USR-GPRS232 AT Commands

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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
		Management command
1	Н	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
		Configuration parameter command
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.
		Information query command
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
Serial port parameter command		
22	UART	Query / set serial parameters
23	RFCEN	Query / settings enable class RFC2217 functions
		Net command
24	APN	Query / set APN information
25	SOCKA	Query / setup socket A parameter

26 SOCKB Query / setup socket C parameter 27 SOCKC Query / setup socket C parameter 28 SOCKD Query / setup whether to enable socket A 30 SOCKBEN Query / setup whether to enable socket B 31 SOCKCEN 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 SOCKOSL Query / setup enable socket B short connections 35 SOCKCSL Query / setup enable socket D short connections 36 SOCKOSL 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 C connection state 41 SOCKRSTIM Query / setup enable socket ID function 42 SHORTIM Query / setup whether to display socket ID function 43 SOCKIDEN Query / setup short link timeout time 44 CIP Query learny / setup short link timeout time 45 PING PING directive (3.0.0 and later version support) 46 CSQ Query signal strength Register command 47 REGEN Query / settings register package content type 48 REGTP Query / settings register package content type 49 REGID Query / settings register package content type 49 REGID Query / settings register package content type 50 REGDT Query / settings register package content type 51 REGSND Query / settings register packet sending mode Heartbeat command 52 HEARTEN Query / settings neable registration information 53 HEARTDT Query / settings heartbeat packet delivery mode 54 HEARTTP Query / settings heartbeat packet delivery mode 55 HEARTTP Query / settings heartbeat packet delivery mode 56 HTPP Query / settings heartbeat packet interval HTTPD command 56 HTPP Query / setup HTTP operate mode 57 HTPURL Query/setup whether to turn on HEAD filtering function 60 HTPPK Query/setup whether to turn on HEAD filtering function 61 HTPTIM Query setup hTTP timeout time SMS command 62 DSTNUM Target phone number			USR-Cloud function
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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 short link timeout 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)	47	REGEN	
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 short link timeout time 43 SOCKIDEN Query / setup short link timeout time 44 CIP Query local IP (3.0.0 and later version support)			
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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	42	SHORTIM	Query / setup connection failure restart time
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	41	SOCKRSTIM	Query / setup whether to display socket ID function
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	40	SOCKDLK	Query socket D connection state
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	39	SOCKCLK	Query socket C connection state
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	38	SOCKBLK	Query socket B connection state
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	37	SOCKALK	Query socket A connection state
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	36	SOCKDSL	Query / setup enable socket D short connections
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	35	SOCKCSL	Query / setup enable socket C short connections
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	34	SOCKBSL	Query / setup enable socket B short connections
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	33	SOCKASL	Query / setup enable socket A short connections
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	32	SOCKDEN	Query / setup whether to enable socket D
27 SOCKC Query / setup socket C parameter 28 SOCKD Query / setup socket D parameter 29 SOCKAEN Query / setup whether to enable socket A	31	SOCKCEN	Query / setup whether to enable socket C
27 SOCKC Query / setup socket C parameter 28 SOCKD Query / setup socket D parameter	30	SOCKBEN	Query / setup whether to enable socket B
27 SOCKC Query / setup socket C parameter	29	SOCKAEN	Query / setup whether to enable socket A
	28	SOCKD	Query / setup socket D parameter
26 SOCKB Query / setup socket B parameter	27	SOCKC	Query / setup socket C parameter
00 000/0	26	SOCKB	Query / setup socket B parameter

64	CLOUDEN	Set enable USR-Cloud
65	CLOUDID	Set USR-Cloud 20 bit ID
66	CLOUDPA	Set USR-Cloud 8 bit password
Other function		
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:

1.2.7.AT+NATEN

Example: AT+CALEN= "off"

"On": enabling
"Off": prohibition
The default is "off".

```
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}

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= "usr.cn"

1.2.10. AT+CACHEN

```
Function: query / set whether to open cached data.
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:

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 = "www.usr.cn"

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.
    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\} > < < pass > > \} 
 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.
 Query parameter description:
    AT+SOCKB=? {CR}
    \{CR\}\{LF\}+SOCKB:protocol>,  \{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}
    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}
```

Parameters:

Protocol: communication protocol, default TCP, including:

"TCP": TCP protocol
"UDP": UDP protocol

 $\{CR\}\{LF\}OK\{CR\}\{LF\}$

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}
   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}
   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
```

Example: AT+SOCKAEN= "on"

"Off": prohibition
The default is "on".

1.2.30. AT+SOCKBEN

```
Function: query / set whether to enable socket B.
 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}
 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".
```

1.2.32. AT+SOCKDEN

Example: AT+SOCKCEN= "on"

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 + SOCKRSTIM = ? \{CR\}
```

 $\{CR\} \{LF\} + SOCKRSTIM: < time> \{CR\} \{LF\} \{CR\} \{LF\} OK \{CR\} \{LF\} \}$

Query the current parameter value:

```
AT+SOCKRSTIM \ \{CR\} \ or \ AT+SOCKIDEN? \ \{CR\} \ \{LF\}+SOCKRSTIM:time \ \{CR\} \ \{LF\} \ \{LF\}OK \ \{LF\} \ \{LF\}
```

Set up:

```
AT+ SOCKRSTIM =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+SOCKRSTIM=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+SOCKRSTIM=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\} \ \{LF\}+ CIP: \ \{CR\} \ \{LF\} \ \{CR\} \ \{LF\} \ \{CR\} \ \{LF\} \ \{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: <rssi>, <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}

 $\{CR\} \{LF\} + REGID: \langle id \rangle \{CR\} \{LF\} \{CR\} \{LF\} OK \{CR\} \{LF\} \}$

Query the current parameter value:

$$\begin{split} & AT + REGID\{CR\} \text{ or } AT + REGID? \{CR\} \\ & \{CR\}\{LF\} + REGID : id\{CR\}\{LF\}\{CR\}\{LF\}OK\{CR\}\{LF\} \end{split}$$

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.usr.cn.

Example: AT+REGDT= "7777772E7573722E636E"

1.2.51. AT+REGSND

```
Function: query / set the sending mode of the registration package.
 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\}\}
    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\}
       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.usr.cn.
    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\}
```

Parameters:

Set up:

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

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

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

1.2.58. AT+HTPSV

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

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

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

```
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}
```

$$\{CR\} \{LF\} + HTPTIM :< "time" > \{CR\} \{LF\} \{CR\} \{LF\} OK \{CR\} OK \{CR\} \{LF\} OK \{CR\} OK \{CR\} \{LF\} OK \{CR\} OK \{C$$

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\}\left\{LF\right\} + DSTNUM : < "number" > \{CR\}\left\{LF\right\}\left\{CR\right\}\left\{LF\right\}OK\left\{CR\right\}\left\{LF\right\}
```

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+SMSEND

```
Function: send short message.
    Format:
    Query parameter description:
       AT+SMSEND=? {CR}
        {CR} {LF}+SMSEND:< "number" > <1,2,3>, < "data" > {CR} {LF} {CR} {LF} OK {CR} {LF}
    Set up:
       AT+SMSEND= "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+SMSEND= "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\} \ \{LF\}+ CLOUDPA: \ "pass" \ \{CR\} \ \{LF\} \ \{LF\}OK \ \{CR\} \ \{LF\} \ CR\} \ \{LF\}OK \ \{CR\} \ \{LF\}OK \ \{CR\} \ \{LF\} \ CR\} \ \{LF\}OK \ \{CR\} \ \{LF\}OK \ \{CR\} \ \{LF\} \ CR\} \ \{LF\}OK \ \{CR\} \ \{LF\}OK \ \{CR\} \ \{LF\} \ CR\} \ \{LF\}OK \ \{CR\} \ \{LF\}OK \ \{CR\}OK \ \{CR\}OK
```

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

6.Contact Us

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8. Update History

Edition	Describe
V1.0.0	2019-02-27 establish