

# **SIM900R Firmware Release Note**

**Latest Version: 1137B04SIM900R32\_ST**

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# SIM900R GSM Cellular Engine

## 1 Preamble

This Release Note introduces SIM900R 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] SIM900 AT Command Set, V1.05

## **Version: 1137B04SIM900R32\_ST**

### **[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.
3. 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.
4. 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. 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. Modified some URC errors of CSD call in MUX mode.
4. Solved the problem that the module would reset if user input "AT+COPS=?" command continuously in some special case.
5. Solved the problem that the voltage of 1.8v SIM card is still 3v after operating "AT+CFUN=1" operation in some special cases.
6. Changed the initial return value of "\*CELLLOCK" reading command from 255 to 0.
7. Solved the problem that no response would return from serial port when SHUTDOWN the TCP/UDP connection immediately after it was established.
8. Optimized the command "AT+EXUNSOL="UR",1".
9. Solved the problem that plugging out the antenna may cause false reports of jamming detection.
10. 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.

11. Solved the problem of Ukrainian customer: Set up a call connection between 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 SIM900 mute by setting "AT+CMUT=1".
12. Solved the problem that MIDI interval was not precise.
13. 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.
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.

### **Version: 1137B03SIM900R32\_ST**

#### **[New Features]**

1. Added a safety protection for SIM900R software.

#### **[Improved Features]**

### **Version: 1137B02SIM900R32\_ST**

#### **[New Features]**

1. Added "AT+CR99" command to set the GPRS release number according to the user's operator. It can be set as 0 or 1. 1 means the default value 99, 0 means 97.
2. Added "AT+CEXTERNTONE" command to switch on/off audio function of MIC.
3. Added "AT+CUSACC" command to accelerate uart speed.

#### **[Improved Features]**

1. Fixed the bug that the module may reset itself when the Intrade card receives short message.
2. Fixed a problem that the serial port would be blocked while using AT+HVOIC to hang up a call.
3. Solved the problem that there is no response returned from serial port when active a call with some card for Brazilian customer.
4. Optimized the network searching method to accelerate the speed of searching network in some special cases.
5. Modified the digital gain set problem of AT+AUDG command.
6. Fix a problem of crash when SIM Card bus is overloaded.

7. Fixed the problem of DNS crash while using AT+CIPSHUT in decrypting process.
8. Fixed a bug that SIM Card cannot be recognized after read or delete SMS in "TIM" card.

**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](http://www.sim.com/wm)