SIM7080_A Firmware Release Note

Latest Version: 1951B02SIM7080_A

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SIM7080_A Cellular Engine

1 Preamble

This Release Note introduces SIM7080_A firmware versions and briefly describes the benefits over preceding release. Also user can find differences compared to preceding release.

New Features: It lists features or AT commands which are newly developed compared to the preceding version.

Improved Features: It lists features or parameters that have been changed or improved compared to the preceding version.

2 Related documents

[1] SIM7070_SIM7080_SIM7090 Series_AT Command Manual
[2] SIM7080G Hardware Design

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[New Features]

1. Added command "AT+CALPC" to configure low power consumption mode of AP.
2. Added "AT+CNNI" command to query the amount of data sent and received by the PDP.
3. Extended "AT+CGPIO" command to detect whether the SIM card is removed.
4. Extended "AT+CPSI" command to support more bands.
5. Added DTLS function of CoAP.
6. Added "AT+SECMDMZ" command to configure ECM virtual host.
7. Added "AT+CEID" command to read the EID value in the SIM card.
8. Extended "AT+CAOPEN" and "AT+CASERVER" to configure whether URC is automatically reported.
9. Extended MQTT function for one device or model corresponds to one secret key.
10. Added "AT+SPIC" command to query the remaining times of PIN/PUK input.
11. Added "AT+CRATPRI" command to configure the priority of each wireless access technology.
12. Added "AT+CNASCFG" command to configure the NAS configuration file of the terminal.
13. Added "AT+CLRNET" command to clear previous network registration information.
14. Added MQTT connect asynchronous function.
15. Extended the length of MQTT username to 256 and the length of password to 512.
16. Added the function of FOTA through LwM2M.
17. Added "AT+CIPV6RS" command to configure related parameters for sending IPV6 RS packets.
18. Extended parameters of "AT+CACFG" command.
19. Extended <urc_type> of "AT+CURCCFG" command to configure URC of TCPIP.
20. Added "AT+FTPTOFSST" command to get FTP download status.
21. Extended the parameter <keeptime> of "AT+SMCONF" command to (0-65535).
22. Extended LwM2M function.

[Improved Features]

1. Fixed the bug that the response of "AT+COPS?" is not correct after setting "AT+CSCS="UCS2"".
2. Fixed the bug that the value of PA voltage is not correct after normal start up in some cases.
3. Fixed the bug that module crashes when receiving MQTT data packets while using "AT+CFSRFILE" command to read part of files.
4. Fixed the bug that restarting the ECM function will fail in some cases.
5. Fixed the bug that the MQTT message sometimes misses when executing "AT+SMPUB".
6. Fixed the bug that module will report ERROR URC after receiving WAP push message.
7. Fixed the bug that using "AT+POP3DEL" to delete mail will be unsuccessful in some cases.

8. Fixed the bug that the module will reboot when using SMTP or POP3 access if SSL type connection is set and the certificate is not imported or incomplete.
9. Fixed the bug that the parameter range set by the "AT+CCOAPACTION" command is incorrect.
10. Fixed the bug that the range of some parameters set by "AT+SMCONF" command is incorrect.
11. Fixed the bug that the module will reboot when "AT+CPOL" is executed after sending UCS2 format SMS.
12. Fixed the bug that using "AT+POP3DEL" to delete mail will be unsuccessful in some cases.
13. Fixed the bug that the module will reboot when using SMTP or POP3 access if SSL type connection is set and the certificate is not imported or incomplete.
14. Fixed the bug that the parameter range set by the "AT+CCOAPACTION" command is incorrect.
15. Fixed the bug that the range of some parameters set by "AT+SMCONF" command is incorrect.
16. Fixed the bug that the module will reboot when "AT+CPOL" is executed after sending UCS2 format SMS.
17. Fixed the bug that module restarts when executing "AT+FTPEXTGET=0" in some cases.
18. Fixed the bug that the data sent by module to the server sometimes will lost in IPv6 TCP/IP mode when CSQ is less than 12.
19. Fixed the bug that HTTPS connection failed because certain types of time formats in the certificate are not supported.
20. Fixed the bug that module will reboot when executing "AT+CCOAPTERM" command in some cases.
21. Fixed the bug that module will crash if the host set by "AT+SECMEN" command does not load the driver.
22. Fixed the bug that "AT+CGAUTH" does not be executed without SIM card.
23. Fixed the bug that the query result is incomplete when <value> set by "AT+FTPGETPATH" exceeds a certain length in some cases.
24. Fixed the bug module will crash when executing "AT+FTPEXTGET" command after executing "AT+FTPEXTPUT" in some cases.
25. Fixed the bug that module will reboot when executing "AT+CCOAPPARA" command to set parameters in some cases.
26. Fixed the bug that module will crash when executing "AT+SMDISC" command when connects to the server through "AT+SMCONN" and returns OK in MQTT asynchronous mode.
27. Modified ECM command to resolve related issues such as ECM mode cannot be closed and authentication configuration is not successful.
28. Fixed the bug that the data of other mails are all "\0" after using "AT+POP3READ" to read the shorter mail in some cases.
29. Fixed the bug that the connection will fail when the MQTT AZURE connection ignores the certificate.
30. Fixed the bug that the received mail has no body display if re-send the failed mail with

attachment.

31. Fixed the bug that the remaining data becomes "/0" after executing "AT+SHDISC" command to disconnect the connection.
32. Fixed the bug that executing "AT+CRATSRCH=1,20" command returns ERROR.
33. Fixed the bug that module can enter PSM again without data interaction after exiting PSM.
34. Fixed the bug that the display format of the ""AT+CIPV6RS"" command is incorrect.
35. Disabled the keep alive mechanism when the <keeptime> parameter of "AT+SMCONF" is set to 0.
36. Fixed the bug that some parameters of the EMAIL function have not been judged for validity.
37. Fixed the bug that module returns to delete successfully when executing "AT+POP3DEL" to delete the non-existent mail.
38. Fixed the bug that module will report multiple redundant information and reboot if <topic> of "AT+SMSUB" is "#" in some cases.
39. Fixed the bug that some issues related to "AT+SECMEN" command.
40. Fixed the bug that Google MQTT does not be used normally.
41. Fixed the bug that the data read by "AT+SHREAD" is incomplete in some cases.
42. Fixed the bug that MQTT connection is not successful after executing "AT+SMCONF="cleanss",0".
43. Fixed the bug that the serial port is blocked when reading data in some applications.
44. Fixed the bug that NIDD does not receive the second packet of data.
45. Fixed the bug that there are two URC reports "+STIN:" when set "AT+STK=1" and then reboot.
46. Fixed the bug that the <topic> of "+SMSUB: <topic>,<message>" will have garbled characters in some cases.
47. Optimized the SSL function to improve the stability of the data transmission process.
48. Fixed the bug that the module will reboot when the subject is set by "AT+SMTPSUB" and then query in some cases.
49. Fixed the bug that the module will reboot when executing "AT+SMSTATE?" in some cases.
50. Fixed the bug that when the UDP SERVER and the remote client are continuously sending data to each other, an exception occurs and the serial port is blocked after executing "AT+CACLOSE=0".
51. Fixed the bug that after sending the "AT+SHREQ" request, then close the connection and reconnect, the data read by "AT+SHREAD" becomes "\0".
52. Fixed the bug that the expired certificate does not be verified when connecting to the AWS HTTPS server.
53. Fixed the bug that FTP does not connect to IPv6 server in some cases.
54. Fixed the bug that the module will reboot when connect to the non-existent TCP server through "AT+CAOPEN" command.
55. Fixed the bug that the parameter <content length> range is not correct of "AT+SMPUB=?" command.
56. Fixed the bug that AP upgrade will fails during the FOTA upgrade process in some cases.

57. Fixed the bug that the module will reboot when the number in "AT+CMSS" is too long in GSM mode.
58. Fixed the bug that module will detach after executing "AT+CDNSGIP" command.
59. Fixed the bug that some SIM cards do not return the correct phone number using "AT+CNUM" command.
60. Fixed the bug that "AT+CRAI" command does not take effect after setting.
61. Fixed the bug that the module will reboot when executing "AT+FTPLIST" command after the download using "AT+FTPEXTGET" command failed.
62. Fixed the bug that the module will reboot when executing "AT+FTPEXTGET" to read after executing "AT+FTPEXTGET" command.
63. Fixed the bug that sometimes data is not sent successfully or not correct in FTP active mode.

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