SIM908 Firmware Release Note

Latest Version: 1137B04SIM908M64_ST

General Notes

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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

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[New Features]

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

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

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.

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

14. Solved the problem of Ukrainian customer: Set up a call connection between SIM900 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 SIM900 mute by setting "AT+CMUT=1".

15. Extend 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.

16. 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.

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

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

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

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

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

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

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

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

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

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[New Features]

1. Added "AT+CWHITELIST" command to support white list function, only the number from the list is allowed to access, other numbers will be rejected directly without incoming call ring and any hints. It can set 30 numbers at most.

2. Added "AT+CNETLIGHT" command to close/open network light. 0 means close; 1 means open.

[Improved Features]

1. Further improved the command "AT+CIPTXISS=1" to prevent the response of AT command mix in TCP data.

2. Under the condition that the module is in sleep mode and the RF is closed, the module will enter into super sleep mode, the net light will be turned off for decreasing the decreasing the current consumption until the module exit the super sleep mode.

3. Solved the packet loss problem in mux mode during the PPP dial process in LINUX platform.

4. Solved the problem that the first parameter of "AT+CBC" command is not change when the battery charging ended.

5. Modified some parameter errors of "AT+CGPSINF" command in some cases.

6. Modified some URC errors of CSD call in MUX mode.

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[New Features]

1. Added a parameter of HTTPPARA command that customer can set http timeout period.

2. Added a parameter of HTTPPARA command that customer can set http context type.

3. Added "AT+CUSACC" command to accelerate uart speed.

[Improved Features]

1. Solved the problem that there is no response returned from serial port when active a call with some card for Brazilian customer.

2. Optimized the network searching method to accelerate the speed of searching network in some special cases.

3. Modified the digital gain set problem of AT+AUDG command.

4. Solved a problem of crash when SIMCard bus is overloaded

5. Solved the problem of DNS crash while using AT+CIPSHUT in decrypting process.

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