SIM908 Firmware Release Note

Latest Version: 1137B02SIM908M64_ST_ENHANCE

General Notes

SIMCom offers this information as a service to its customers, to support applications and engineering efforts that use SIMCom products. The information provided is based upon requirements specifically provided to SIMCom by the customers. SIMCom has not undertaken any independent search for additional relevant information, including any information that may be in the customer's possession. Furthermore, system validation of this SIMCom product within a larger electronic system remains the responsibility of the customer or the customer system's integrator. All specifications supplied herein are subject to change.

Copyright

This document contains proprietary technical information which is the property of SIMCom Limited., copying of this document and giving it to others and the using or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. All rights reserved in the event of grant of a patent or the registration of a utility model or design. All specification supplied herein are subject to change without notice at any time.

Copyright © Shanghai SIMCom Wireless Solutions Limited. 2012

SIM908 GSM Cellular Engine

1   Preamble

This Release Note introduces SIM908 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] SIM908 AT Command Set, V1.02
[2] SIM908 Hardware Design, V1.05

Version: 1137B02SIM908M64_ST_ENHANCE

[New Features]

1. Added a third parameter for test command "AT+CLDTMF=?".

2. Added "HTTPSTATUS" test command.

3. Added a eighth parameter <notifrspcheck> to skip checking the HTTP response of mms notifyrsp ind message then to proceed the next step; added two field analysis of MMS retrieve state.

4. Extended the functionality of CPAMR command that it can stop the playing AMR file.

[Improved Features]

1. Solved the problem that "AT+SJDR?" command is lack of one parameter.

2. Removed the SIM card restrictions for JD command.

3. Solved the problem that when execute POST action, the queried HTTPSTATUS is error.

4. Unified the format of read commands: "AT+CIPSCONT?", "AT+FTPSCONT?", "AT+HTTPSCONT?", a space must be after the colon.

5. Solved the problem that JD state cannot recover after the module detected the interference under special circumstances.

6. Extended the maximum JD variance to 255, and also it is the default value.

7. Supported the voice coding type value "17": AMR-FR/AMR-HR/EFR/FR/HR of "AT+SVR" set command.

8. Solved the problem of one customer that ACTIVATE_PDP fails with CMCC network.

9. Modified the scope of parameter <T1> of CMUX command to "1-254".

10. Modified FTPSCONT read command by adding a blank line before returned OK.

11. Solved the problem that after user executes a wrong command as "AT+STTONE=1,,", the module may restart itself.

12. Solved the bug that when user executes "ATD>index" with the parameter <index> exceeds the maximum value, the module will return wrong indication.

13. Solved the problem for Taiwan customer that SIM card of FETnet cannot send or receive SMS.

Version: 1137B01SIM908M64_ST_ENHANCE

[New Features]

1. Added "AT+CIPRDTIMER" command to shorten the disconnect time locally when the remote server has been disconnected. Meanwhile, two parameter of this command are added to CIPSCONT command.

2. Added a new command "AT+SRSPT" to reduce the response time of SMS. It can be set as 0 or 1. The default value is 0 which means not to enable this function. 1 means enable this function.

3. Added three parameters of "AT+CIPCCFG" command: (Rxmode:0,1), (RxSize:50-1460), (Rxtimer:20-1000). If Rxmode is set to 1, the function is enabled that the data received from network in transparent mode will be partitioned into small blocks then sent to serial port by time sharing processing.

4. Added "FTPEXPUT" command to extend PUT method.

5. Added the support of network "460 20" in the query result of "AT+COPS?" command for customer TIETONG.

6. Optimized DDET function that it can be disabled or enabled during a call.

7. Extended the function of "AT+CLDTMF" command that user can generate square-wave by setting an extra optional parameter which is newly added to the end of the command.

8. Added AMR file remote playing function.

9. Added two parameter of SJDR command, <var> is for setting the variance threshold to separate jamming from interference, <display> is for configuring URC display method.

10. Added SSL and HTTPS functions.

11. Added "AT+CSGS=0/1" command, if it is enabled, the netlight will be enter to 64ms on/300ms off state in the connection of Email, TCP/IP, UDP/IP.

12. Added FTPMKD, FTPRMD, FTPLIST functions.

13. Added "AT+CNITZNN" command to disable NITZNN function.

14. Added "AT+HTTPSTATUS" command to require the state during data transmission process.

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

16. Added "AT+CNETSCAN" command to scan available network when there is no card in the module.

[Improved Features]

1. Solved the problem that NMEA output time was inaccurate if the system time is modified to the time after 5/2/2022.

2. Modified the unit of output speed of "AT+CGPSINF=32" to "knots".

3. Updated GPS database to GN_GPS_Nav_Lib: 4.04.27-111117-510-0000 Nov 18 2011.

4. Solved the problem that the voltage of 1.8v SIM card is still 3v after operating AT+CFUN=1 operation in some special cases.

5. Changed the initial return value of *CELLLOCK reading command from 255 to 0.

6. Solved the problem that no response would return from serial port when SHUTDOWN the TCP/UDP connection immediately after it was established.

7. Solved the problem that the module will reset itself if customer sending the "AT+CBAND="EGSM_DCS_MODE" command quickly and repeatedly.

8. Optimized the command "AT+EXUNSOL="UR",1".

9. Solved the problem if the module was reset by key depression, the information "SIM PUK2 required" will be shown when unlocking the pin after "AT+CFUN=1" operation.

10. Solved the problem that if the module with a roaming SIM Card was set "AT+CGATT=1" after it was powered on, the network registration state required by "AT+CGREG" command would be 0 but not 5.

11. Solved the problem that the response information might lose some data if user input "AT+CLCC" command continuously to list current calls.

12. Delete the extra response "OK" of "AT*CELLLOCK=0" command.

13. Solved the problem of Ukrainian customer: Set up a call connection between the module and mobile phone, and the mobile phone was set to call hold, then it reconnect this call, after which user cannot make the microphone of the module mute by setting "AT+CMUT=1".

14. Solved the problem that SMS process could not exit if the module enters into transparent mode during its editing process, it would cause the serial port impassable.

15. Resolved the problem that after "ATV0" was set to all channels in MUX mode, "ATV1" command would be invalid to all channels except the first one.

16. Solved the problem that "AT+CGATT?" option was not allowed after "AT+CGCLASS="CC" was set.

17. Solved the problem that the module would not report current state via "+GREG" indication after "AT+CFUN=4" was set.

18. Modified the scope of parameter <index> of "AT+SPWM" command to "0-2".

19. Solved the problem that no response returned from serial port if user writes a number to the phonebook after the SIM card was pulled out.

20. Solved the problem that the value of parameter <SQ> of EXUNSOL command was not saved after reset.

21. Solved the problem that "+CGREG" and "+CREG" reported error information after "AT+CFUN=0" was set.

22. Resolved the problem that while an SMS is coming in, sending SMS might cause serial port blocked in some special cases.

23. Solved the problem that if user input data during the period that the module is outputting large amounts of data in TCP mode, it may cause data loss or some other problems.

24. Solved the problem in some special condition that the audio channel was relatively slow when user answered the call by ATA command.

25. Solved the problem that the SIM908 module attaches GRPS slowly when SIM card is switched or a new module is powered on for the first time in some special network environment.

26. Resolved the problem that in some server, error message will return when user execute "AT+FTPSIZE" command.

27. Resolved the problem of restart when the module get and continuously read the data from the URL to which large data was uploaded.

28. Resolved the problem that there was no response when user using HTTPGET to get some URL.

29. Modified the response of "AT+CIPRXGET=2/3" command, added a blank line before returned "OK".

30. Added the restriction of parameter <toda> in AT+CMGS=">index" command.

31. Solved the problem in adaptive low rate that when user uses FTPGET to obtain data, some URC will be inserted into the received data.

32. Solved the problem that when CGCLASS="CC" was set, "AT+CGATT?" command could not be executed.

33. Solved the problem that the command "AT+CR99" cannot set "AT+CR99=12511". It can be achieved by setting "AT+CR99=0/1", the read result required by "AT+CR99" will be "0x12511/0x12510".

34. Solved the problem that CNMA test command runs error when CMGF is set to 0.

35. Solved the problem that after "ATV0" is set, a needless value "4" will be shown when "ATD>1;" was executed.

36. Solved the problem that CGREG state is still 0 when the module attached GPRS service.

37. Solved the problem that the MMS title cannot be modified when the added attachments are already full.

38. Solved the problem that executing CRSM command will lead to data loss.

39. Solved the problem that when executing "AT+CSIM=42,"A088000010FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"" will return error.

40. Solved the problem that when user edits a message by AT+CMGW command with some special characters in it like "^[]", and send it by "AT+CMSS" command, then the receiver will get a message which content is not consistent with the one edited before.

41. Extended the maximum length of FTPGETPATH and FTPPUTPATH to 256 bytes.

42. Solved the problem that the serial port is impassable when SIM card is plugged out.

Contact us:

Shanghai SIMCom wireless solutions Ltd.

Address: Building A, SIM Technology Building, No. 633 Jinzhong Road, Shanghai,

P. R. China 200335

Tel: +86 21 3252 3300

Fax: +86 21 3252 3020

URL: www.sim.com/wm