

SIM800L Firmware Release Note

Latest Version: 1308B03SIM800L32

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SIM800L GSM Cellular Engine

1 Preamble

This Release Note introduces SIM800L 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] SIM800 Series_AT Command Manual_V1.02

[2] SIM800L_Hardware_Design

[New Features]

1. Add FM function.
2. Add PCM function.
3. Add NTP function.
4. Add SSL function (Emails, HTTPS and FTPS).
5. Add Jamming Detect function.
6. Add IAP function of firmware update via UART port.
7. Add auto sleep mode (AT+CSCLK=2).
8. Add 230400 and 460800 baud rate.
9. Extend the scope of parameter <n> of AT command "AT+CHFA" to "0-4".
10. Add 1024 bytes long messages sending/writing function (AT+CMGS/AT+CMGW).
11. Add the function to enable/disable DDET during a call.
12. Add the second parameter for "AT+DDET" command to specify the reporting interval between two DTMF URC messages and add the third parameter to specify reporting mode.

[Improved Features]

1. Fix the bug that DTR is not valid during TCP/IP transfer or when executing "ATD*99#" command in CMUX mode.
2. Fix the bug that messages +CREG only output from one virtual serial port under CMUX mode.
3. All incoming call will be rejected during SMS sending process.
4. Fix the bug that the DCD state is incorrect in CMUX mode.
5. Fix the bug that the system will reboot or enter error state when it switches between physical serial port (normal mode) and virtual serial port (CMUX mode).
6. Fix the bug that it does not output "NORMAL POWER DOWN" message when data is sent via virtual serial port (AT+CPOWD).
7. Fix the bug that RI pin will not be pulled down for 120ms when URC message is reported in some cases.
8. Fix the bug that serial port will be dead and stop responding anything after sending "CLOSE" messages, when the serial port is set to a lower fixed baud rate, and the server sent a large amount of data and customer wants to disconnect this connection.
9. Fix the bug that module keeps working for a long time after executing AT+CPOWD=0.
10. Fix the bug that "Call Ready" will be reported twice after plugging out then plugging in SIM card.
11. Fix the bug that after it executed "AT+CCVM" command serial port is blocked.
12. Fix the bug that "AT&F" command has no effect on "AT+CNETLIGHT" and "AT+CRLP" command.
13. Fix the bug that "NO CARRIER" is reported incorrectly in some cases, such as making a CSD CALL, hanging up a call with "ATH" or "AT+CHLD" command.
14. Fix the bug that when data are received from TCP/IP server, serial port may be activated

- unexpectedly then module quit from sleep mode.
15. Allow executing "AT+CENG" command when SIM card is not inserted.
 16. Fix the bug that "AT+FTPPUT=1" command may cause system crash when customers input a large amount of data.
 17. Modify return value of "ATD*#33#" from "+CLCK: 0,15" to "+CLCK: 0,7", currently "AT+CLCK="AO",2" return value is "+CLCK: 0,7".
 18. Fix the bug that netlight state is incorrect in some cases, such as: executed some command ("AT+CFUN=0" then "AT+CSCLK=1") or during GPRS connection.
 19. Fix the bug that "AT+HTTPSTATUS" command reports wrong data state when customer does not start a HTTP session.
 20. Fix the bug that "AT+CPIN" command has no effect in some cases.
 21. Fix the bug that "AT+CSMINS?" shows incorrect status after SIM card is pulled out.
 22. Fix the bug that "AT+CMGL" command outputs wrong messages after module executed "AT+CPMS="ME_P"" command.
 23. Fix the bug that memory space setting is wrong after module executed "AT+CMGDA="DEL ALL"" then "AT+CPMS="SM"" command.
 24. Fix the bug that there is no sound after the first 30s when parameter <duration> of "AT+STTONE" command is set to the max value.
 25. Fix the bug that reopen of virtual serial port will not work after executed "AT+SMTPBODY" command.
 26. Fix the bug that output "+CSQN: 0,0" during a call.
 27. Fix the bug that there is repetitive cell information after executed "AT+CENG=2" command.
 28. Fix the bug that message includes redundant characters with UCS2 mode when receiving message includes special characters. ("AT+CMGR").
 29. Fix the bug that there is no response after executed "ATH" command to disconnects a PPP link in condition that "CGACT" is activated.
 30. Fix the bug that system will reboot after reading data more than 1024Byte from serial port once a time.
 31. Fix the bug that call can be hung up mistakenly from other virtual port.
 32. Fix the bug that the call will be hung up by pulling up DTR when making a CSD call with ring status.
 33. Make DDET enabled only when SIM card is verified.
 34. Fix the bug that serial port will output messy codes if AT+IPR=0 in some cases, such as incoming a call or hanging up a call.
 35. Improve the reinitialize function when customer executed "AT+CFUN=0" then "AT+CFUN=1" command.

Version: 1308B02SIM800L32

[New Features]

1. Add AT+CSMINS/AT+CSDT commands to support SIM card detected function.
2. Add AT+SPWM command.

3. Added "AT+CMGS=">index"" and "AT+CMGS="name"" function to simplify short message sending operation.

[Improved Features]

1. Fix the bug that HTTP page cannot be opened after PPP connection for a while (5 minutes).
2. Fix the bug that executing "AT&F" command does not restore the default value of "CBST".
3. Fix the bug that there is redundancy output information "OK" after executing "ATH" to disconnect the PPP.
4. Fix the bug that executing "ATH" does not return "OK" after executing "ATH" to disconnect PPP.
5. Output "Call Ready" message after executing "AT+CFUN=0" then "AT+CFUN=1" command even if module does not reinitialize phonebook in some conditions.
6. Disable HTTP and FTP function when SIM card is locked.
7. Fix the bug that module fail to get HTTP and FTP initialization parameters saved by "AT+HTTPSCONT" or "AT+FTPSCONT" in NVRAM.
8. Fix the bug that response string "OK" will be lost after executing "AT+ICF=1" command.
9. Fix the bug that serial port has no response after electrical level of DTR line is changed during TCP/IP or PPP connection.
10. Fix the bugs about phonebook function.
11. Fix the bug that response message should be printed immediately after executing "AT+CCFC=0,3" command.
12. Fix the bug that the restored value of "AT+CIPSCONT" parameter is wrong after module reboot.
13. Fix the bugs about email function.
14. Fix the bug that the netlight state is not right when PPP connected, DTR pulled down then pulled up and module enters sleep mode.
15. Fix the bug that the netlight status is wrong when GPRS is connected by executing "AT+CSGS=1" command.
16. Fix the bug that received message is wrong after executing "AT+CMGHEX=1" command.
17. Fix the bug that fail to send saved message.
18. Fix the bug that customer can hang up all call from other virtual serial port.
19. Fix the bug that customer must switch on/off DTR PIN twice to exit data mode instead of once.
20. Change auto-baud trigger mechanism from DTR pin level to auto-detection when customer inputs character.

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