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N706B

AT Commands Manual

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Contents

1 Basic Commands 1

2 SMS Command 24

3 □□ 36

Chapter 1 Basic Commands

1.1 ATI Get Module Manufacturer Information

Get module manufacturer information, including manufacturer, model, and version. Command Format

1.1.1

□□□

```
ATI
```

□□□

```
<CR><LF><manufacturer>
<CR><LF><module_version>
<CR><LF><soft_version>
<CR><LF>OK<CR><LF>
```

1.1.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.1.3

```
ATI

OK
```


1.1.4

Example 1

1.2 AT+GMR Query Version Information

Query software version information. Command Format

1.2.1

□□□

```
AT+GMR
```

□□□

```
<CR><LF>+GMR: <reversion>
<CR><LF>OK<CR><LF>
```

1.2.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.2.3

```
AT+CSMS=1

+CSMS: 1,1,1
OK
```

1.2.4

Example 2

1.3 AT+CSQ Get Signal Strength

Query received signal strength <rssi>. Command Format

1.3.1

□□□

```
AT+CSQ
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.3.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.3.3

```
AT+CSQ

OK
```

1.3.4

Example 3

1.4 AT+CREG Query Network Registration Status

Query the current network registration status of the module. Command Format

1.4.1

□□□

```
AT+CREG
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.4.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□

- 1□□□

1.4.3

```
AT+CREG

OK
```

1.4.4

See Example 4

1.5 AT+CEREG Get EPS Network Registration Status

Query EPS network registration status. Command Format

1.5.1

□□□

```
AT+CEREG
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.5.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.5.3

```
AT+CEREG

OK
```

1.5.4

See Example 5

1.6 AT+COPS Network Selection

Query network. Command Format

1.6.1

□□□

```
AT+COPS
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.6.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.6.3

```
AT+COPS

OK
```

1.6.4

See Example 6

1.7 AT+CIMI Query International Mobile Subscriber Identity Code

Obtain the International Mobile Subscriber Identity (IMSI). Command Syntax

1.7.1

□□□

```
AT+CIMI
```

□□□

```
<CR><LF>OK<CR><LF>
```


1.7.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.7.3

```
AT+CIMI

OK
```

1.7.4

See Example 7

1.8 AT+CGSN Get Communication Module IMEI Number

Obtain the product serial number of the module, which is the IMEI number (International Mobile Equipment Identity).
Command Syntax

1.8.1

□□□

```
AT+CGSN
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.8.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.8.3

```
AT+CGSN

OK
```

1.8.4

See Example 8

1.9 AT+GSN Get Communication Module IMEI Number

Obtain the product serial number of the module, which is the IMEI number (International Mobile Equipment Identity).
Command Syntax

1.9.1

□□□

```
AT+GSN
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.9.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.9.3

```
AT+GSN

OK
```

1.9.4

See Example 9

1.10 AT+CCID Get SIM Card Identifier

Get the ICCID of the SIM card. Command Format

1.10.1

□□□

```
AT+CCID
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.10.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.10.3

```
AT+CCID

OK
```

1.10.4

See Example 10

1.11 AT+CGMM Query Module Model

Query the module model. Command Format

1.11.1

□□□

```
AT+CGMM
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.11.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.11.3

```
AT+CGMM

OK
```

1.11.4

See Example 11

1.12 AT+GMM Query Module Model

Query the module model. Command Format

1.12.1

□□□

```
AT+GMM
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.12.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.12.3

```
AT+GMM

OK
```

1.12.4

See Example 12

1.13 AT+IPR Set Module Baud Rate

Set the module baud rate, saved by default when powered off. If the baud rate query returns 0, it indicates that the module baud rate is adaptive. The default is adaptive baud rate (Note: adaptive baud rate does not exceed 115200).
Command Format

1.13.1

□□□

```
AT+IPR
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.13.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.13.3

```
AT+IPR

OK
```

1.13.4

Example 13

1.14 AT+CFUN Set Module Function

Select the module's function by setting <fun>. <fun> only supports certain values. This parameter is not saved when powered off. Command Format

1.14.1

□□□

```
AT+CFUN
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.14.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.14.3

```
AT+CFUN

OK
```

1.14.4

Example 14

1.15 AT+CMUX Serial Port Multiplexing Command

Enable the communication module's serial port multiplexing function. Based on a physical communication serial port, virtualize two or even more serial ports through a standardized protocol, generally virtualizing three serial ports, one for external protocol stack dial-up internet access, and the other two for sending and receiving AT commands. It is recommended to use AT+CMUX=0 to enable the serial port multiplexing function. Command Format

1.15.1

□□□

```
AT+CMUX
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.15.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.15.3

```
AT+CMUX

OK
```

1.15.4

Example 15

1.16 AT+CCLK Clock Management

Set and query the module's real-time clock. The set time takes effect immediately, is saved during power off, and the default clock is in the 0 timezone, using 1/4 timezone. Command Format

1.16.1

□□□

```
AT+CCLK
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.16.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.16.3

```
AT+CCLK

OK
```

1.16.4

Example 16

1.17 AT+CPIN Input PIN Code

Query the PIN status and input the PIN code. To input the PIN code, the current SIM card must be locked (AT+CLCK=”SC”,1,”1234”) and the module must be restarted to input the PIN code. After three incorrect PIN entries, a PUK code will be required to unlock. Command Format

1.17.1

□□□

```
AT+CPIN
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.17.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.17.3

```
AT+CPIN

OK
```

1.17.4

Example 17

1.18 AT+CLCK PIN Enable and Query Function Command

Lock, unlock, and query MT and network devices. Set this parameter, and it will take effect after restarting the module.
Command Format

1.18.1

□□□

```
AT+CLCK
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.18.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.18.3

```
AT+CLCK

OK
```

1.18.4

Example 18

1.19 AT+CPWD Change Password Command

Change the password for the module lock function. To change the PIN code, the SIM card must be locked first (AT+CLCK=”SC”,1,”1234”). Command Format

1.19.1

□□□

```
AT+CPWD
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.19.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.19.3

```
AT+CPWD

OK
```

1.19.4

Example 19

1.20 AT+CGDCONT Set PDP Format

Set the PDP (Packet Data Protocol) format for GPRS. The maximum length allowed for APN is 50. Command Format

1.20.1

□□□

```
AT+CGDCONT
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.20.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.20.3

```
AT+CGDCONT

OK
```

1.20.4

Example 20

1.21 AT+XGAUTH User Authentication

PDP authentication. This command should be placed after the AT+CGDCONT command. Currently, there is a growing demand for user identity authentication in various places within private networks, using the internal protocol stack, this command needs to be used, so please add this command in the code flow. The default username and password for Unicom cards are “card” and “card”. <cid> corresponds to <cid> in +CGDCONT. The maximum string length allowed for <name> and <pwd> is 50. Command Format

1.21.1

□□□

```
AT+XGAUTH
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.21.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.21.3

```
AT+XGAUTH

OK
```

1.21.4

Example 21

1.22 AT+CGATT Set GPRS Attach and Detach

This command is used to query and set GPRS attach and detach. It does not persist after power off. By default, the module actively performs GPRS attach. Before establishing a PPP connection, ensure that GPRS is in the attached state. Add the query command AT+CGATT?: If the return value is 1, you can directly proceed with the PPP connection; if the return value is 0, manual attachment is required, i.e., AT+CGATT=1. Command Format

1.22.1

□□□

```
AT+CGATT
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.22.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.22.3

```
AT+CGATT

OK
```

1.22.4

Example 22

1.23 ATE1 /ATE0: Turn On & Off Echo

Turn on (or off) the module's AT command echo function. The module's default echo function is in the on state. This setting does not persist after power off. Command Format

1.23.1

□□□

```
ATE1
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.23.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.23.3

```
ATE1

OK
```

1.23.4

Example 23

1.24 ATD *99#: GPRS

Use an external protocol stack to perform GPRS dialing connection. Before dialing, ensure that CREG has registered successfully and that the APN is set. Command Format

1.24.1

□□□

```
ATD
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.24.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.24.3

```
ATD

OK
```

1.24.4

Example 24

1.25 AT+CESQ Extended Signal Strength

Query extended signal strength.

1.25.1

□□□

```
AT+CESQ
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.25.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.25.3

```
AT+CESQ

OK
```

1.25.4

See Example 25

1.26 AT+NWDNS Domain Name Resolution

After dialing with the built-in protocol stack, query the DNS resolution result. This command can only be executed after successfully dialing with AT+XIIC command. The domain name is not validated for correctness; ensure the correctness of the input content. Command format

1.26.1

□□□

```
AT+NWDNS
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.26.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.26.3

```
AT+NWDNS

OK
```

1.26.4

See Example 26

1.27 AT+NWENPWRSAVE Sleep Setting

Set whether to allow the module to enter sleep mode. This command does not save settings after power off. The module DTR signal is low by default: After sending the command to allow entering sleep mode, and the module DTR signal is low (or high), all circuits of the module must be allowed to enter sleep state for the module to enter sleep. Command format

1.27.1

□□□

```
AT+NWENPWRSAVE
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.27.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.27.3

```
AT+NWENPWRSAVE

OK
```

1.27.4

See Example 27

1.28 AT+NWPWROFF Module Power Off Command

Module power off command. Before sending AT+NWPWROFF, the POWERKEY pin level of the module must be suspended or pulled high. After returning OK, if a reboot is needed, the POWERKEY pin level can be pulled low. Command Format

1.28.1

□□□

```
AT+NWPWROFF
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.28.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.28.3

```
AT+NWPWROFF

OK
```

1.28.4

Example 28

1.29 AT+NWRFTEST Module Strong Transmit and Receive Command (For Testing Only)

Used to verify the module's strong transmit and receive capabilities in test mode, only testing the transmit power and receive power accuracy at the center frequency of each frequency band. Due to platform limitations, there are some errors in the accuracy of strong receive and transmit tests. Strong transmit testing can only verify maximum transmit power of 23dB and 10dB, other values cannot be verified. Command Format

1.29.1

□□□

```
AT+NWRFTEST
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.29.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.29.3

```
AT+NWRFTEST

OK
```

1.29.4

Example 29

1.30 AT+NSTGETRSSI Get Receive Power of the Module in Strong Receive Mode (For Testing Only)

Used to verify the module's receive power in test mode, strong receive test accuracy will have some errors. Command Format

1.30.1

□□□

```
AT+NSTGETRSSI
```

□□□

```
<CR><LF>OK<CR><LF>
```

1.30.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

1.30.3

```
AT+NSTGETRSSI

OK
```

1.30.4

Example 30

Chapter 2 SMS Command

2.1 AT+CSMS Select SMS Service

Supported short messages include: sending (SMS-MO), receiving (SMS-MT), cell broadcast (SMS-CB).

2.1.1

□□□

```
AT+CSMS=<service><CR>
```

□□□

```
<CR><LF>+CSMS: <mt>,<mo>,<bm>
<CR><LF>OK<CR><LF>
Or
<CR><LF>ERROR<CR><LF>,<CR><LF>+CSMS: <service>,<mt>,<mo>,<bm>
<CR><LF>OK<CR><LF>,<CR><LF>+CSMS: (list of supported <service>s)
<CR><LF>OK<CR><LF>
```

□□□

```
AT+CSMS?<CR>
```

□□□

```
OK
```

□□□

```
AT+CSMS=?<CR>
```

□□□

```
OK
```


2.1.2

- **<service>** SMS service mode selection
- 0 GSM03.40/GSM03.41 Phase 2
- 1 GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>** Downlink/Uplink/Broadcast support
- 0 Not supported
- 1 Supported

2.1.3

```
AT+CSMS=1

+CSMS: 1,1,1
OK
AT+CSMS=2

ERROR
AT+CSMS?

+CSMS: 1,1,1,1
OK
AT+CSMS=?

+CSMS: (0,1)
OK
```

2.1.4

Supports multiple short message service types

2.2 AT+CPMS Preferred SMS Storage

For preferred SMS storage. Command format

2.2.1

```
AT+CPMS
```

```
<CR><LF>OK<CR><LF>
```

2.2.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.2.3

```
AT+CPMS

OK
```

2.2.4

See example 32

2.3 AT+CMGF Set Short Message Mode

Set the input mode for SMS. Command format

2.3.1

□□□

```
AT+CMGF
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.3.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.3.3

```
AT+CMGF

OK
```

2.3.4

See example 33

2.4 AT+CSCS Set TE Character Set

Set the format of the TE character set. Command Format

2.4.1

□□□

```
AT+CSCS
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.4.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.4.3

```
AT+CSCS

OK
```

2.4.4

Example 34

2.5 AT+CNMI Set SMS Indication Format

Set how the module notifies the user after receiving a short message from the network. Command Format

2.5.1

□□□

```
AT+CNMI
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.5.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.5.3

```
AT+CNMI

OK
```

2.5.4

Example 35

2.6 AT+CMGR Read Short Message

Read the short message in the current storage (must be set in advance using the AT+CPMS command). If the status of the received SMS is unread, executing this command will change the SMS storage status to read. Command Format

2.6.1

□□□

```
AT+CMGR
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.6.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.6.3

```
AT+CMGR

OK
```

2.6.4

Example 36

2.7 AT+CMGL Message List

Read a certain type of stored SMS, the messages will be read from the current storage selected by the +CPMS command.
Command Format

2.7.1

□□□

```
AT+CMGL
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.7.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.7.3

```
AT+CMGL

OK
```

2.7.4

See Example 37

2.8 AT+CMGS Send Short Message

Send a short message from the module to the network, after the short message is successfully sent, the network returns the reference value <mr> to the module. Command Format

2.8.1

□□□

```
AT+CMGS
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.8.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.8.3

```
AT+CMGS

OK
```

2.8.4

See Example 38

2.9 AT+CMGW Write Short Message

Write a short message to the storage, after successful storage, return the location information <index>. Command Format

2.9.1

□□□

```
AT+CMGW
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.9.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.9.3

```
AT+CMGW

OK
```

2.9.4

See Example 39

2.10 AT+CMSS Send Saved Short Message

Send the short message (SMS-SUBMIT) located at the position specified by <index> in the memory. After the short message is successfully sent, the network returns the reference value <mr> to the terminal. Command Format

2.10.1

□□□

```
AT+CMSS
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.10.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.10.3

```
AT+CMSS

OK
```

2.10.4

Example 40

2.11 AT+CMGD Delete Short Message

Delete short messages from the current memory. Command Format

2.11.1

□□□

```
AT+CMGD
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.11.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.11.3

```
AT+CMGD

OK
```

2.11.4

Example 41

2.12 AT+CSCA SMS Center Number

Set the SMS center number. This command is not supported in CDMA mode. Command Format

2.12.1

□□□

```
AT+CSCA
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.12.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.12.3

```
AT+CSCA

OK
```

2.12.4

Example 42

2.13 AT+CSMP Set Text Mode Parameters

In text mode, select the required values for additional parameters, set the validity period starting from when the message is received from the SMSC, or define the absolute time that terminates the validity period. Command Format

2.13.1

□□□

```
AT+CSMP
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.13.2

- **<service>**□ □□□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.13.3

```
AT+CSMP

OK
```

2.13.4

See Example 43

2.14 AT+CSDH Display Text Mode Parameters

Set whether to display detailed header information in the result code in text mode. This command is valid in SMS text mode and requires sending AT+CMGF=1 to set to text mode. Command Format

2.14.1

□□□

```
AT+CSDH
```

□□□

```
<CR><LF>OK<CR><LF>
```

2.14.2

- **<service>**□ □□□□□□□□
- 0□GSM03.40/GSM03.41 Phase 2
- 1□GSM03.40/GSM03.41 Phase 2+
- **<mt>,<mo>,<bm>**□ □□/□□/□□□□
- 0□□□□
- 1□□□

2.14.3

```
AT+CSDH

OK
```

2.14.4

See Example 44

Chapter 3 □□

