

# USR-GM3P AT Command Set

(Firmware V2.2.1)

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# Content

<b>USR-GM3P AT Command Set</b> .....	<b>1</b>
<b>1. What is the AT command</b> .....	<b>4</b>
<b>2. How to use the AT command</b> .....	<b>4</b>
<b>2.1. How to enter AT command mode</b> .....	<b>4</b>
<b>3. AT command set</b> .....	<b>4</b>
<b>4. AT command details</b> .....	<b>6</b>
<b>4.1. AT+H</b> .....	<b>6</b>
<b>4.2. AT+Z</b> .....	<b>6</b>
<b>4.3. AT+E</b> .....	<b>7</b>
<b>4.4. AT+ENTM</b> .....	<b>7</b>
<b>4.5. AT+WKMOD</b> .....	<b>7</b>
<b>4.6. AT+CALEN</b> .....	<b>7</b>
<b>4.7. AT+NATEN</b> .....	<b>8</b>
<b>4.8. AT+UATEN</b> .....	<b>8</b>
<b>4.9. AT+CMDPW</b> .....	<b>8</b>
<b>4.10. AT+CACHEN</b> .....	<b>9</b>
<b>4.11. AT+STMSG</b> .....	<b>9</b>
<b>4.12. AT+RSTIM</b> .....	<b>9</b>
<b>4.13. AT+SLEEP</b> .....	<b>9</b>
<b>4.14. AT+SLEEPTIM</b> .....	<b>10</b>
<b>4.15. AT+S</b> .....	<b>10</b>
<b>4.16. AT+RELD</b> .....	<b>10</b>
<b>4.17. AT+CLEAR</b> .....	<b>10</b>
<b>4.18. AT+CFGTF</b> .....	<b>11</b>
<b>4.19. AT+VER</b> .....	<b>11</b>
<b>4.20. AT+SN</b> .....	<b>11</b>
<b>4.21. AT+ICCID</b> .....	<b>11</b>
<b>4.22. AT+IMEI</b> .....	<b>11</b>
<b>4.23. AT+CNUM</b> .....	<b>12</b>
<b>4.24. AT+UART</b> .....	<b>12</b>
<b>4.25. AT+RFCEN</b> .....	<b>12</b>
<b>4.26. AT+APN</b> .....	<b>13</b>
<b>4.27. AT+SOCKn</b> .....	<b>13</b>
<b>4.28. AT+SOCKnEN</b> .....	<b>13</b>
<b>4.29. AT+SOCKnSL</b> .....	<b>14</b>
<b>4.30. AT+SOCKnLK</b> .....	<b>14</b>
<b>4.31. AT+SOCKIDEN</b> .....	<b>14</b>
<b>4.32. AT+REGEN</b> .....	<b>14</b>
<b>4.33. AT+REGTP</b> .....	<b>15</b>
<b>4.34. AT+REGID</b> .....	<b>15</b>
<b>4.35. AT+REGDT</b> .....	<b>15</b>

<b>4.36. AT+REGSND.....</b>	<b>16</b>
<b>4.37. AT+HEARTEN.....</b>	<b>16</b>
<b>4.38. AT+HEARTDT.....</b>	<b>16</b>
<b>4.39. AT+HEARTTP.....</b>	<b>17</b>
<b>4.40. AT+HEARTTM.....</b>	<b>17</b>
<b>4.41. AT+HTPTP.....</b>	<b>17</b>
<b>4.42. AT+HTPURL.....</b>	<b>17</b>
<b>4.43. AT+HTPSV.....</b>	<b>18</b>
<b>4.44. AT+HTPHD.....</b>	<b>18</b>
<b>4.45. AT+HTPPK.....</b>	<b>18</b>
<b>4.46. AT+DSTNUM.....</b>	<b>19</b>
<b>4.47. AT+SMSSEND.....</b>	<b>19</b>
<b>4.48. AT+CLOUDEN.....</b>	<b>19</b>
<b>4.49. AT+CLOUDID.....</b>	<b>20</b>
<b>4.50. AT+CLOUDPA.....</b>	<b>20</b>
<b>4.51. AT+LBS.....</b>	<b>20</b>
<b>4.52. AT+GPS.....</b>	<b>20</b>
<b>4.53. AT+GPSDT.....</b>	<b>21</b>
<b>4.54. AT+GPSTP.....</b>	<b>21</b>
<b>4.55. AT+GPSEN.....</b>	<b>21</b>
<b>4.56. AT+GPSTM.....</b>	<b>21</b>
<b>5. Contact.....</b>	<b>23</b>
<b>6. Disclaimer.....</b>	<b>23</b>
<b>7. Update History.....</b>	<b>23</b>

## 1. What is the AT command.

AT command is used for controlling module. You can use AT command to configure and query the settings.

## 2. How to use the AT command

For USR device is in transparent mode normally, you must enter AT command mode at first. Then you can send AT command to configure or query the settings. After you configure the USR device, you should restart the USR device to make the settings take effect. Every time module restart will work in work mode rather AT command mode.

Every AT command must add character carriage return <CR> and line feed <LF>. In Hex, <CR> is 0x0D <LF> is 0x0A.

### 2.1. How to enter AT command mode

Please read this FAQ about entering AT command mode.

<http://www.usriot.com/enter-serial-command-mode/>

## 3. AT command set

Command	Function
<b>Basic Command</b>	
<b>H</b>	Query help message
<b>Z</b>	Reset the module
<b>E</b>	Query/Set AT command echo function enable/disable
<b>ENTM</b>	Exit serial AT command mode and enter work mode
<b>WKMOD</b>	Query/Set work mode of module
<b>CALEN</b>	Query/Set Phone function enable/disable
<b>NATEN</b>	Query/Set network AT command enable/disable
<b>UATEN</b>	Query/Set serial port AT command in transparent transmission mode enable/disable
<b>CMDPW</b>	Query/Set command password
<b>CACHEN</b>	Query/Set Cache Data enable/disable
<b>STMSG</b>	Query/Set Welcome message of module
<b>RSTIM</b>	Query/Set timeout reset time
<b>SLEEP</b>	Query/Set Sleep mode
<b>SLEEPTIM</b>	Query/Set time to enter Sleep mode
<b>S</b>	Saving current settings

<b>RELD</b>	Restore default settings
<b>CLEAR</b>	Restore factory settings
<b>CFGTF</b>	Saving current settings as default settings
<b>VER</b>	Query firmware version
<b>SN</b>	Query SN code
<b>ICCID</b>	Query ICCID code
<b>IMEI</b>	Query IMEI code
<b>CNUM</b>	Query phone number
<b>Serial port and socket command</b>	
<b>UART</b>	Query/Set serial port parameters
<b>RFCEN</b>	Query/Set baud rate synchronization function enable/disable
<b>APN</b>	Query/Set APN setting
<b>SOCKn</b>	Query/Set socket n parameter
<b>SOCKnEN</b>	Query/Set socket n enable/disable
<b>SOCKnSL</b>	Query/Set socket n connection type in TCP mode
<b>SOCKnLK</b>	Query socket n connection status
<b>SOCKIDEN</b>	Query/Set displaying socket ID function enable/disable
<b>Identity packet command</b>	
<b>REGEN</b>	Query/Set identity packet enable/disable
<b>REGTP</b>	Query/Set identity packet type
<b>REGID</b>	Query/Set identity packet ID
<b>REGDT</b>	Query/Set user editable identity packet data
<b>REGSND</b>	Query/Sets sending method of identity packet
<b>Heartbeat packet command</b>	
<b>HEARTEN</b>	Query/Set heartbeat packet enable/disable
<b>HEARTDT</b>	Query/Set heartbeat packet data
<b>HEARTTP</b>	Query/Set type of heartbeat packet
<b>HEARTTM</b>	Query/Set heartbeat packet interval
<b>HTTPD Client mode command</b>	
<b>HTPTP</b>	Query/Set HTTP requesting method in HTTPD Client mode
<b>HTPURL</b>	Query/Set HTTP URL in HTTPD Client mode
<b>HTPSV</b>	Query/Set HTTP server address and port in HTTPD Client mode
<b>HTPHD</b>	Query/Set HTTP header in HTTPD Client mode
<b>HTPPK</b>	Query/Set filtering HTTP header of response data in HTTPD Client mode enable/disable
<b>Message command</b>	
<b>DSTNUM</b>	Query/Set Target phone number
<b>SMSSEND</b>	Sending message
<b>USR Cloud command</b>	
<b>CLOUDEN</b>	Query/Set USR Cloud enable/disable

<b>CLOUDID</b>	Query/Set Cloud ID of module
<b>CLOUDPA</b>	Query/Set Cloud password of module
<b>Position function command</b>	
<b>LBS</b>	Query Location Based Service information
<b>GPS</b>	Query/Set GPS function enable/disable
<b>GPSDT</b>	Query GPS information
<b>GPSTP</b>	Query/Set sending method of GPS information
<b>GPSEN</b>	Query/Set GPS heartbeat packet enable/disable
<b>GPSTM</b>	Query/Set GPS information receiving time interval

**Note:** For commands SOCKn, SOCKnEN, SOCKnSL, SOCKnLK, because GM3P support four sockets, so n=A,B,C,D.

## 4. AT command details

Special Characters		
Character	Note	Hex
<CR>	Carriage Return	0x0D
<LF>	Line Feed	0x0A

### 4.1. AT+H

Format	
Query	AT+H<CR>
Return	<CR><LF><HELP MESSAGE><CR><LF><CR><LF>OK<CR><LF>

### 4.2. AT+Z

Format	
Set	AT+Z<CR>
Return	<CR><LF>OK<CR><LF>

### 4.3. AT+E

Parameter	Description	Default Value	Range
<Status>	Status of AT command Echo function	"on"	"on"/"off"
<b>Format</b>			
Query	AT+E<CR> or AT+E?<CR>		
Return	<CR><LF>+E:<Status><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+E=<Status><CR>		
Return	<CR><LF>OK<CR><LF>		

### 4.4. AT+ENTM

<b>Format</b>	
Set	AT+ENTM<CR>
Return	<CR><LF>OK<CR><LF>

### 4.5. AT+WKMOD

Parameter	Description	Default Value	Range
<Mode>	Work mode of module	"NET"	"CMD": AT command mode
			"SMS": SMS transparent transmission mode
			"NET": Network transparent transmission mode
			"HTTPD": HTTPD Client mode
			"UDC": UDC mode
<b>Format</b>			
Query	AT+WKMOD<CR> or AT+WKMOD?<CR>		
Return	<CR><LF>+WKMOD:<Mode><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+WKMOD=<Mode><CR>		
Return	<CR><LF>OK<CR><LF>		

### 4.6. AT+CALEN

Parameter	Description	Default Value	Range
<Status>	Status of Phone function	"off"	"on"/"off"

Format	
Query	AT+CALEN<CR> or AT+CALEN?<CR>
Return	<CR><LF>+CALEN:<Status><CR><LF><CR><LF>OK<CR><LF>
Set	AT+CALEN=<Status><CR>
Return	<CR><LF>OK<CR><LF>

## 4.7. AT+NATEN

Parameter	Description	Default Value	Range
<Status>	Status of network AT command	“on”	“on”/“off”
Format			
Query	AT+NATEN<CR> or AT+NATEN?<CR>		
Return	<CR><LF>+NATEN:<Status><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+NATEN=<Status><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.8. AT+UATEN

Parameter	Description	Default Value	Range
<Status>	Status of serial port AT command in transparent transmission mode	“off”	“on”/“off”
Format			
Query	AT+UATEN<CR> or AT+UATEN?<CR>		
Return	<CR><LF>+UATEN:<Status><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+UATEN=<Status><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.9. AT+CMDPW

Parameter	Default Value	Range
<Password>	“usr.cn”	Less than 6 bytes
Format		
Query	AT+CMDPW<CR> or AT+CMDPW?<CR>	
Return	<CR><LF>+CMDPW:<Password><CR><LF><CR><LF>OK<CR><LF>	
Set	AT+CMDPW=<Password><CR>	
Return	<CR><LF>OK<CR><LF>	



## 4.10. AT+CACHEN

Parameter	Description	Default Value	Range
<Status>	Status of Cache Data	"on"	"on"/"off"
Format			
Query	AT+CACHEN<CR> or AT+CACHEN?<CR>		
Return	<CR><LF>+CACHEN:<Status><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+CACHEN=<Status><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.11. AT+STMSG

Parameter	Description	Default Value
<Message>	Welcome message of module	"USR-GM3P V2"
Format		
Query	AT+STMSG<CR> or AT+STMSG?<CR>	
Return	<CR><LF>+STMSG:<Message><CR><LF><CR><LF>OK<CR><LF>	
Set	AT+STMSG=<Message><CR>	
Return	<CR><LF>OK<CR><LF>	

## 4.12. AT+RSTIM

Parameter	Description	Default Value	Range
<Time>	Timeout reset function time	1800s	0s: Closing function
Format			
Query	AT+RSTIM<CR> or AT+RSTIM?<CR>		
Return	<CR><LF>+RSTIM:<Time><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+RSTIM=<Time><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.13. AT+SLEEP

Parameter	Description	Default Value	Range
<Status>	Status of Sleep mode	"off"	"on"/"off"

Format	
Query	AT+SLEEP<CR> or AT+SLEEP?<CR>
Return	<CR><LF>+SleepMode:<Status><CR><LF><CR><LF>OK<CR><LF>
Set	AT+SLEEP=<Status><CR>
Return	<CR><LF>OK<CR><LF>

#### 4.14. AT+SLEEPTIM

Parameter	Description	Default Value	Range
<Time>	Time to enter Sleep mode	0s	0s: Closing function
Format			
Query	AT+SLEEPTIM<CR> or AT+SLEEPTIM?<CR>		
Return	<CR><LF>+SLEEPTIM:<Time><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+SLEEPTIM=<Time><CR>		
Return	<CR><LF>OK<CR><LF>		

#### 4.15. AT+S

Format	
Set	AT+S<CR>
Return	<CR><LF>OK<CR><LF>

#### 4.16. AT+RELD

Format	
Set	AT+RELD<CR>
Return	<CR><LF>OK<CR><LF>

#### 4.17. AT+CLEAR

Format	
Set	AT+CLEAR<CR>
Return	<CR><LF>OK<CR><LF>

## 4.18. AT+CFGTF

Format	
Set	AT+CFGTF<CR>
Return	<CR><LF>OK<CR><LF>

## 4.19. AT+VER

Format	
Query	AT+VER<CR> or AT+VER?<CR>
Return	<CR><LF>+VER:<Version><CR><LF><CR><LF>OK<CR><LF>

## 4.20. AT+SN

Format	
Query	AT+SN<CR> or AT+SN?<CR>
Return	<CR><LF>+SN:<SN code><CR><LF><CR><LF>OK<CR><LF>

## 4.21. AT+ICCID

Format	
Query	AT+ICCID<CR> or AT+ICCID?<CR>
Return	<CR><LF>+ICCID:<ICCID code><CR><LF><CR><LF>OK<CR><LF>

## 4.22. AT+IMEI

Format	
Query	AT+IMEI<CR> or AT+IMEI?<CR>
Return	<CR><LF>+IMEI:<IMEI code><CR><LF><CR><LF>OK<CR><LF>

## 4.23. AT+CNUM

Format	
Query	AT+CNUM<CR> or AT+CNUM?<CR>
Return	<CR><LF>+CNUM:<Phone Number><CR><LF><CR><LF>OK<CR><LF>

## 4.24. AT+UART

Parameter	Description	Default Value	Range
<Baud rate>	Baud rate	115200	2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200, 128000, 230400, 460800, 921600
<Parity>	Parity	NONE	NONE, EVEN, ODD
<Data bits>	Data bits	8	7, 8
<Stop bits>	Stop bits	1	1, 2
<Flow Control>	Flow Control	"NONE"	"NONE": No flow control
			"CRTS": Hardware flow control(RTS/CTS)
			"RS485": Using RS485 function
Format			
Query	AT+UART<CR> or AT+UART?<CR>		
Return	<CR><LF>+UART:<Baud rate>,<Parity>,<Data bits>,<Stop bits><Flow Control><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+UART=<Baud rate>,<Parity>,<Data bits>,<Stop bits><Flow Control><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.25. AT+RFCEN

Parameter	Description	Default Value	Range
<Status>	Status of baud rate synchronization function	"off"	"on"/"off"
Format			
Query	AT+RFCEN<CR> or AT+RFCEN?<CR>		
Return	<CR><LF>+RFCEN:<Status><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+RFCEN=<Status><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.26. AT+APN

Parameter	Description	Default Value
<Code>	APN code	"CMNET"
<Name>	User name	No Default Value
<Password>	User password	No Default Value
Format		
Query	AT+APN<CR> or AT+APN?<CR>	
Return	<CR><LF>+APN:<Code><Name><Password><CR><LF><CR><LF>OK<CR><LF>	
Set	AT+APN=<Code><Name><Password><CR>	
Return	<CR><LF>OK<CR><LF>	

## 4.27. AT+SOCKn

Parameter	Description	Default Value	Range
<Protocol>	Network protocol	TCP	TCP/UDP
<Address>	Server address	test.usr.cn	IP address: 0.0.0.0-255.255.255.255
			Domain name
<Port>	Server port	2317	1-65535
Format			
Query	AT+SOCKn<CR> or AT+SOCKn?<CR>		
Return	<CR><LF>+SOCKn:<Protocol>,<Address>,<Port><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+SOCKn=<Protocol>,<Address>,<Port><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.28. AT+SOCKnEN

Parameter	Description	Range
<Status>	Status of socket n	"on"/"off"
Format		
Query	AT+SOCKnEN<CR> or AT+SOCKnEN?<CR>	
Return	<CR><LF>+SOCKnEN:<Status><CR><LF><CR><LF>OK<CR><LF>	
Set	AT+SOCKnEN=<Status><CR>	
Return	<CR><LF>OK<CR><LF>	

## 4.29. AT+SOCKnSL

Parameter	Description	Default Value	Range
<Type>	Connection type of socket n in TCP mode	Long	Short/Long
<b>Format</b>			
Query	AT+SOCKnSL<CR> or AT+SOCKnSL?<CR>		
Return	<CR><LF>+SOCKnSL:<Type><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+SOCKnSL=<Type><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.30. AT+SOCKnLK

Parameter	Description	Range
<Status>	Connection status of socket n	connected/disconnected
<b>Format</b>		
Query	AT+SOCKnLK<CR> or AT+SOCKnLK?<CR>	
Return	<CR><LF>+SOCKnLK:<Status><CR><LF><CR><LF>OK<CR><LF>	

## 4.31. AT+SOCKIDEN

Parameter	Description	Default Value	Range
<Status>	Status of displaying socket ID function	"off"	"on"/"off"
<b>Format</b>			
Query	AT+SOCKIDEN<CR> or AT+SOCKIDEN?<CR>		
Return	<CR><LF>+SOCKIDEN:<Status><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+SOCKIDEN=<Status><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.32. AT+REGEN

Parameter	Description	Default Value	Range
<Status>	Status of identity packet function	"off"	"on"/"off"
<b>Format</b>			
Query	AT+REGEN<CR> or AT+REGEN?<CR>		
Return	<CR><LF>+REGEN:<Status><CR><LF><CR><LF>OK<CR><LF>		

Set	AT+REGEN=<Status><CR>
Return	<CR><LF>OK<CR><LF>

### 4.33. AT+REGTP

Parameter	Description	Default Value	Range
<Type>	Type of identity packet	"ICCID"	"ICCID": ICCID code
			"IMEI": IMEI code
			"REGID": Registration ID
			"REGDT": User editable data
Format			
Query	AT+REGTP<CR> or AT+REGTP?<CR>		
Return	<CR><LF>+REGTP:<Type><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+REGTP=<Type><CR>		
Return	<CR><LF>OK<CR><LF>		

### 4.34. AT+REGID

Parameter	Description	Default Value
<ID>	Registration ID	100
Format		
Query	AT+REGID<CR> or AT+REGID?<CR>	
Return	<CR><LF>+REGID:<ID><CR><LF><CR><LF>OK<CR><LF>	
Set	AT+REGID=<ID><CR>	
Return	<CR><LF>OK<CR><LF>	

### 4.35. AT+REGDT

Parameter	Description	Default Value	Range
<Data>	User editable identity packet data	777772E75737 22E636E	Less than 80 bytes
Format			
Query	AT+REGDT<CR> or AT+REGDT?<CR>		
Return	<CR><LF>+REGDT:<Data><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+REGDT=<Data><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.36. AT+REGSND

Parameter	Description	Default Value	Range
<Type>	Identity packet sending method	"link"	"link": Sending Identity packet before first package after establishing connection
			"data": Sending Identity packet in every package.
			"link&data": Supporting above two methods
Format			
Query	AT+REGSND<CR> or AT+REGSND?<CR>		
Return	<CR><LF>+REGSND:<Type><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+REGSND=<Type><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.37. AT+HEARTEN

Parameter	Description	Default Value	Range
<Status>	Status of heartbeat packet function	"on"	"on"/"off"
Format			
Query	AT+HEARTEN<CR> or AT+HEARTEN?<CR>		
Return	<CR><LF>+HEARTEN:<Status><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+HEARTEN=<Status><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.38. AT+HEARTDT

Parameter	Description	Default Value	Range
<Data>	Heartbeat packet data	7777772E75737 22E636E	Less than 80 bytes
Format			
Query	AT+HEARTDT<CR> or AT+HEARTDT?<CR>		
Return	<CR><LF>+HEARTDT:<Data><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+HEARTDT=<Data><CR>		
Return	<CR><LF>OK<CR><LF>		



## 4.39. AT+HEARTTP

Parameter	Description	Default Value	Range
<Type>	Heartbeat packet sending method	"NET"	"COM": Sending to serial side
			"NET": Sending to network side
Format			
Query	AT+HEARTTP<CR> or AT+HEARTTP?<CR>		
Return	<CR><LF>+HEARTTP:<Type><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+HEARTTP=<Type><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.40. AT+HEARTTM

Parameter	Description	Default Value	Range
<Time>	Heartbeat packet sending interval	30s	1-65535s
Format			
Query	AT+HEARTTM<CR> or AT+HEARTTM?<CR>		
Return	<CR><LF>+HEARTTM:<Time><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+HEARTTM=<Time><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.41. AT+HTPTP

Parameter	Description	Default Value	Range
<Type>	HTTP requesting method	"GET"	"GET"/ "POST"
Format			
Query	AT+HTPTP<CR> or AT+HTPTP?<CR>		
Return	<CR><LF>+HTPTP:<Type><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+HTPTP=<Type><CR>		
Return	<CR><LF>OK<CR><LF>		

## 4.42. AT+HTPURL

Parameter	Description
<URL>	HTTP URL in HTTPD Client mode

Format	
Query	AT+HTPURL<CR> or AT+HTPURL?<CR>
Return	<CR><LF>+HTPURL:<URL><CR><LF><CR><LF>OK<CR><LF>
Set	AT+HTPURL=<URL><CR>
Return	<CR><LF>OK<CR><LF>

#### 4.43. AT+HTPSV

Parameter	Description	Default Value	Range
<Address>	Server address	"www.usr.cn"	IP address: 0.0.0.0-255.255.255.255
			Domain Name
<Port>	Server port	80	1-65535
Format			
Query	AT+HTPSV<CR> or AT+HTPSV?<CR>		
Return	<CR><LF>+HTPSV:<Address>,<Port><CR><LF><CR><LF>OK<CR><LF>		
Set	AT+HTPSV=<Address>,<Port><CR>		
Return	<CR><LF>OK<CR><LF>		

#### 4.44. AT+HTPHD

Parameter	Description
<Head>	HTTP header data in HTTPD Client mode
Format	
Query	AT+HTPHD<CR> or AT+HTPHD?<CR>
Return	<CR><LF>+HTPHD:<Head><CR><LF><CR><LF>OK<CR><LF>
Set	AT+HTPHD=<Head><CR>
Return	<CR><LF>OK<CR><LF>

#### 4.45. AT+HTPPK

Parameter	Description	Default Value	Range
<Status>	Status of filtering HTTP header of response data function	"on"	"on"/"off"
Format			
Query	AT+HTPPK<CR> or AT+HTPPK?<CR>		
Return	<CR><LF>+HTPPK:<Status><CR><LF><CR><LF>OK<CR><LF>		

<b>Set</b>	<b>AT+HTPPK=&lt;Status&gt;&lt;CR&gt;</b>
<b>Return:</b>	<b>&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>

## 4.46. AT+DSTNUM

Parameter	Description
<Number>	Target phone number in SMS transparent transmission mode
<b>Format</b>	
<b>Query</b>	<b>AT+DSTNUM&lt;CR&gt; or AT+DSTNUM?&lt;CR&gt;</b>
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;+DSTNUM:&lt;Number&gt;&lt;CR&gt;&lt;LF&gt;&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>
<b>Set</b>	<b>AT+DSTNUM=&lt;Number&gt;&lt;CR&gt;</b>
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>

## 4.47. AT+SMSSEND

Parameter	Description	Range
<Number>	Target phone number	
<Type>	Coding scheme	1: ASCII coding, have compression 2: 8 bits coding, no compression 3: UCS2 coding, EN/CN method
<Data>	Message data	
<b>Format</b>		
<b>Set</b>	<b>AT+SMSSEND=&lt;Number&gt;,&lt;Type&gt;,&lt;Data&gt;&lt;CR&gt;</b>	
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>	

## 4.48. AT+CLOUDEN

Parameter	Description	Default Value	Range
<Status>	Status of USR Cloud function	"off"	"on"/"off"
<b>Format</b>			
<b>Query</b>	<b>AT+CLOUDEN&lt;CR&gt; or AT+CLOUDEN?&lt;CR&gt;</b>		
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;+CLOUDEN:&lt;Status&gt;&lt;CR&gt;&lt;LF&gt;&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>		
<b>Set</b>	<b>AT+CLOUDEN=&lt;Status&gt;&lt;CR&gt;</b>		
<b>Return:</b>	<b>&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>		

## 4.49. AT+CLOUDID

Parameter	Description	Range
<ID>	USR Cloud equipment ID	20 bytes
Format		
Query	AT+CLOUDID<CR> or AT+CLOUDID?<CR>	
Return	<CR><LF>+CLOUDID:<ID><CR><LF><CR><LF>OK<CR><LF>	
Set	AT+CLOUDID=<ID><CR>	
Return:	<CR><LF>OK<CR><LF>	

## 4.50. AT+CLOUDPA

Parameter	Description	Range
<Password>	USR Cloud password	8 bytes
Format		
Query	AT+CLOUDPA<CR> or AT+CLOUDPA?<CR>	
Return	<CR><LF>+CLOUDPA:<Password><CR><LF><CR><LF>OK<CR><LF>	
Set	AT+CLOUDPA=<Password><CR>	
Return:	<CR><LF>OK<CR><LF>	

## 4.51. AT+LBS

Parameter	Description
<LAC>	Location code
<CID>	Base station code
Format	
Query	AT+LBS<CR> or AT+LBS?<CR>
Return	<CR><LF>+LBS:<LAC>,<CID><CR><LF><CR><LF>OK<CR><LF>

## 4.52. AT+GPS

Parameter	Description	Default Value	Range
<Status>	Status of GPS function	0	0(disable)/1(enable)
Format			
Query	AT+GPS?<CR>		
Return	<CR><LF>+GPS:<Status><CR><LF><CR><LF>OK<CR><LF>		

<b>Set</b>	<b>AT+GPS=&lt;Status&gt;&lt;CR&gt;</b>
<b>Return:</b>	<b>&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>

### 4.53. AT+GPSDT

Format	
<b>Query</b>	<b>AT+GPSDT&lt;CR&gt;</b>
<b>Return</b>	<b>{CR}{LF}+ GPSDT:\$GPRMC,,,,,,,,,,,,,,{CR}{LF}{CR}{LF}OK{CR}{LF}</b>

### 4.54. AT+GPSTP

Parameter	Description	Default Value	Range
<Type>	GPS information sending method	"COM"	"COM": Sending to serial side
			"NET": Sending to network side
Format			
<b>Query</b>	<b>AT+GPSTP?&lt;CR&gt;</b>		
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;+GPSTP:&lt;Type&gt;&lt;CR&gt;&lt;LF&gt;&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>		
<b>Set</b>	<b>AT+GPSTP=&lt;Type&gt;&lt;CR&gt;</b>		
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>		

### 4.55. AT+GPSEN

Parameter	Description	Default Value	Range
<Status>	Status of GPS heartbeat packet	"off"	"on"/"off"
Format			
<b>Query</b>	<b>AT+GPSEN?&lt;CR&gt;</b>		
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;+GPSEN:&lt;Status&gt;&lt;CR&gt;&lt;LF&gt;&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>		
<b>Set</b>	<b>AT+GPSEN=&lt;Status&gt;&lt;CR&gt;</b>		
<b>Return:</b>	<b>&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>		

### 4.56. AT+GPSTM

Parameter	Description	Default Value	Range
<Time>	Sending interval of GPS information	1s	1-65535s

Format	
<b>Query</b>	<b>AT+GPSTM?&lt;CR&gt;</b>
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;+GPSTM:&lt;Time&gt;&lt;CR&gt;&lt;LF&gt;&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>
<b>Set</b>	<b>AT+GPSTM=&lt;Time&gt;&lt;CR&gt;</b>
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;OK&lt;CR&gt;&lt;LF&gt;</b>

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## 6. Disclaimer

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## 7. Update History

2017-9-04 V1.0.0 created. Based on firmware version V2.2.1.

2017-10-24 V1.0.1 updated. Based on firmware version V2.2.1. Modified some words to standards and corrected spelling/grammatical mistakes. Optimized whole manual arrangement.