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# **CN-GPRS-485**

## **AT Commands**

File Version: V1.0.0

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# 1.AT Commands

## 1.1. Error Code

Error code	Info
58	Invalid command or command format error
3	Incorrect command parameter type or missing parameters

## 1.2. Commands

NO.	Command	Function
<b>Management command</b>		
1	H	Help information
2	Z	Module reboot
3	E	Does query / settings open instruction recall
4	ENTM	Exit command mode
5	WKMOD	Query / setup work mode
6	CALEN	Query / settings enable call function
7	NATEN	Query / settings enable network AT command
8	UATEN	Query / settings enable serial port AT command in transparent mode
9	CMDPW	Query / set command password
10	CACHEN	Query / settings allow cache data
11	STMSG	Query / set module startup information
12	RSTIM	Query / setup restart time
<b>Configuration parameter command</b>		
13	S	Save current settings
14	RELD	Restore user default settings
15	CLEAR	Restore original factory settings
16	CFGTF	Save the current settings as default settings.
<b>Information query command</b>		
17	VER	Query version information
18	SN	Query SN code
19	ICCID	Query ICCID code
20	IMEI	Query IMEI code
21	CNUM	Query the local telephone number
<b>Serial port parameter command</b>		
22	UART	Query / set serial parameters
23	RFCEN	Query / settings enable class RFC2217 functions
<b>Net command</b>		
24	APN	Query / set APN information
25	SOCKA	Query / setup socket A parameter

26	SOCKB	Query / setup socket B parameter
27	SOCKC	Query / setup socket C parameter
28	SOCKD	Query / setup socket D parameter
29	SOCKAEN	Query / setup whether to enable socket A
30	SOCKBEN	Query / setup whether to enable socket B
31	SOCKCEN	Query / setup whether to enable socket C
32	SOCKDEN	Query / setup whether to enable socket D
33	SOCKASL	Query / setup enable socket A short connections
34	SOCKBSL	Query / setup enable socket B short connections
35	SOCKCSL	Query / setup enable socket C short connections
36	SOCKDSL	Query / setup enable socket D short connections
37	SOCKALK	Query socket A connection state
38	SOCKBLK	Query socket B connection state
39	SOCKCLK	Query socket C connection state
40	SOCKDLK	Query socket D connection state
41	SOCKRSTIM	Query / setup whether to display socket ID function
42	SHORTIM	Query / setup connection failure restart time
43	SOCKIDEN	Query / setup short link timeout time
44	CIP	Query local IP (3.0.0 and later version support)
45	PING	PING directive (3.0.0 and later version support)
46	CSQ	Query signal strength
<b>Register command</b>		
47	REGEN	Query / settings enable registration package
48	REGTP	Query / settings register package content type
49	REGID	Query / settings register ID (for D2D function)
50	REGDT	Query / settings custom registration information
51	REGSND	Query / settings register packet sending mode
<b>Heartbeat command</b>		
52	HEARTEN	Query / settings enable heartbeat package
53	HEARTDT	Query / settings heartbeat data
54	HEARTTP	Query / settings heartbeat packet delivery mode
55	HEARTTM	Query / settings heartbeat packet interval
<b>HTTPD command</b>		
56	HTPTP	Query / setup HTTP operate mode
57	HTPURL	Query/setup URL
58	HTPSV	Query/setup remote IP and port
59	HTPHD	Query/setup head info of HTTP protocol
60	HTPPK	Query/setup whether to turn on HEAD filtering function
61	HTPTIM	Query setup HTTP timeout time
<b>SMS command</b>		
62	DSTNUM	Target phone number
63	SMSSEND	Sending short messages in instruction mode
<b>USR-Cloud function</b>		

64	CLOUDEN	Set enable USR-Cloud
65	CLOUDID	Set USR-Cloud 20 bit ID
66	CLOUDPA	Set USR-Cloud 8 bit password
<b>Other function</b>		
67	LBS	Query base station location information

### 1.2.1.AT+H

Function: command for help

Format: AT+H{CR}{CR}{LF}help message{CR}{LF}{CR}{LF}OK{CR}{LF}

### 1.2.2.AT+Z

Function: command for reboot

Format: AT+Z{CR}{CR}{LF}OK{CR}{LF}

### 1.2.3.AT+E

Function: Query / set AT command's display state

Format:

Query parameter description:

AT+E=? {CR} {CR} {LF}+E:< "on", "off" >{CR} {LF} {CR} {LF}OK {CR} {LF}

Query the current parameter value:

AT+E{CR} or AT+E? {CR}

{CR} {LF}+E:status{CR} {LF} {CR} {LF}OK {CR} {LF}

Set up:

AT+E=status{CR} {CR} {LF}OK {CR} {LF}

Parameters:

Status: status of display, including:

"On": open

"Off": close

The default is "on".

### 1.2.4.AT+ENTM

Function: Set module to return to work mode before

Format: AT+ENTM{CR} {CR} {LF}OK {CR} {LF}

### 1.2.5.AT+WKMOD

Function: query / set module working mode.

Format:

Query parameter description:

AT+WKMOD=? {CR}

{CR} {LF}+WKMOD:< "CMD", "SMS", "NET", "HTTPD" >{CR} {LF} {CR} {LF}OK {CR} {LF}

Query the current parameter value:

---

AT+WKMOD{CR} or AT+WKMOD? {CR}  
{CR} {LF}+WKMOD:mode{CR} {LF} {CR} {LF}OK {CR} {LF}

Set up:

AT+WKMOD=mode{CR} {CR} {LF}OK {CR} {LF}

Parameters:

Mode: working mode

"CMD": AT instruction mode

"SMS": short message transmission mode

"NET": network transmission mode

"HTTPD": HTTPD mode

The default is "NET".

Example: AT+WKMOD= "NET"

## 1.2.6.AT+CALEN

Function: query / set whether to enable call function.

Format:

Query parameter description:

AT+CALEN=? {CR}  
{CR} {LF}+CALEN:< "on", "off" >{CR} {LF} {CR} {LF}OK {CR} {LF}

Query the current parameter value:

AT+CALEN{CR} or AT+CALEN? {CR}  
{CR} {LF}+CALEN:status{CR} {LF} {CR} {LF}OK {CR} {LF}

Set up:

AT+CALEN=status{CR} {CR} {LF}OK {CR} {LF}

Parameters:

Status: the enabling state of the call function, including:

"On": enabling

"Off": prohibition

The default is "off".

Example: AT+CALEN= "off"

## 1.2.7.AT+NATEN

Function: query / set whether to enable network AT instruction.

Format:

Query parameter description:

AT+NATEN=? {CR}  
{CR} {LF}+NATEN:< "on", "off" >{CR} {LF} {CR} {LF}OK {CR} {LF}

Query the current parameter value:

AT+NATEN{CR} or AT+NATEN? {CR}  
{CR} {LF}+NATEN:status{CR} {LF} {CR} {LF}OK {CR} {LF}

Set up:

AT+NATEN=status{CR}  
{CR} {LF}OK {CR} {LF}

---

Parameters:

Status: network AT command enabling state, including:

"On": enabling

"Off": prohibition

The default is "on".

Example: AT+NATEN= "on"

## 1.2.8.AT+UATEN

Function: query / set to enable serial port AT command in transparent mode.

Format:

Query parameter description:

```
AT+UATEN=? {CR}
```

```
{CR} {LF}+UATEN:<"on", "off">{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+UATEN{CR} or AT+UATEN? {CR}
```

```
{CR} {LF}+UATEN:status{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+UATEN=status {CR}
```

```
{CR} {LF}OK {CR} {LF}
```

Parameters:

Status: serial port AT command enable state in transparent mode, including:

"On": enabling

"Off": prohibition

The default is "off".

Example: AT+UATEN= "on"

## 1.2.9.AT+CMDPW

Function: query / set command password.

Format:

Query parameter description:

```
AT+CMDPW=? {CR}
```

```
{CR} {LF}+CMDPW:<"password">{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+CMDPW {CR} or AT+CMDPW? {CR}
```

```
{CR} {LF}+CMDPW: "password" {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+CMDPW= "password" {CR}
```

```
{CR} {LF}OK {CR} {LF}
```

Parameters:

Password: Command password, usr.cn by default, up to 6 bytes.

Example: AT+CMDPW= "meternet.pl"



---

## 1.2.10. AT+CACHEN

Function: query / set whether to open cached data.

Format:

Query parameter description:

```
AT+CACHEN=? {CR}
{CR} {LF}+CACHEN:< "on", "off" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+CACHEN{CR} or AT+CACHEN? {CR}
{CR} {LF}+CACHEN:status{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+CACHEN=status{CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Status: whether to open cached data, including:

"On": open

"Off": close

The default is "on".

Example: AT+CACHEN= "on"

## 1.2.11. AT+STMSG

Function: welcome information for enquiry / setting module.

Format:

Query parameter description:

```
AT+STMSG=? {CR}
{CR} {LF}+STMSG:< "welcome message" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+STMSG {CR} or AT+STMSG? {CR}
{CR} {LF}+STMSG: "welcome message" {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+STMSG= "welcome message" {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

"Welcome message": welcome information, module power-on boot, the active output of information, can be used to detect whether the module is properly driven, default to "USR-GM3 version number", up to 17 bytes.

Example: AT+ STMSG = "meternet.pl"

## 1.2.12. AT+RSTIM

Function: Query / set the module's automatic restart time, when the network does not have data when the arrival of the specified time will restart the module.

Format:

Query parameter description:

Query the current parameter value:

---

AT+RSTIM{CR} or AT+RSTIM? {CR}  
{CR} {LF}+RSTIM:time{CR} {LF} {CR} {LF}OK{CR} {LF}

Set up:

AT+RSTIM=time{CR}  
{CR} {LF}OK{CR} {LF}

Parameters:

Time: Auto restart time, unit seconds, default 1800 seconds, maximum 65535, set to 0 to turn off auto restart function.

Example: AT+ RSTIM =180

### 1.2.13. AT+S

Function: save the current settings, and the module will be restarted.

Format:

Query the current parameter value:

AT+S{CR}  
{CR} {LF}OK{CR} {LF}

### 1.2.14. AT+RELD

Function: restore user default settings, and module will restart.

Format:

Query the current parameter value:

AT+RELD{CR}  
{CR} {LF}OK{CR} {LF}

### 1.2.15. AT+CLEAR

Function: restore the factory settings, and the module will be restarted.

Format:

Query the current parameter value:

AT+CLEAR{CR}  
{CR} {LF}OK{CR} {LF}

### 1.2.16. AT+CFGTF

Function: save the current operation parameters of the module as default parameters.

Format:

Query the current parameter value:

AT+CFGTF{CR}  
{CR} {LF}OK{CR} {LF}

### 1.2.17. AT+VER

Function: the firmware version of the query module.

Format:

---

Query the current parameter value:

AT+VER{CR} or AT+VER? {CR}  
{CR}{LF}+VER:version{CR}{LF}{CR}{LF}OK{CR}{LF}

Parameters:

Version: firmware version number

## 1.2.18. AT+SN

Function: query the SN code of the module.

Format:

Query the current parameter value:

AT+SN{CR} or AT+SN? {CR}  
{CR}{LF}+SN:code{CR}{LF}{CR}{LF}OK{CR}{LF}

Parameters:

code:SN code

## 1.2.19. AT+ICCID

Function: query the ICCID code of the module.

Format:

Query the current parameter value:

AT+ICCID{CR} or AT+ICCID? {CR}  
{CR}{LF}+ICCID:code{CR}{LF}{CR}{LF}OK{CR}{LF}

Parameters:

code:ICCID code

## 1.2.20. AT+IMEI

Function: query the IMEI code of the module.

Format:

Query the current parameter value:

AT+IMEI{CR} or AT+IMEI? {CR}  
{CR}{LF}+IMEI:code{CR}{LF}{CR}{LF}OK{CR}{LF}

Parameters:

Code:IMEI code

## 1.2.21. AT+CNUM

Function: inquire the phone number of this machine.

Format:

Query the current parameter value:

AT+CNUM{CR} or AT+CNUM? {CR}  
{CR}{LF}+CNUM:phone number{CR}{LF}{CR}{LF}OK{CR}{LF}

Parameters:

Phone number: local telephone number

---

## 1.2.22. AT+UART

Function: query / set serial parameters.

Format:

Query parameter description:

```
AT+UART=? {CR}
```

```
{CR} {LF}+UART:
```

```
<2400,4800,9600,14400,19200,28800,33600,38400,57600,115200,230400,460800,921600>, < "NONE",  
"ODD", "EVEN">, <7,8>, <1,2>, < "NONE", "CRTS", "RS485"> {CR CR} {LF} {CR LF} {LF} {
```

Query the current parameter value:

```
AT+UART{CR} or AT+UART? {CR}
```

```
{CR} {LF}+UART:baud, parity, data bit, stop bit, flow control{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Set up:

```
AT+UART=baud, parity, data bit, stop bit, flow control{CR}
```

```
{CR} {LF}OK{CR} {LF}
```

Parameters:

Baud: baud rate, including: 2400, 4800, 9600, 14400, 19200, 28800, 33600, 38400, 57600, 115200, 230400, 460800, 921600

Parity: calibration mode, including:

"NONE": no calibration.

"ODD": odd check

"EVEN": parity check

Data bit: data bits, including:

7:7 bit data

8:8 bit data

Stop bit: stop bits, including:

1:1 bit stop bit

2:2 bit stop bit

Flow control: flow control, including:

"NONE": no flow control.

"RS485": using RS485 function

The default serial port parameter is 115200, "NONE", 8,1, "RS485".

Example: AT+UART=115200, "NONE", 8,1, "RS485".

## 1.2.23. AT+RFCEN

Function: query / set whether enabling RFC2217 function.

Format:

Query parameter description:

```
AT+RFCEN=? {CR}
```

```
{CR} {LF}+RFCEN:< "on", "off" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+RFCEN{CR} or AT+RFCEN? {CR}
```

```
{CR} {LF}+RFCEN:status{CR} {LF} {CR} {LF}OK{CR} {LF}
```

---

Set up:

```
AT+RFCEN=status{CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

Status: RFC2217 enabled state, including:

"On": enabling

"Off": prohibition

The default is "off".

Example: AT+ RFCEN = "on"

## 1.2.24. AT+APN

Function: query / set APN code.

Format:

Query parameter description:

```
AT+APN=? {CR}
{CR} {LF} +APN:<"code"> << name >> << pass >> {CR} {LF} {CR} {LF} OK {CR} {LF} >
```

Query the current parameter value:

```
AT+APN{CR} or AT+APN? {CR}
{CR} {LF} +APN: "code", "name", "pass" {CR} {LF} {CR} {LF} OK {CR} {LF}
```

Set up:

```
AT+APN= "code", "name", "pass" {CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

code:APN, default CMNET, up to 50 bytes.

The name: user name is not blank, up to 50 bytes, and the default is empty.

The pass: password is not blank, up to 50 bytes, and the default is empty.

Example: AT+APN= "usr", "usr.cn", "123".

## 1.2.25. AT+SOCKA

Function: query / set the parameters of socket A.

Format:

Query parameter description:

```
AT+SOCKA=? {CR}
{CR} {LF} +SOCKA:<protocol>, <"address">, <port> {CR} {LF} {CR} {LF} OK {CR} {LF}
```

Query the current parameter value:

```
AT+SOCKA{CR} or AT+SOCKA? {CR}
{CR} {LF} +SOCKA: protocol, "address", port {CR} {LF} {CR} {LF} OK {CR} {LF}
```

Set up:

```
AT+SOCKA=protocol, "address", port {CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

Protocol: communication protocol, default TCP, including:

"TCP": TCP protocol

---

"UDP": UDP protocol

Address: server address. This address can be domain name or IP, up to 100 bytes, defaults to test.usr.cn

Port: server port, default 2317, range 1~65535

Example: AT+SOCKA="TCP", "test.usr.cn", 2317

## 1.2.26. AT+SOCKB

Function: query / set the parameters of socket B.

Format:

Query parameter description:

AT+SOCKB=? {CR}

{CR} {LF}+SOCKB:<protocol>, <"address">, <port>{CR} {LF} {CR} {LF}OK {CR} {LF}

Query the current parameter value:

AT+SOCKB{CR} or AT+SOCKB? {CR}

{CR} {LF}+SOCKB: protocol, "address", port{CR} {LF} {CR} {LF}OK {CR} {LF}

Set up:

AT+SOCKB=protocol, "address", port{CR}

{CR} {LF}OK {CR} {LF}

Parameters:

Protocol: communication protocol, default TCP, including:

"TCP": TCP protocol

"UDP": UDP protocol

Address: server address, this address can be domain name or IP, up to 100 bytes, default test.usr.cn

Port: server port, default 2317, range 1~65535

Example: AT+SOCKB="TCP", "test.usr.cn", 2317

## 1.2.27. AT+SOCKC

Function: query / set the parameters of socket C.

Format:

Query parameter description:

AT+SOCKC=? {CR}

{CR} {LF}+SOCKC:<protocol>, <"address">, <port>{CR} {LF} {CR} {LF}OK {CR} {LF}

Query the current parameter value:

AT+SOCKC{CR} or AT+SOCKC? {CR}

{CR} {LF}+SOCKC: protocol, "address", port{CR} {LF} {CR} {LF}OK {CR} {LF}

Set up:

AT+SOCKC=protocol, "address", port{CR}

{CR} {LF}OK {CR} {LF}

Parameters:

Protocol: communication protocol, default TCP, including:

"TCP": TCP protocol

"UDP": UDP protocol

Address: server address, this address can be domain name or IP, up to 100 bytes, default test.usr.cn

Port: server port, default 2317, range 1~65535

---

Example: AT+SOCKC= "TCP", "test.usr.cn", 2317

## 1.2.28. AT+SOCKD

Function: query / set the parameters of socket D.

Format:

Query parameter description:

AT+SOCKD=? {CR}

{CR} {LF}+SOCKD:<protocol>, <"address">, <port>{CR} {LF} {CR} {LF}OK{CR} {LF}

Query the current parameter value:

AT+SOCKD{CR} or AT+SOCKD? {CR}

{CR} {LF}+SOCKD: protocol, "address", port{CR} {LF} {CR} {LF}OK{CR} {LF}

Set up:

AT+SOCKD=protocol, "address", port{CR}

{CR} {LF}OK{CR} {LF}

Parameters:

Protocol: communication protocol, default TCP, including:

"TCP": TCP protocol

"UDP": UDP protocol

Address: server address, this address can be domain name or IP, up to 100 bytes, default test.usr.cn

Port: server port, default 2317, range 1~65535

Example: AT+SOCKD= "TCP", "test.usr.cn", 2317

## 1.2.29. AT+SOCKAEN

Function: query / set whether to enable socket A.

Format:

Query parameter description:

AT+SOCKAEN=? {CR}

{CR} {LF}+SOCKAEN:<"on", "off">{CR} {LF} {CR} {LF}OK{CR} {LF}

Query the current parameter value:

AT+SOCKAEN{CR} or AT+SOCKAEN? {CR}

{CR} {LF}+SOCKAEN:status{CR} {LF} {CR} {LF}OK{CR} {LF}

Set up:

AT+SOCKAEN=status{CR}

{CR} {LF}OK{CR} {LF}

Parameters:

Status: socket A function enabling state, including:

"On": enabling

"Off": prohibition

The default is "on".

Example: AT+SOCKAEN= "on"

---

### 1.2.30. AT+SOCKBEN

Function: query / set whether to enable socket B.

Format:

Query parameter description:

```
AT+SOCKBEN=? {CR}
{CR} {LF}+SOCKBEN:< "on", "off" >{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Query the current parameter value:

```
AT+SOCKBEN{CR} or AT+SOCKBEN? {CR}
{CR} {LF}+SOCKBEN:status {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+SOCKBEN=status{CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Status: socket B function enabling state, including:

"On": enabling

"Off": prohibition

The default is "on".

Example: AT+SOCKBEN= "on"

### 1.2.31. AT+SOCKCEN

Function: query / set whether to enable socket C.

Format:

Query parameter description:

```
AT+SOCKCEN=? {CR}
{CR} {LF}+SOCKCEN:< "on", "off" >{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Query the current parameter value:

```
AT+SOCKCEN{CR} or AT+SOCKCEN? {CR}
{CR} {LF}+SOCKCEN:status {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+SOCKCEN=status{CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Status: socket C function enabling state, including:

"On": enabling

"Off": prohibition

The default is "on".

Example: AT+SOCKCEN= "on"

### 1.2.32. AT+SOCKDEN

Function: query / set whether to enable socket D.

Format:

Query parameter description:



---

```
AT+SOCKDEN=? {CR}
{CR} {LF}+SOCKDEN:< "on", "off" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+SOCKDEN{CR} or AT+SOCKDEN? {CR}
{CR} {LF}+SOCKDEN:status {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+SOCKDEN=status {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Status: socket D function enabling state, including:

"On": enabling

"Off": prohibition

The default is "on".

Example: AT+SOCKDEN= "on"

### 1.2.33. AT+SOCKASL

Function: query / set up the connection mode of socket A for TCP communication.

Format:

Query parameter description:

```
AT+SOCKASL=? {CR}
{CR} {LF}+SOCKASL:< "short", "long" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+SOCKASL{CR} or AT+SOCKASL? {CR}
{CR} {LF}+SOCKASL:type {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+SOCKASL=type {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Type: connection mode, including:

"Short": short connection

"Long": long connection

The default is "long".

Example: AT+SOCKASL= "long"

### 1.2.34. AT+SOCKBSL

Function: query / set up the connection mode of socket B for TCP communication.

Format:

Query parameter description:

```
AT+SOCKBSL=? {CR}
{CR} {LF}+SOCKBSL:< "short", "long" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+SOCKBSL{CR} or AT+SOCKBSL? {CR}
{CR} {LF}+SOCKBSL:type {CR} {LF} {CR} {LF}OK {CR} {LF}
```

---

Set up:

```
AT+SOCKBSL=type{CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

Type: connection mode, including:

"Short": short connection

"Long": long connection

The default is "long".

Example: AT+SOCKBSL= "long"

### 1.2.35. AT+SOCKCSL

Function: query / set up the connection mode of socket C for TCP communication.

Format:

Query parameter description:

```
AT+SOCKCSL=? {CR}
{CR} {LF} +SOCKCSL:< "short", "long" >{CR} {LF} {CR} {LF} OK {CR} {LF}
```

Query the current parameter value:

```
AT+SOCKCSL{CR} or AT+SOCKCSL? {CR}
{CR} {LF} +SOCKCSL:type{CR} {LF} {CR} {LF} OK {CR} {LF}
```

Set up:

```
AT+SOCKCSL=type{CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

Type: connection mode, including:

"Short": short connection

"Long": long connection

The default is "long".

Example: AT+SOCKCSL= "long"

### 1.2.36. AT+SOCKDSL

Function: query / set up the connection mode of socket D for TCP communication.

Format:

Query parameter description:

```
AT+SOCKDSL=? {CR}
{CR} {LF} +SOCKDSL:< "short", "long" >{CR} {LF} {CR} {LF} OK {CR} {LF}
```

Query the current parameter value:

```
AT+SOCKDSL{CR} or AT+SOCKDSL? {CR}
{CR} {LF} +SOCKDSL:type{CR} {LF} {CR} {LF} OK {CR} {LF}
```

Set up:

```
AT+SOCKDSL=type{CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

Type: connection mode, including:

---

"Short": short connection

"Long": long connection

The default is "long".

Example: AT+SOCKDSL= "long"

### 1.2.37. AT+SOCKALK

Function: query whether socket A has established a connection.

Format:

Query the current parameter value:

AT+SOCKALK{CR} or AT+SOCKALK? {CR}

{CR} {LF}+SOCKALK:status{CR} {LF} {CR} {LF}OK{CR} {LF}

Parameters:

Status:socket A connection status, including:

"Connected": connected

"Disconnected": unconnected

### 1.2.38. AT+SOCKBLK

Function: query whether socket B has established a connection.

Format:

Query the current parameter value:

AT+SOCKBLK{CR} or AT+SOCKBLK? {CR}

{CR} {LF}+SOCKBLK:status{CR} {LF} {CR} {LF}OK{CR} {LF}

Parameters:

Status:socket B connection status, including:

"Connected": connected

"Disconnected": unconnected

### 1.2.39. AT+SOCKCLK

Function: query whether socket C has established a connection.

Format:

Query the current parameter value:

AT+SOCKCLK{CR} or AT+SOCKCLK? {CR}

{CR} {LF}+SOCKCLK:status{CR} {LF} {CR} {LF}OK{CR} {LF}

Parameters:

Status:socket C connection status, including:

"Connected": connected

"Disconnected": unconnected

### 1.2.40. AT+SOCKDLK

Function: query whether socket D has established a connection.

Format:

Query the current parameter value:

---

AT+SOCKDLK{CR} or AT+SOCKDLK? {CR}  
{CR} {LF}+SOCKDLK:status{CR} {LF} {CR} {LF}OK{CR} {LF}

Parameters:

Status:socket D connection status, including:

"Connected": connected

"Disconnected": unconnected

## 1.2.41. AT+SOCKRSTM

Function: setup / query connection failure restart time

Format:

Query parameter description:

AT+ SOCKRSTM =? {CR}  
{CR} {LF}+ SOCKRSTM:<time>{CR} {LF} {CR} {LF}OK{CR} {LF}

Query the current parameter value:

AT+ SOCKRSTM {CR} or AT+ SOCKIDEN? {CR}  
{CR} {LF}+ SOCKRSTM:time{CR} {LF} {CR} {LF}OK{CR} {LF}

Set up:

AT+ SOCKRSTM =time{CR}  
{CR} {LF}OK{CR} {LF}

Parameters:

Time: restart time, unit second, default 60 seconds, maximum 65535 seconds.

**Note:** When users use multi-channel sockets, the module will automatically restart when one-way connections are abnormal, and can't be restored. Restart will affect other connections, in order to minimize the impact on other multi-way, customers can increase this time appropriately.

Example: AT+SOCKRSTM=180

## 1.2.42. AT+SHORTIM

Function: set / query short connection failure restart time

Format:

Query parameter description:

AT+ SHORTIM=? {CR}  
{CR} {LF}+ SHORTIM:<time>{CR} {LF} {CR} {LF}OK{CR} {LF}

Query the current parameter value:

AT+ SHORTIM {CR} or AT+ SOCKIDEN? {CR}  
{CR} {LF}+ SHORTIM:time{CR} {LF} {CR} {LF}OK{CR} {LF}

Set up:

AT+ SHORTIM =time{CR}  
{CR} {LF}OK{CR} {LF}

Parameters:

Time: restart time, unit second, default 10 seconds, maximum 65535 seconds.

Example: AT+SOCKRSTM=10

---

### 1.2.43. AT+SOCKIDEN

Function: set / query whether to display which socket the data comes from.

Format:

Query parameter description:

```
AT+ SOCKIDEN =? {CR}
{CR} {LF}+ SOCKIDEN:< "on", "off" >{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Query the current parameter value:

```
AT+ SOCKIDEN {CR} or AT+ SOCKIDEN? {CR}
{CR} {LF}+ SOCKIDEN:status{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Set up:

```
AT+ SOCKIDEN =status{CR}
{CR} {LF}OK{CR} {LF}
```

Parameters:

Status:

"On": opens the display socket ID function.

"Off": close the display of socket ID function.

Default "off"

Example: AT+SOCKIDEN= "on"

### 1.2.44. AT+CIP

Function: query local IP address.

Format:

Query the current connection IP address:

```
AT+ CIP {CR} or AT+ CIP? {CR}
{CR} {LF}+ CIP: {CR} {LF}SOCKET:IP{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Parameters:

SOCKET: the current link.

IP: the local IP address under the current link.

### 1.2.45. AT+PING

Function: test whether the specified address device is reachable, and whether the network connection is malfunctioning.

Format:

Query parameter description:

```
AT+ PING =? {CR}
{CR} {LF}+ PING:< "DNS/IP address" >{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Instruction usage:

```
AT+ PING= "DNS/IP address" {CR}
{CR} {LF}OK{CR} {LF}
```

Parameters:

DNS/IP address: domain name or IP address.

Example: AT+PING= "www.baidu.com"

---

## 1.2.46. AT+CSQ

Function: network signal strength of query module.

Format:

Query current signal value:

```
AT+CSQ{CR}
{CR}{LF}+CSQ: <rss>, <ber>{CR}{LF}{CR}{LF}OK{CR}{LF}
```

Parameters:

RSSI: signal quality

BER: bit error rate

Explanation: the signal quality is generally more than 20 normal, and the full value is 31.

## 1.2.47. AT+REGEN

Function: query / set whether to enable the registration of package functions.

Format:

Query parameter description:

```
AT+REGEN=? {CR}
{CR}{LF}+REGEN:<"on", "off">{CR}{LF}{CR}{LF}OK{CR}{LF}
```

Query the current parameter value:

```
AT+REGEN{CR} or AT+REGEN? {CR}
{CR}{LF}+REGEN:status{CR}{LF}{CR}{LF}OK{CR}{LF}
```

Set up:

```
AT+REGEN=status{CR}
{CR}{LF}OK{CR}{LF}
```

Parameters:

Status: Registration package function enabling state, including:

"On": open

"Off": close

The default is "off".

Example: AT+REGEN= "on"

## 1.2.48. AT+REGTP

Function: query / set the content type of the registration package.

Format:

Query parameter description:

```
AT+REGTP=? {CR}
{CR}{LF}+REGTP:<"ICCID", "IMEI", "REGID", "REGDT">{CR}{LF}{CR}{LF}OK{CR}{LF}
```

Query the current parameter value:

```
AT+REGTP{CR} or AT+REGTP? {CR}
{CR}{LF}+REGTP:type{CR}{LF}{CR}{LF}OK{CR}{LF}
```

Set up:

```
AT+REGTP=type{CR}
{CR}{LF}OK{CR}{LF}
```

---

Parameters:

Type: registration data types, including:

"ICCID": ICCID code

"IMEI": IMEI code

"REGID": registered ID

"REGDT": custom data

The default is "REGDT".

Example: AT+REGEN= "ICCID"

## 1.2.49. AT+REGID

Function: query / set up registration ID.

Format:

Query parameter description:

AT+REGID=? {CR}

{CR} {LF} +REGID:<id> {CR} {LF} {CR} {LF} OK {CR} {LF}

Query the current parameter value:

AT+REGID {CR} or AT+REGID? {CR}

{CR} {LF} +REGID:id {CR} {LF} {CR} {LF} OK {CR} {LF}

Set up:

AT+REGID=id {CR}

{CR} {LF} OK {CR} {LF}

Parameters:

ID: register ID, default 100, Max 65536.

Example: AT+REGID=123

## 1.2.50. AT+REGDT

Function: query / set custom registration package data.

Format:

Query parameter description:

AT+REGDT=? {CR}

{CR} {LF} +REGDT:<"data" > {CR} {LF} {CR} {LF} OK {CR} {LF}

Query the current parameter value:

AT+REGDT {CR} or AT+REGDT? {CR}

{CR} {LF} +REGDT: "data" {CR} {LF} {CR} {LF} OK {CR} {LF}

Set up:

AT+REGDT= "data" {CR}

{CR} {LF} OK {CR} {LF}

Parameters:

Data: Custom registration package data, hexadecimal string format, maximum 80 bytes, default 7777772E7573722E636E, with ASCII code for the expression of www.meternet.pl.

Example: AT+REGDT= "7777772E7573722E636E"

---

## 1.2.51. AT+REGSND

Function: query / set the sending mode of the registration package.

Format:

Query parameter description:

```
AT+REGSND=? {CR}
{CR} {LF}+REGSND:< "link", "data", "link&data" >{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Query the current parameter value:

```
AT+REGSND{CR} or AT+REGSND? {CR}
{CR} {LF}+REGSND:type{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Set up:

```
AT+REGSND=type{CR}
{CR} {LF}OK{CR} {LF}
```

Parameters:

Type: sending mode, including:

"Link": send when connection is established.

"Data": register packet data as the beginning of each packet data.

"Link& data": at the same time support the above two kinds.

The default is "link".

Example: AT+REGSND= "link"

## 1.2.52. AT+HEARTEN

Function: query / set whether to enable heartbeat package function.

Format:

Query parameter description:

```
AT+HEARTEN=? {CR}
{CR} {LF}+HEARTEN:< "on", "off" >{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Query the current parameter value:

```
AT+HEARTEN{CR} or AT+HEARTEN? {CR}
{CR} {LF}+HEARTEN:status{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Set up:

```
AT+HEARTEN=status{CR}
{CR} {LF}OK{CR} {LF}
```

Parameters:

Status: heartbeat package function enabling state, including:

"On": open

"Off": close

The default is "on".

Example: AT+HEARTEN= "on"

## 1.2.53. AT+HEARTDT

Function: query / set heartbeat data.

Format:



---

Query parameter description:

```
AT+HEARTDT=? {CR}
{CR} {LF}+HEARTDT:< "data" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+HEARTDT {CR} or AT+HEARTDT? {CR}
{CR} {LF}+HEARTDT: "data" {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+HEARTDT= "data" {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Data: Custom registration package data, hexadecimal string format, maximum length of 40 bytes, default 7777772E7573722E636E, with ASCII code is expressed as www.meternet.pl.

Example: AT+HEARTDT= "7777772E7573722E636E"

## 1.2.54. AT+HEARTTP

Function: query / set the sending mode of heartbeat package.

Format:

Query parameter description:

```
AT+HEARTTP=? {CR}
{CR} {LF}+HEARTTP:< "COM", "NET" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+HEARTTP {CR} or AT+HEARTTP? {CR}
{CR} {LF}+HEARTTP:type {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+HEARTTP=type {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Type: sending mode, including:

"COM": send heartbeat packets to the serial port.

"NET": send heartbeat packets to the network side.

The default is "NET".

Example: AT+HEARTTP= "NET"

## 1.2.55. AT+HEARTTM

Function: query / set the sending time of heartbeat packets.

Format:

Query parameter description:

```
AT+HEARTTM=? {CR}
{CR} {LF}+HEARTTM:<time> {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+HEARTTM {CR} or AT+HEARTTM? {CR}
{CR} {LF}+HEARTTM:time {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

---

```
AT+HEARTTM=time {CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

Time: sending interval time, the default is 30s, the maximum 65535s.

Example: AT+HEARTTM=60

## 1.2.56. AT+HTPTP

Function: query / set up HTTP request mode.

Format:

Query parameter description:

```
AT+HTPTP=? {CR}
{CR} {LF} +HTPTP:< "GET", "POST" >{CR} {LF} {CR} {LF} OK {CR} {LF}
```

Query the current parameter value:

```
AT+HTPTP{CR} or AT+HTPTP? {CR}
{CR} {LF} +HTPTP:type {CR} {LF} {CR} {LF} OK {CR} {LF}
```

Set up:

```
AT+HTPTP=type {CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

Type:HTTP request mode, including:

"GET": get mode

"POST": post mode

The default is "GET".

Example: AT+HTPTP= "GET"

## 1.2.57. AT+HTPURL

Function: query / set the URL of the HTTP request.

Format:

Query parameter description:

```
AT+HTPURL=? {CR}
{CR} {LF} +HTPURL:< "URL" >{CR} {LF} {CR} {LF} OK {CR} {LF}
```

Query the current parameter value:

```
AT+HTPURL{CR} or AT+HTPURL? {CR}
{CR} {LF} +HTPURL: "URL" {CR} {LF} {CR} {LF} OK {CR} {LF}
```

Set up:

```
AT+HTPURL= "URL" {CR}
{CR} {LF} OK {CR} {LF}
```

Parameters:

The URL of the URL:HTTP request is "/1.php?" by default, with a maximum length of 100 bytes.

Example: AT+HTPURL= "/1.php?"

---

## 1.2.58. AT+HTPSV

Function: query / set the server parameters of the HTTP request.

Format:

Query parameter description:

```
AT+HTPSV=? {CR}
{CR} {LF}+HTPSV:< "address" > <port>{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+HTPSV{CR} or AT+HTPSV? {CR}
{CR} {LF}+HTPSV: "address", port{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+HTPSV= "address", port{CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Address: Server address, which can be a domain name or IP, defaults to test.usr.cn, up to 100 bytes.

Port: server port, defaults to 80, range 1~65535

Example: AT+HTPSV= "test.usr.cn", 80

## 1.2.59. AT+HTPHD

Function: query / set the header information of HTTP request.

Format:

Query parameter description:

```
AT+HTPHD=? {CR}
{CR} {LF}+HTPHD:< "head" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+HTPHD{CR} or AT+HTPHD? {CR}
{CR} {LF}+HTPHD: "head" {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+HTPHD= "head" {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

The header information of the head:HTTP request is "Accept:text/html[0D][0A]" by default, with a maximum length of 200 bytes.

Example: AT+HTPHD= "Accept:text/html[0D][0A]Accept-Language:zh-CN[0D][0A]"

## 1.2.60. AT+HTPPK

Function: query / set HTTP Baotou filtering

Format:

Query parameter description:

```
AT+HTPPK=? {CR}
{CR} {LF}+HTPPK:< "on", "off" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+HTPPK{CR} or AT+HTPPK? {CR}
```

---

{CR} {LF}+HTPPK:status{CR} {LF} {CR} {LF}OK{CR} {LF}

Set up:

```
AT+ HTPPK=status{CR}
{CR} {LF}OK{CR} {LF}
```

Parameters:

Status: packet filtering enabling state, including:

"On": open

"Off": close

The default is "on".

Example: AT+HTPPK= "on"

## 1.2.61. AT+HTPTIM

Function: query / set HTTP timeout.

Format:

Query parameter description:

```
AT+HTPTIM=? {CR}
{CR} {LF}+HTPTIM:<"time">{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Query the current parameter value:

```
AT+ HTPTIM {CR} or AT+ HTPTIM? {CR}
{CR} {LF}+HTPTIM:time{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Set up:

```
AT+ HTPTIM =time{CR}
{CR} {LF}OK{CR} {LF}
```

Parameters:

Time: timeout time 1-65535 seconds, default 10 seconds.

Example: AT+HTPTIM=10

## 1.2.62. AT+DSTNUM

Function: target telephone number for inquiring / setting short message.

Format:

Query parameter description:

```
AT+DSTNUM=? {CR}
{CR} {LF}+DSTNUM:<"number">{CR} {LF} {CR} {LF}OK{CR} {LF}
```

Query the current parameter value:

```
AT+DSTNUM{CR} or AT+DSTNUM? {CR}
{CR} {LF}+DSTNUM: "number" {CR} {LF} {CR} {LF}OK{CR} {LF}
```

Set up:

```
AT+DSTNUM= "number" {CR}
{CR} {LF}OK{CR} {LF}
```

Parameters:

Number: the target phone number in the SMS transmission function, the default number is 1008610010, up to 20 bytes.

Example: AT+DSTNUM= "1008610010"

---

### 1.2.63. AT+SMSSEND

Function: send short message.

Format:

Query parameter description:

```
AT+SMSSEND=? {CR}
{CR} {LF}+SMSSEND:< "number" > <1,2,3>, <"data" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+SMSSEND= "number", type, "data" {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Number: target telephone number for short messages.

Type: encoding methods, including

1:ASCII encoding, compression

2:8 bit encoding, no compression

3:UCS8, in Chinese and English.

Data: content of short message

**Note:** The maximum length of SMS content is 160 bytes in mode ASCII, 140 bytes in mode 8 and 70 bytes in mode UCS8.

Example: AT+SMSSEND= "1008610010", 1, "ww.usr.cn".

### 1.2.64. AT+CLOUDEN

Function: query / settings to enable transparent transmission of cloud function

Format:

Query parameter description:

```
AT+ CLOUDEN =? {CR}
{CR} {LF}+ CLOUDEN:< "on", "off" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+ CLOUDEN {CR} or AT+ CLOUDEN? {CR}
{CR} {LF}+ CLOUDEN: status {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+ CLOUDEN =status{CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Status: transparent cloud enabled state, including:

"On": open

"Off": close

The default is "off".

Example: AT+CLOUDEN= "on"

### 1.2.65. AT+CLOUDID

Function: query / set up the 20 bit device ID of the device.

Format:

---

Query parameter description:

```
AT+ CLOUDID =? {CR}
{CR} {LF}+ CLOUDID:< "Id" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+ CLOUDID {CR} or AT+ CLOUDID? {CR}
{CR} {LF}+ CLOUDID: "Id" {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+ CLOUDID= "Id" {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

ID: through the cloud 20 bit device ID, the default is empty.

Example: AT+CLOUDID= "12345678901234567890"

## 1.2.66. AT+CLOUDPA

Function: query / set up the 8 bit communication code of the device.

Format:

Query parameter description:

```
AT+ CLOUDPA =? {CR}
{CR} {LF}+ CLOUDPA:< "pass" >{CR} {LF} {CR} {LF}OK {CR} {LF}
```

Query the current parameter value:

```
AT+ CLOUDPA {CR} or AT+ CLOUDPA? {CR}
{CR} {LF}+ CLOUDPA: "pass" {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Set up:

```
AT+ CLOUDPA = "pass" {CR}
{CR} {LF}OK {CR} {LF}
```

Parameters:

Pass: pass through the cloud 8 bit communication password, the default is empty.

Example: AT+CLOUDPA= "12345678"

## 1.2.67. AT+LBS

Function: get location information of base station

Format:

Query the current parameter value:

```
AT+ LBS {CR} or AT+ LBS? {CR}
{CR} {LF}+ LBS: LAC, CID {CR} {LF} {CR} {LF}OK {CR} {LF}
```

Parameters:

LAC: location code

CID: base station code

---

## 2.Update History

Edition	Describe
V1.0.0	2019-02-27 establish