS session.
54. Modify the bound to 3-10 and the default value to 10 of the first parameter of AT+CIPCCFG.



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[New Features]

1. Add function of OTAD.

[Improved Features]

1. Fix the bug that operates ATA when there is a waiting call during a call, the call waiting will hang up.
- 2.
3. Fix the bug that there is TCP multiple connection under the G net. Sending data by one of the connections will failed when there is an incoming call, and then other connections return "+IP ERROR:TCP BUSY" when sending data.
4. Fix the bug about +CECSET.
5. Fix the bug that the parameter <index> <delflag>of +CMGD over the scope but return OK.
6. Fix the bug that if make .smil file as accessories of MMS the module will reboot.
7. Fix the bug that when the default value of FOTA Server IP is null, execute AT+FOTASTART, the module will reboot.
8. Modify the MMS function that it can support URL HTTP and URL http.
9. Modify the command of AT+CPLMNWLIST that it can support 20 PLMN at most.
10. Modify the command of AT+CPLMNWLIST that it can limit registration but does not limit urgency call.
11. Modify the command of AT+CPLMNWLIST to lock the network, according to the net or SIM card.
12. Modify the command of AT+SIMCOMATI
13. Modify the command of AT+CIPOPEN and AT+CIPSEND.
14. Modify the size of input buffer to make sure the buffer not overflow about function CMGR.
15. Modify to check the file name when transferring files.
16. Modify the command of AT+COTADPHONENUMBER.
17. Modify that check the status of SIM PIN at first when use AT+CLCK.
18. Modify that use HPLMN of IMSI but not ACTING'S.
19. Move the device info to the end in command AT+SIMCOMATI.



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[New Features]

1. Add AT+FSDEL=*,* command.

[Improved Features]

20. Fix the bug that during TCP transport, one side changes to command mode by +++, the other side receives +++.
21. Fix the bug that during the CSD call, one side changes to command mode by +++, the other side receives +++.
22. Fix the bug that when dialing CSD phone of ATD17201, input user/password with +++, then error occurs.
23. Fix the bug that silence function relieves automatically during multi-call.
24. Modify the AT+CCAMSETPN command.
25. Fix the bug that during voice call, after setting +CMUT=1 and VMUTE=1, there will be inefficient with setting AT+CMUT=0.
26. Fix the bug that the name format of the files named by +ccamrs/+cqcprec is not according to “YYYYMMDD_HHMMSS”. And when the name repeats, the new one overwrites the old.
27. Fix the bug that dialing during dialing; the speaker of module has no voice of dialing.
28. Modify the AT+CECSET=? command.
29. Fix the bug that silence during call with +vmute. When waiting for an incoming call, silence invalidation occurs with vmute=1.
30. Fix the bug that during multi-call, sending DTMF is ok. But after executing AT+CHLD, sending DTMF occurs error with AT+VTS.
31. Fix the bug that when dialing a number during multi-call, the foregoing call will be canceled.
32. Fix the bug that after download difference package successfully, notify to restart the module and executing AT+FOTASTART is ok, then returns “+FOTA: succeeded to notify fota server the update result!”



33. Fix the bug that under the W net, after setting AT+CREG=1, it will be report automatically ever the network registration has no change.
34. Modify the AT+CMGS command.
35. Modify the AT+CMGSEX command.
36. Fix the bug that executing AT+CGATT=0/1 during call, the COM is blocked.
37. Fix the bug that sending and receiving SMS at one time when +CNMI=1,2, there is no return after sending successfully.
38. Fix the bug that pause playing audio-file by at+ccmxpause, after dialed a call, it can't play again and return ERROR.
39. Fix the bug that when call video call, the return value is incorrect if the length of the number over 31
40. Fix the bug that end call during multi-call by AT+CHLD=1, the format of the return value is incorrect.
41. Fix the bug that it can't authenticate by PAP under dial-up connection.
42. Modify the AT+CPSI command.
43. Modify the AT+CCINFO command.
44. Modify the bug that under the TEXT UCS2 mode, the content of received SMS is null.
45. Modify the AT+CMWAIT command.



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[New Features]

1. Add AT+CHTUPDATE? to query it is synchronization at the just moment.
2. Add AT+FSCOPY command to copy an appointed file.
3. Add AT+CLCC=1 to set auto report function
4. Add AT+CECSET to adjust echo parameter dynamic
5. Add AT+CDIPR command to set the download baud rate, it will be saved real time.
6. Add AT+CUDIAG command to switch the service between UART and DIAG.
7. Add command at+chtpserv
8. Add command at+ccamsetpn
9. Add at+cipstat=<link_num>
10. Add function of sending USSD.
11. Add command AT+CCAMTPEXT
12. Add command AT+PRINTDIR for LUA testing
13. Add command AT+CMWAIT
14. Add FOTA DM function

[Improved Features]

1. Fix the problem that when execute at+netclose, the state of current port will be confusion, can not make a call.
2. Change the return value range from 1-256 to 0-255
3. Fix the problem of AT+CMGSEX that some performance of this command is not exact like the document descriptions.
4. Fix the problem that MP3 play don't stop in PS call begin and stop
5. Set default USB speed as high.
6. Modify AT+CSTA, add 161 and 177 type for <type> parameter.
7. Fix the problem that it will report twice "+POP3: SERVER ERROR" when POP3get mail failed.
8. Fix the problem that it return the wrong value when Send MMS to the number not existed.



9. Fix the problem that when edit the emergency numbers use command AT+CEMNLIST, it can edit duplicate numbers, and return ok when the total numbers is out of range.
10. Execute AT+CPBF=<findtext>, when <findtext> is null, make it display all phone numbers list.
11. Modify the return value format of at+csrp.
12. Fix the problem that POP3LIST return value includes an unwanted blank line.
13. Execute AT+CHLD=2X with the card not supported multi-call, the serial port will be blocked for a while.
14. Fix the problem that it will return "BUSY" when execute AT+CHTPUPDATE=?, which is not agree with the document.
15. Fix the problem that when query phonebook, the return list sequence is out-of-order.
16. Fix the problem that it can operate cwd, pwd without ftps logging in.
17. Fix the problem that when a phone number is saved several different names, when initiate a call with name, it will display the wrong record.
18. Receive a video call while making a kinescope, it will be no ring, and error with the kinescope.
19. Fix the problem that when write record to "FD" with AT+CPBW failed, the report is not exact.
20. Fix the problem that can not register the network when the SIM card access class is bigger than 10.
21. Make it show the whole parameter information when execute AT+CSOCKAUTH=?
22. Fix the problem that after setting AT+CLIP=1, it will report once the caller identify before the first ring when there is a incoming call.
23. Fix the problem that after TCP link send data is more than 1024 bits, it will always return TCP busy when send data again.
24. Fix the problem that after executing +cftpshd, there is no response for a long time, the signal lamp is winking in a high frequency, both AT port and modem port does not work unless reset it.
25. Fix the problem that execute AT+POP3OUT, sometimes the serial port is blocked.
26. Modify AT+CGPSINFO, add GPRMC information
27. Fix the problem that the return value of "AT+CDIPR=?" is incorrect, and fix the document format problem.
28. Make sure the parameters of at+fscopy should not empty



29. Fix the bug that dial the invalid index or empty record should prompt different strings.
30. Fix the problem that executing POP3 series commands for sina net, sometimes the serial port is blocked
31. Modify command "at+cipstat", make it clear the statistic value when net close.
32. Fix the problem that send data with single TCP link, the serial port will be blocked after IPCLOSE
33. Fix the problem that during a video call, select video file as video source, then select picture as video source, the other side can not hear.
34. Fix the problem of missing 128 phone number type of CSTA
35. Fix the problem that after removing the SIM card, execute command AT+STGR, it still returns OK
36. Fix the problem that enter pin code after PUK require, the report is not exact
37. Fix the problem that after failed to login FTPS for the first time, execute AT+CFTPSSTOP, then login again, it will reset.
38. Fix the problem that can not copy the file without the second parameter <file2> when execute at+fscopy.
39. Fix the problem that set HTP server, then execute command AT+CHTTPUPDATE, which makes it reset.
40. Fix the problem that execute AT+CHTTPSOPSE and failed to open for several times, it will reset.
41. Fix the problem that transmit data successfully with single link and TCP format, it does not return "Send ok".
42. Modify AT+CGPSINFO RMC time
43. Modify the return value of "AT+VPSOURCE=?" to (0-3).
44. Fix PC AUDIO reset problem
45. Fix the at+cftpsstart reset problem
46. Fix the reset problem when send MMS via wap.
47. Modify the maximum length of FTP password as 40 bytes.
48. Fix the problem that HTTPS can not send data while receiving data.
49. Fix the bug that get sina mail with pop3get,sometimes it will return error
50. Fix the bug that can not execute AT+CHTTPSSTOP after executing AT+CHTTPSOPSE failed.



51. When the pop3list is empty, make it display "+POP3: EMPTY".
52. Modify command ATI and AT+CGMR
53. Fix the bug that when download data with at+cftpget, it will be time out if it does not receive any data within 5 minutes
54. Modify the ftpslist overtime to 60 second.
55. Fix the bug that can not download mail over 500kb with POP3get.
56. Fix the bug that do not answer when there is a CSD call, there is no prompt.
57. Fix the bug that after execute AT+CFTPSGET successfully, then execute at+cftpsgetfile, it will return the wrong value.
58. Fix the problem that can not set "AT+CDIPR=0/3" successfully.
59. Fix the problem that can not set the CSMP back to the default value.
60. Fix the problem that the second parameter of AT+CSMP can exceed 255 and return OK.
61. Fix the bug that set call waiting during a call, the call state queried by CLCC does not change.
62. Fix the bug that when dial the numbers in "EN" phone book, it can not query by AT+CLCC
63. Fix the bug that get a mail with more than 10 accessories with AT+POP3GET,the accessories name will be wrong.
64. Fix the bug that accessing the web not exists with AT+CHTTPACT, it will return the wrong error code.
65. Fix the bug that edit PB record, when the type is 145,it only support 19 bytes.
66. Fix the bug that rename file/folder with at+fsrename, it will return OK even if <old_name>/<new_name> is null.
67. Fix the bug that rename file not exists with at+fsrename, it will return OK when <old_name> is the same with <new_name>.
68. Fix the bug that set AT+CLCC=1 and initiate a call, it will report the alerting state again when the other side refuses the call.
69. Fix the bug about CSD auto answer.
70. Fix the bug that rename file from majuscule to lowercase under C disk, it returns OK, but not did actually.
71. Fix the bug that the return value of AT+CFTPSPUT is different from the document.
72. Fix the bug that execute AT+SMTPBODY with the number of characters over the range,



it will return ERROR but did actually

73. Fix the bug that execute AT+CMMSVIEW, there is no blank line between the return value and OK.
74. Fix the problem that edits SMS with the wrong type, the value queried will be changed
75. Fix the problem that edit SMS with no recipients, read it with CSDH=1, the type will be 128.
76. Fix the problem that use AT+TCPWRITE to send data with TCP single link, it will return "+IPCLOSE" even when send only part of the data. When send data again, it returns "+IP ERROR: TCP busy"
77. Fix the problem that some mails can not use AT+POP3HDR=X to read all of the head information
78. Fix the problem that it will reset when use "AT+CHTTPSEND" to send letters with the length exceed the maximum
79. Fix the problem that parse www.sina.com.cn with 3G SIM card, it cause the serial port blocked
80. Fix the problem that send SMS with more than 160 bytes data, it will prompt "Invalid text mode parameter".
81. Fix the TCPIP problem when the server closed when multi-link, it will return "ERROR" when execute "AT+NETCLOSE"
82. Fix the bug that the return value format of command AT+POP3LIST is incorrect
83. Fix the bug that query CPMS before SMS confirm with +CNMA, will make the serial port blocked
84. Fix the bug that when execute AT+CHTTPSRECV (for HTTPS) but no receive data, there is no prompt
85. Fix the bug that when the ME is full, it will save the SMS to SM automatically
86. Fix the bug that There is no error code returned when AT+CHTTPACT request is empty.
87. Fix the bug that it will return "ERROR" when execute AT+CPIN="" when the pin is unlocked.
88. Fix the bug that when TCPIP single-link/multi-link transmission, it will return success even if the server does not receive any data.
89. Fix the bug that when send MMS to the number not existed, it will still return send successfully.
90. Fix the conflict problem between CSD call and VOICE call.



91. Fix the bug that when set "SC" password with CLCK for twice, it will return "+CME ERROR: SIM failure"
92. Fix the bug that it can execute ATD*99# even if +CFUN=0/4/5/7.
93. Fix the bug that after set AT+CSDH=1, read SMS with AT+CMGL, there is not data head value.
94. Fix the bug that change system time during a video call, the time will display jumbled after the call.
95. Fix the bug that execute AT+CFTPSGETFILE will return network error, but succeeded to download file actually.
96. Fix the bug that execute AT+CLCK="SC",1,"1234" twice, it returns OK but not execute actually.
97. Fix CMWAIT parameter over range problem.
98. Fix CLCC prompt confusion problem.
99. Fix bug that when read SMS with AT+CMGR, it can not display the addresser name.
100. Fix bug that when send SMS with AT+CMGSEX, <toaa> can set as any value. Limited toda/tooa value at the range of 128-255.
101. Fix bug folder naming rule is not agreed with the document.
102. Fix command AT+CGAUTH, allowed to set empty user name and password.
103. Fix bug when memory is full, save picture with command at+ccamep, it will return error after the picture path and name.
104. Modify command at+ccansetpn, make the naming rule be the same as file system.
105. Fix the bug that when baud rate is 115200, execute at+ipr using UART port, there is no return value; then execute other command using AT port, it will cover command at+ipr.
106. Fix the bug that executing AT&F using UART port, there is no return value.



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[New Features]

15. Add AT+CMMSINCLN for video/mp4 compatible for different operators.
16. Add TCP TM (transfer mode), Add server-mode TCP transfer code.
17. Add the fifth parameter in AT+CIPCCFG to set the data type of the received package head.
18. Add judgment for the left size of flash/sd card with the mail size when getting pop3 message.
19. Add source code to get message size before getting the pop3 message.
20. Add command AT+CMGSEX.
21. Add command AT+CCAMCHL.
22. Add new commands AT+CECM (about Echo Suppression) and AT+CNSM (noise cancellation).
23. Add command AT+CFTPLIST.
24. Add command AT&F

[Improved Features]

107. Modify AT+FSMEM=<limit>,<timer> report format ; fix the bug that after setting “AT+FSMEM =<limit>, 10 ” and setting “AT+FSMEM =<limit>,1” , it can not report normally
108. Modify AT+CMMSSEND to enable only sending in edit mode.
109. Fixed the problem that the return result of AT+CDNSGIP is unstable.
110. Fixed the problem that after executing the FTPS related commands, it return error directly.
111. Fixed the problem that after setting +CPSI=1, when view all the messages in SM, the serial port is blocked.
112. Fixed the problem when dialing a video call and check AT+CLCC before connecting, it returns “+CME ERROR: unknown”.
113. Fixed the problem when download the file which does not exist in the server, it doesn't return ERROR, but report multi-result.
114. Fixed the problem when both in communication, try to dial, can not end the latter call.
115. Modify VOICE CALL:END: to support multiple call time statistics



116. Fixed the problem when the first call is connected, try to dial the second call, then end the first call using AT+CHLD=11 when dialing the second, check the second call using CLCC, the state is wrong.
117. Fixed the problem that after activate all the call in multi-call, execute AT+CHLD=2X unconventionally.
118. Fixed the problem that in 17201 data call, execute AT+CHLD=11 to end the data call, execute AT+CHLD=1 to return ERROR.
119. Fixed the problem that there is one unwanted error prompt when log on POP3.
120. Fixed the problem that there is one unwanted error prompt when failed to send an e-mail.
121. Fixed the problem that it will still prompt +POP3: FAILURE after pop3stop.
122. Fixed the problem that input AT command 10-20 seconds after executing POP3STOP, it will be frozen about 5 seconds.
123. Modify AT+POP3HDR to recognize the end of TOP command response more correctly.
124. Fixed the problem that when execute AT+CLIP=1, one out-coming call and one in-coming call occur in the same time, there is no return value when check CLCC.
125. Modify AT+POP3READ to support read files which's length of directory name is not 25.
126. Modify AT+SMTPSEND to support correct syntax of MAIL FROM and RCPT TO.
127. Modify "AT+CFTPSDELE=?" command.
128. Fixed the problem that the serial port is blocked when write data to a not existed file.
129. Modify FTPS to add more judgment for AT+FTPSGET and AT+CFTPSPUT.
130. Fixed the problem that cannot remove file with logic filename.
131. Modify AT+CMGENREF=? to return OK.
132. Modify AT+CSUART, AT+CDTRISRMD, AT+CPCM, and add TA value in AT+CCINFO.
133. Modify at+cplmnwlist setting, if the setting is the same as last time, returns OK directly.
134. Fixed the problem that when insert 158 card, supply power using USB or power supply, operating FTPS commands, then it will restarts
135. Fixed the problem that in W net, after sending small data successfully, it will failed when send small data several seconds later.
136. Modify FTPS logging in command, when logging in failed, reset some data.



137. Fixed the problem that can not update using FOTA, PC can not identify the device after executing the command.
138. Fixed the problem that there is no report sometimes when executing at+cftplist.
139. Fixed the problem that the serial port is blocked when execute AT+POP3LIST when using uart—usb line.
140. Modify AT+CDELTA, only support to get file from current directory.
141. Modify TCP TM, when it is failed to transmit, disconnection socket, and stop transmit.
142. Fixed the FTPS logging in problem, when the password is incorrect, return ERROR.
143. Modify command at+ftpsstart, when ctl session already exists, try to delete it, then rebuild it.
144. Fixed the problem that there is excursion when ov7725 camera find a view.
145. Connect one call, dial the second call, execute at+chld=21, after the second call is accepted, it can not execute command “at+chld=2”, if execute command at+chld=21, the serial port is blocked.
146. Insert the card without the multi-call server, connect one call, execute command at+chld=21 while dialing the second call, the command can not be excuted, the serial port is blocked.
147. Modify FTPS, after logging in, it returns ERROR directly when call ftpslogin repeatedly.
148. Modify at+cftpspwd as that Searching from the server every time.
149. Fix the problem that after logging in FTPS server, the module would stop when it disconnects by the server.
150. Modify at+cftpspwd, fix the problem that get the current direction of the server, the direction value is wrong.
151. Modify at+cftpspwd, fix the problem that the list value get from the same direction use at+cftpspwd is different
152. Fix the problem that when upload files to a empty folder, it reports succeed, but no file upload to the folder in the FTP server.
153. Fix the problem that dialing CSD video call under WCDMA net, it reports ring when there is a in-coming call, but can not refuse the CSD call
154. Modify FTP list, if failed to create ssl session, try to delete unoccupied one in the internal session pool, then create again.
155. Fixed the problem that can not set at+vpsource=3.



156. Modify AT+FTPSLOGIN, after calling at+cftpslogin, no matter what it returns, when calling at+cftpslogin for the second time, it must quit with at+cftpsstop, and at+cftpsstart again, then it could calling at+login.
157. During the video-call communication, the DTMF tone parameter value is out of the range.
158. Modify the problem that SIM card with the PUK locked would not report +CPIN: SIM PUK when startup.
159. Fix the problem that when the PUK is spent, the SIM card will always stays +CME ERROR: SIM busy.
160. Fix the problem that when send data to the server, only the diag port is non-blocked.
161. Fix the problem that after executing AT+CFTPSPWD for a long time, there is no return, the signal lamp is winking in a high frequency, both AT port and modem port do not work unless reset it.
162. Fix the problem that it's failed to upload file by executing AT+CFTPSPUTFILE.
163. Fix the problem that during a video call, executing AT+VPDTMF="" makes the device reset.
164. Fix conflict problem between audio play and call. Play audio file when a call is connected, then pause it, both of the two sides can not hear each other.
165. Fix the problem that in GSM net, during a call is connected, play qcp file to oneself, before the end, play the same qcp file to the other using the command, the qcp file can not be played.
166. Fix the problem that play mp3 file during a call is connected, only oneself can hear the voice, the other side can not hear it.
167. Fix the problem that accept an incoming call with ATA during recording, it is connected but return error.
168. Fix the problem that incoming call ring up during recording, there is no sound in the record when it is ring up, and the sound is normal after the call is accepted or refused.
169. Fix the problem that record for a long time record, there is no enough memory, the recording is stopped, but there is no report.
170. Fix the problem that during recording, connect a call, the record should be paused or keep on.
171. Check the audio file format before playing it.
172. Fix the problem that the return value of 'at+cecm?' which set by at+cecm is out of spec range.



- 173. Fix the problem that report “+FSMEM”URC after executing AT+FSMEM=<limit>,0
- 174. Fix the problem that it would not auto report when change the mode to WCDMA when AT+CNSMOD=1
- 175. Fix the problem that Single UDP data can not be sent under W net
- 176. Fix the problem that when use at+pop3list=<msg_id> to check mails which not existed,the serial port would be blocked.



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[New Features]

1. Add LUA os.crushrestart and os.restartscript functions.
2. Add FTPS function
3. Add at+curcd to report URC delay time.
4. Add FEATURE_ATCOP_NV_RW, make it can read and write NV by ATC .

[Improved Features]

1. Modify MMS cmmsdown to distinguish between html and text format.
2. Fix the bug when set AT+CNMI=1,2, it will report +CMT when sending and receiving SMS at one time.
3. Limit the parameter of AT+CMMSREAD under 256
4. Fix the bug that can not play the mp4 files which were sent by MMS.
5. Fix the bug that will crash when change the DRT interrupt.
6. Modify the command AT+FSMEM
7. Fix the bug that after play CPTONE, it can not heard the voice during the call.
8. Fix the bug that after inputting 'A' in super terminal, there is no CCWA report.
9. Fix the problems in multi-calls, refer to the bug 7562,7626.
10. Set +cnmi=1,2, receive a message, set up a call, then the logic serial port is blocked
11. The time is wrong when reopen a saved MMS which just received yet.
12. When editing a received SMS, the sender area should be empty.
13. Modify the ov7670 parameter of camera.
14. Modify the conflict between FSLs and URC.