

# USR-W610 AT Command Set

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# 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 serial AT command mode

Please read this FAQ about entering serial AT command mode.

<https://www.usriot.com/support/faq/enter-serial-command-mode.html>

## 3. AT command set

Command	Function
<b>E</b>	Set AT command echo function enable/disable
<b>ENTM</b>	Exit serial AT command mode and enter work mode
<b>NETP</b>	Query/Set Network protocol parameters of socket A
<b>UART</b>	Query/Set serial port parameters
<b>UARTF</b>	Query/Set serial package function enable/disable
<b>UARTFT</b>	Query/Set serial package triggering time
<b>UARTFL</b>	Query/Set serial package triggering length
<b>TMODE</b>	Query/Set W610 work mode
<b>WMODE</b>	Query/Set WIFI mode(AP/STA)
<b>WSKEY</b>	Query/Set encryption parameters in STA mode
<b>WSSID</b>	Query/Set SSID of connected AP in STA mode
<b>WSLK</b>	Query the connection status in STA mode
<b>WEBU</b>	Query/Set Web Server username and password
<b>WAP</b>	Query/Set AP mode parameters
<b>WAKEY</b>	Query/Set encryption parameters in AP mode
<b>MSLP</b>	Query/Set Sleep mode enable/disable
<b>WSCAN</b>	Search surrounding AP
<b>TCPLK</b>	Query socket A TCP connection connect/disconnected
<b>TCPDIS</b>	Query/Set establish TCP connection enable/disable(Only take effect in TCP Client mode)
<b>WANN</b>	Query/Set network parameters in STA mode(WAN interface parameters)
<b>LANN</b>	Query/Set network parameters in AP mode(LAN interface parameters)
<b>TCPTO</b>	Query/Set timeout re-connection function time of socket A

<b>MAXSK</b>	Query/Set maximum TCP Clients in TCP Server work mode
<b>TCPB</b>	Query/Set Socket B enable/disable
<b>TCPPTB</b>	Query/Set Socket B port number
<b>TCPADDB</b>	Query/Set Socket B server address
<b>TCPTOB</b>	Query/Set timeout re-connection function time of socket B
<b>TCPLKB</b>	Query socket B TCP connection connect/disconnected
<b>EPHY</b>	Set Ethernet interface enable/disable(Other two related commands AT+FEPHY AT+FVEW please see details in 4.29. AT+EPHY)
<b>RELD</b>	Reset W610 to user default setting
<b>FUDLX</b>	Set RS485 enable/disable
<b>MMID</b>	Query/Set module ID
<b>IDFIR</b>	Set sending two bytes ID and two bytes ID inverse code after firstly establishing connection enable/disable
<b>IDEVE</b>	Set sending two bytes ID and two bytes ID inverse code before every data enable/disable
<b>AABR</b>	Set baud rate synchronization function enable/disable
<b>DHCPDEN</b>	Set DHCP Server function of LAN interface enable/disable
<b>HIDESSID</b>	Set hiding SSID of W610 in AP mode enable/disable
<b>DOMAIN</b>	Query/Set Web Server domain name
<b>Z</b>	Restart the W610
<b>MID</b>	Query W610 MID
<b>VER</b>	Query firmware version
<b>H</b>	Query help information of commands
<b>WSQY</b>	Query/Set RSSI threshold(percentage) to switch among three AP in STA mode
<b>HTPMODE</b>	Query/Set HTTP Client mode parameters configuration way(new/old)
<b>HTTPURL</b>	Query/Set HTTP Server address and port in HTTP Client mode old configuration way
<b>HTTPTP</b>	Query/Set HTTP requesting method in HTTP Client mode old configuration way
<b>HTTPPH</b>	Query/Set HTTP header path in HTTP Client mode old configuration way
<b>HTTPCN</b>	Query/Set HTTP header connection in HTTP Client mode old configuration way
<b>HTTPUA</b>	Query/Set HTTP header User-Agent in HTTP Client mode old configuration way
<b>HTPSV</b>	Query/Set HTTP Server address and port in HTTP Client mode new configuration way
<b>HTPTP</b>	Query/Set HTTP requesting method in HTTP Client mode new configuration way
<b>HTPURL</b>	Query/Set HTTP URL in HTTP Client mode new configuration way
<b>HTPHEAD</b>	Query/Set HTTP header in HTTP Client mode new configuration way
<b>REGEN</b>	Query/Set identity packet type
<b>REGTCP</b>	Query/Set identity packet sending method
<b>WTPWR</b>	Query/Set W610 transmitting power
<b>REGCLOUD</b>	Query/Set USR Cloud ID and password
<b>REGUSR</b>	Query/Set user editable identity packet data
<b>TCPDPEN</b>	Query/Set socket distribution function enable/disable

<b>HEARTEN</b>	Query/Set heartbeat packet function enable/disable
<b>HEARTTP</b>	Query/Set sending method of heartbeat packet
<b>HEARTDT</b>	Query/Set heartbeat packet data
<b>HEARTTM</b>	Query/Set sending interval of heartbeat packet
<b>REBOOTEN</b>	Query/Set timing restart function enable/disable
<b>REBOOTT</b>	Query/Set timing restart function time
<b>TIMEOUTEN</b>	Query/Set timeout restart function enable/disable
<b>TIMEOUTT</b>	Query/Set timeout restart function time

## 4. AT command details

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

### 4.1. AT+E

Format	
Set	AT+E<CR>
Return	<CR><LF>+ok<CR><LF>

**Note:** Default setting of echo function is on, user can send above command to close, then send above command again to open.

### 4.2. AT+ENTM

Format	
Set	AT+ENTM<CR>
Return	<CR><LF>+ok<CR><LF>

### 4.3. AT+NETP

Parameter	Description	Default Value	Range
<Protocol>	Network protocol of Socket A	TCP	TCP/UDP
<CS>	Network mode of Socket A	SERVER	SERVER/CLIENT
<Port>	Port number of Socket A	8899	Less than 65535
<Address>	Remote Server address of Socket A in client mode	10.10.100.10	0.0.0.0~255.255.255.255
		0	Domain name
Format			
Query	AT+NETP<CR>		
Return	<CR><LF>+ok=<Protocol>,<CS>,<Port>,<Address><CR><LF>		
Set	AT+NETP=<Protocol>,<CS>,<Port>,<Address><CR>		
Return	<CR><LF>+ok<CR><LF>		

**Note:** When Socket A work in TCP Server or UDP Server, port can't be 80(HTTP port), 8000(websocket port), 49000(usr-link port).

#### 4.4. AT+UART

Parameter	Description	Default Value	Range
<Baud rate>	Baud rate	57600	300, 600, 1200, 1800, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400, 345600, 460800
<Data bit>	Data bits	8	5, 6, 7, 8
<Stop bit>	Stop bits	1	1, 2
<Parity>	Parity	NONE	NONE, EVEN, ODD
<Flow Control>	Flow Control	NFC	NFC: No flow control
			FC: Hardware flow control(RTS/CTS)
Format			
Query	AT+UART<CR>		
Return	<CR><LF>+ok=<Baud rate>,<Data bit>,<Stop bit>,<Parity>,<Flow Control><CR><LF>		
Set	AT+UART=<Baud rate>,<Data bit>,<Stop bit>,<Parity>,<Flow Control><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.5. AT+UARTF

Parameter	Description	Range
<Status>	Status of serial package function	enable/disable
Format		
Query	AT+UARTF<CR>	
Return	<CR><LF>+ok=<Status><CR><LF>	
Set	AT+UARTF=<Status><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.6. AT+UARTFT

Parameter	Description	Range
<Time>	Serial package triggering time	100~10000ms
Format		
Query	AT+UARTFT<CR>	
Return	<CR><LF>+ok=<Time><CR><LF>	
Set	AT+UARTFT=<Time><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.7. AT+UARTFL

Parameter	Description	Range
<Length>	Serial package triggering length	16~4096 bytes

Format	
Query	AT+UARTFL<CR>
Return	<CR><LF>+ok=<Length><CR><LF>
Set	AT+UARTFL=<Length><CR>
Return	<CR><LF>+ok<CR><LF>

#### 4.8. AT+TMODE

Parameter	Description	Default Value	Range
<Mode>	W610 data transmission mode	Through	Through: Transparent Transmission mode
			Agreement: Serial port command mode
			Modbus: Modbus TCP<=>Modbus RTU
			Httpdclient: HTTP Client mode
Format			
Query	AT+TMODE<CR>		
Return	<CR><LF>+ok=<Mode><CR><LF>		
Set	AT+TMODE=<Mode><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.9. AT+WMODE

Parameter	Description	Default Value	Range
<Mode>	W610 WiFi mode	AP	AP/STA
Format			
Query	AT+WMODE<CR>		
Return	<CR><LF>+ok=<Mode><CR><LF>		
Set	AT+WMODE=<Mode><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.10. AT+WSKEY

Parameter	Description	Default Value	Range
<AUTH>	Authentication mode	OPEN	OPEN/WPAPSK/WPA2PSK/SHARED
<Encryption>	Encryption algorithm	NONE	NONE: Take effect in <AUTH>=OPEN
			TKIP/AES: Take effect in <AUTH>=WPAPSK or WPA2PSK
			WEP-A/WEP-H: Take effect in <AUTH>=SHARED or OPEN(H means HEX, A means ASCII)
<Password>	Password	No default value	<AUTH>= WPAPSK/WPA2PSK: ASCII format, 8~63 bytes



			<Encryption>=WEP-A: ASCII format, 5 or 13 bytes
			<Encryption>=WEP-H: HEX format, 10 or 26 bytes
<b>Format</b>			
Query	AT+WSKEY<CR>		
Return	<CR><LF>+ok=<AUTH>,<Encryption>,<Password><CR><LF>		
Set	AT+WSKEY=<AUTH>,<Encryption>,<Password><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.11. AT+WSSSID

Parameter	Description	Range
<SSID>	SSID of connected AP in STA mode	Less than 32 bytes
<b>Format</b>		
Query	AT+WSSSID<CR>	
Return	<CR><LF>+ok=<SSID><CR><LF>	
Set	AT+WSSSID=<SSID><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.12. AT+WSLK

Parameter	Description	Range
<Status>	Connection status of W610 in STA mode	Disconnected: No connection with any AP
		SSID of connected AP if connected
		RF Off: Close WIFI
<b>Format</b>		
Query	AT+WSLK<CR>	
Return	<CR><LF>+ok=<Status><CR><LF>	

#### 4.13. AT+WEBU

Parameter	Description	Default Value	Range
<Username>	Username of Web Server	admin	Less than 16 bytes
<Password>	Password of Web Server	admin	Less than 16 bytes
<b>Format</b>			
Query	AT+WEBU<CR>		
Return	<CR><LF>+ok=<Username>,<Password><CR><LF>		
Set	AT+WEBU=<Username>,<Password><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.14. AT+WAP

Parameter	Description	Range
<Mode>	WiFi mode	11B/11BG/11BGN/11G/11N

<SSID>	SSID in AP mode	Less than 32 bytes
<Channel>	WiFi channel	AUTO/CH1~CH11
<b>Format</b>		
Query	AT+WAP<CR>	
Return	<CR><LF>+ok=<Mode>,<SSID>,<Channel><CR><LF>	
Set	AT+WAP=<Mode>,<SSID>,<Channel><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.15. AT+WAKEY

Parameter	Description	Default Value	Range
<AUTH>	Authentication mode	OPEN	OPEN/SHARED/WPAPSK/WPA2PSK
<Encryption>	Encryption algorithm	NONE	NONE: Take effect in <AUTH>=OPEN
			WEP-A/WEP-H: Take effect in <AUTH>=SHARED or OPEN(H means HEX, A means ASCII)
			TKIP/AES/TKIPAES: Take effect in <AUTH>= WPAPSK/WPA2PSK
<Password>	Password	No default value	<AUTH>= WPAPSK/WPA2PSK: ASCII format, 8~63 bytes
			<Encryption>=WEP-A: ASCII format, 5 or 13 bytes
			<Encryption>=WEP-H: HEX format, 10 or 26 bytes
<b>Format</b>			
Query	AT+WAKEY<CR>		
Return	<CR><LF>+ok=<AUTH>,<Encryption>,<Password><CR><LF>		
Set	AT+WAKEY=<AUTH>,<Encryption>,<Password><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.16. AT+MSLP

Parameter	Description	Default Value	Range
<Status>	Status of Sleep mode	on	on: Exit Sleep mode
			off: Enter Sleep mode
<b>Format</b>			
Query	AT+MSLP<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+MSLP=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

**Note:** When module enter sleep mode and user send AT+MSLP=ON to exit sleep mode, module will enter AT command mode.

#### 4.17. AT+WSCAN

Parameter	Description
<RSSI>	RSSI of AP that be searched by W610
<SSID>	AP's SSID that be searched by W610
<BSSID>	MAC address of AP that be searched by W610
<Channel>	WiFi network channel
<Encryption>	Encryption algorithm of AP that searched by W610
<Authentication>	Authentication mode of AP that searched by W610
Format	
Query	AT+WSCAN<CR>
Return	<CR><LF>+ok=<LF><CR>RSSI,SSID,BSSID,Channel,Encryption,Authentication<LF><CR><RSSI1><SSID1>,<BSSID1>,<Channel1>,<Encryption1>,<Authentication1><LF><CR><RSSI2><SSID2>,<BSSID2>,<Channel2>,<Encryption2>,<Authentication2><LF><CR>.....<LF><CR><RSSIN><SSIDN>,<BSSIDN>,<ChannelN>,<EncryptionN>,<AuthenticationN><CR><LF>

#### 4.18. AT+TCPLK

Parameter	Description	Range
<Status>	Status of TCP connection of Socket A	on: TCP connection connected
		off: TCP connection disconnected
Format		
Query	AT+TCPLK<CR>	
Return	<CR><LF>+ok=<Status><CR><LF>	

#### 4.19. AT+TCPDIS

Parameter	Description	Default Value	Range
<Status>	Allowing establishing TCP connection in TCP Client mode	on	on: Allow connecting, after setting to on, starting to connect to server immediately
			off: Disallow connecting, after setting to off, disconnecting immediately and not to reconnect
Format			
Query	AT+TCPDIS<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+TCPDIS=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

## 4.20. AT+WANN

Parameter	Description	Default Value	Range
<Mode>	How to get IP address in STA mode	DHCP	static/DHCP
<IP address>	IP address in STA mode	0.0.0.0	0.0.0.0~255.255.255.255
<Mask>	Subnet mask in STA mode	0.0.0.0	0.0.0.0~255.255.255.255
<Gateway>	Gateway address in STA mode	0.0.0.0	0.0.0.0~255.255.255.255
Format			
Query	AT+WANN<CR>		
Return	<CR><LF>+ok=<Mode>,<IP address>,<Mask>,<Gateway><CR><LF>		
Set	AT+WANN=<Mode>,<IP address>,<Mask>,<Gateway><CR>		
Return	<CR><LF>+ok<CR><LF>		

## 4.21. AT+LANN

Parameter	Description	Default Value	Range
<IP address>	IP address of W610 in AP mode	10.10.100.254	0.0.0.0~255.255.255.255
<Mask>	Subnet mask of W610 in AP mode	255.255.255.0	0.0.0.0~255.255.255.255
Format			
Query	AT+LANN<CR>		
Return	<CR><LF>+ok=<IP address>,<Mask><CR><LF>		
Set	AT+LANN=<IP address>,<Mask><CR>		
Return	<CR><LF>+ok<CR><LF>		

**Note:** WAN interface IP(AT+WANN) and LAN interface IP(AT+LANN) can't in same network segment.

## 4.22. AT+TCPTO

Parameter	Description	Default Value	Range
<Time>	Timeout re-connection time of socket A	0	0-600s
			0 (Close function)
Format			
Query	AT+TCPTO<CR>		
Return	<CR><LF>+ok=<Time><CR><LF>		
Set	AT+TCPTO=<Time><CR>		
Return	<CR><LF>+ok<CR><LF>		

### 4.23. AT+MAXSK

Parameter	Description	Default Value	Range
<NUM>	Maximum TCP Clients that W610 support in TCP Server	24	1~24
<b>Format</b>			
Query	AT+MAXSK<CR>		
Return	<CR><LF>+ok=<NUM><CR><LF>		
Set	AT+MAXSK=<NUM><CR>		
Return	<CR><LF>+ok<CR><LF>		

### 4.24. AT+TCPB

Parameter	Description	Range
<Status>	Status of socket B	on/off
<b>Format</b>		
Query	AT+TCPB<CR>	
Return	<CR><LF>+ok=<Status><CR><LF>	
Set	AT+TCPB=<Status><CR>	
Return	<CR><LF>+ok<CR><LF>	

### 4.25. AT+TCPPTB

Parameter	Description	Range
<Port>	Port number of Socket B	1~65535
<b>Format</b>		
Query	AT+TCPPTB<CR>	
Return	<CR><LF>+ok=<Port><CR><LF>	
Set	AT+TCPPTB=<Port><CR>	
Return	<CR><LF>+ok<CR><LF>	

### 4.26. AT+TCPADDB

Parameter	Description	Range
<Address>	Remote server address of socket B	0.0.0.0~255.255.255.255
		Domain name
<b>Format</b>		
Query	AT+TCPADDB<CR>	
Return	<CR><LF>+ok=<Address><CR><LF>	
Set	AT+TCPADDB=<Address><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.27. AT+TCPTOB

Parameter	Description	Default Value	Range
<Time>	Timeout re-connection time of socket B	0	0-600s
			0 (Close function)
Format			
Query	AT+TCPTOB<CR>		
Return	<CR><LF>+ok=<Time><CR><LF>		
Set	AT+TCPTOB=<Time><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.28. AT+TCPLKB

Parameter	Description	Range
<Status>	Status of TCP connection of Socket B	on: TCP connection connected
		off: TCP connection disconnected
Format		
Query	AT+TCPLKB<CR>	
Return	<CR><LF>+ok=<Status><CR><LF>	

#### 4.29. AT+EPHY

Format	
Set	AT+EPHY<CR>
Return	<CR><LF>+ok<CR><LF>

**Note:** To reduce power consumption, default of Ethernet interface is off. When user sends above AT+EPHY command to open Ethernet interface, the setting won't be saved after restarting(Ethernet interface will disable after restarting). So user can send AT+FEPHY=on to enable Ethernet interface permanently.

User can also use AT+FVEW=disable/enable to set Ethernet interface in LAN interface(disable) or WAN interface(enable). This command will take effect after resetting to default settings.

#### 4.30. AT+RELD

Format	
Set	AT+RELD<CR>
Return	<CR><LF>+ok=rebooting...<CR><LF>

#### 4.31. AT+FUDLX

Parameter	Description	Range
<Status>	Status of RS485 function	on/off
Format		
Set	AT+FUDLX=<Status><CR>	
Return	<CR><LF>+ok<CR><LF>	

**Note:** Default of RS485 is off and this command will take effect after resetting to default settings.

#### 4.32. AT+MMID

Parameter	Description	Range
<ID>	Module ID	0~65535
<b>Format</b>		
Query	AT+MMID<CR>	
Return	<CR><LF>+ok=<ID><CR><LF>	
Set	AT+MMID=<ID><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.33. AT+IDFIR

Parameter	Description	Default	Range
<Status>	Status of sending two bytes ID and two bytes ID inverse code after firstly establishing connection function	off	on/off
<b>Format</b>			
Query	AT+IDFIR<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+IDFIR=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.34. AT+IDEVE

Parameter	Description	Default	Range
<Status>	Status of sending two bytes ID and two bytes ID inverse code before every data function	off	on/off
<b>Format</b>			
Query	AT+IDEVE<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+IDEVE=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.35. AT+AABR

Parameter	Description	Default	Range
<Status>	Status of baud rate synchronization function	on	on/off
<b>Format</b>			
Query	AT+AABR<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+AABR=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.36. AT+DHCPDEN

Parameter	Description	Default	Range
<Status>	Status of LAN interface DHCP Server function	on	on/off
Format			
Query	AT+DHCPDEN<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+DHCPDEN=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.37. AT+HIDESSID

Parameter	Description	Default	Range
<Status>	Status of hiding SSID of W610 in AP mode	off	on/off
Format			
Query	AT+HIDESSID<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+HIDESSID=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.38. AT+DOMAIN

Parameter	Description
<Name>	Domain name to enter Web Server
Format	
Query	AT+DOMAIN<CR>
Return	<CR><LF>+ok=<Name><CR><LF>
Set	AT+DOMAIN=<Name><CR>
Return	<CR><LF>+ok<CR><LF>

#### 4.39. AT+Z

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

#### 4.40. AT+MID

Parameter	Description
<MID>	Module MID, format: A11-yymmddnnnn. yymmdd means produced date year/month/day. nnnn means production series number
Format	
Query	AT+MID<CR>
Return	<CR><LF>+ok=<MID><CR><LF>



#### 4.41. AT+VER

Parameter	Description
<VER>	Firmware version of the module
Format	
Query	AT+VER<CR>
Return	<CR><LF>+ok=<VER><CR><LF>

#### 4.42. AT+H

Parameter	Description
<Help>	Command help information
Format	
Query	AT+H<CR>
Return	<CR><LF>+ok=<Help><CR><LF>

#### 4.43. AT+WSQY

Parameter	Description	Default Value	Range
<Ret>	RSSI threshold(percentage)	100	0~100. 100: Not to automatically switch AP
Format			
Query	AT+WSQY<CR>		
Return	<CR><LF>+ok=<Ret><CR><LF>		
Set	AT+WSQY=<Ret><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.44. AT+HTPMODE

Parameter	Description	Default Value	Range
<Type>	HTTP Client configuration mode	new	new/old
Format			
Query	AT+HTPMODE<CR>		
Return	<CR><LF>+ok=<Type><CR><LF>		
Set	AT+HTPMODE=<Type><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.45. AT+HTTPURL

Parameter	Description	Range
<Address>	Server address	IP address: 0.0.0.0~255.255.255.255
		Domain name: 1-64 bytes
<Port>	Server port	0-65535
Format		
Query	AT+HTTPURL<CR>	

Return	<CR><LF>+ok=<Address>,<Port><CR><LF>
Set	AT+HTTPURL=<Address>,<Port><CR>
Return	<CR><LF>+ok<CR><LF>

#### 4.46. AT+HTTPTP

Parameter	Description	Default Value	Range
<Method>	HTTP requesting method	GET	GET/PUT/POST
<b>Format</b>			
Query	AT+HTTPTP<CR>		
Return	<CR><LF>+ok=<Method><CR><LF>		
Set	AT+HTTPTP=<Method><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.47. AT+HTTTPH

Parameter	Description	Default Value
<Path>	HTTP header path	/abcd
<b>Format</b>		
Query	AT+HTTTPH<CR>	
Return	<CR><LF>+ok=<Path><CR><LF>	
Set	AT+HTTTPH=<Path><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.48. AT+HTTPCN

Parameter	Description	Default Value
<Connection>	HTTP header connection	keep-alive
<b>Format</b>		
Query	AT+HTTPCN<CR>	
Return	<CR><LF>+ok=<Connection><CR><LF>	
Set	AT+HTTPCN=<Connection><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.49. AT+HTTTPUA

Parameter	Description	Default Value
< User-Agent>	HTTP header User-Agent	lwip1.3.2
<b>Format</b>		
Query	AT+HTTTPUA<CR>	
Return	<CR><LF>+ok=< User-Agent><CR><LF>	
Set	AT+HTTTPUA=< User-Agent><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.50. AT+HTPSV

Parameter	Description	Range
<Address>	Server address	IP address: 0.0.0.0~255.255.255.255
		Domain name: 1-64 bytes
<Port>	Server port	0-65535
Format		
Query	AT+HTPSV<CR>	
Return	<CR><LF>+ok=<Address>,<Port><CR><LF>	
Set	AT+HTPSV=<Address>,<Port><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.51. AT+HTPTP

Parameter	Description	Default Value	Range
<Method>	HTTP request method	GET	GET/PUT/POST
Format			
Query	AT+HTPTP<CR>		
Return	<CR><LF>+ok=<Method><CR><LF>		
Set	AT+HTPTP=<Method><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.52. AT+HTPURL

Parameter	Description	Default Value	Range
<URL>	HTTP URL	/abcd	Length:1~64 bytes
Format			
Query	AT+HTPURL<CR>		
Return	<CR><LF>+ok=<URL><CR><LF>		
Set	AT+HTPURL=<URL><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.53. AT+HTPHEAD

Parameter	Description	Default Value	Range
<Header>	HTTP header data	Content-type:text/html;chars et=utf-8(User should use <<CRLF>> to replace carriage return and line feed)	Length: 0~200 bytes
Format			
Query	AT+HTPHEAD<CR>		
Return	<CR><LF>+ok=<Header><CR><LF>		
Set	AT+HTPHEAD=<Header><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.54. AT+REGEN

Parameter	Description	Default Value	Range
<Status>	Status of identity packet	off	id: Use 2 bytes ID code and 2 bytes ID inverse code as identity packet mac: Use 6 bytes MAC address as identity packet usr: Use user editable identity packet, less than 32 bytes cloud: Use USR Cloud ID as identity packet(only support FIRST method) off: Disable the identity packet function
<b>Format</b>			
Query	AT+REGEN<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+REGEN=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.55. AT+REGTCP

Parameter	Description	Default Value	Range
<Method>	Identity packet sending method	first	first: Only sending identity packet before first packet after firstly connecting to server every: Sending identity packet in every packet.
<b>Format</b>			
Query	AT+REGTCP<CR>		
Return	<CR><LF>+ok=<Method><CR><LF>		
Set	AT+REGTCP=<Method><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.56. AT+WTPWR

Parameter	Description	Default Value	Range
<NUM>	Module transmitting power	100	0~100
<b>Format</b>			
Query	AT+WTPWR<CR>		
Return	<CR><LF>+ok=<NUM><CR><LF>		
Set	AT+WTPWR=<NUM><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.57. AT+REGCLOUD

Parameter	Description	Range
<ID>	USR Cloud ID	Length: 20 bytes
<Password>	USR Cloud password	Length: Less than 8 bytes
Format		
Query	AT+REGCLOUD<CR>	
Return	<C+R><LF>+ok=<ID>,<Password><CR><LF>	
Set	AT+REGCLOUD=<ID>,<Password><CR>	
Return	<CR><LF>+ok<CR><LF>	

#### 4.58. AT+REGUSR

Parameter	Description	Default Value	Range
<Data>	User editable identity packet data	7777772E7573722 E636E	Length: Less than 40 bytes, HEX format
Format			
Query	AT+REGUSR<CR>		
Return	<CR><LF>+ok=<Data><CR><LF>		
Set	AT+REGUSR=<Data><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.59. AT+TCPDPEN

Parameter	Description	Default Value	Range
<Status>	Status of socket distribution function	off	on/off
Format			
Query	AT+TCPDPEN<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		
Set	AT+TCPDPEN=<Status><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.60. AT+HEARTEN

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

#### 4.61. AT+HEARTTP

Parameter	Description	Default Value	Range
<Type>	Sending method of heartbeat packet	NET	NET: Sending to Network Server
			COM: Sending to serial port
<b>Format</b>			
Query	AT+HEARTTP<CR>		
Return	<CR><LF>+ok=<Type><CR><LF>		
Set	AT+HEARTTP=<Type><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.62. AT+HEARTDT

Parameter	Description	Default Value	Range
<Data>	Heartbeat packet data	7777772E7573 722E636E	Less than 40 bytes, HEX format
<b>Format</b>			
Query	AT+HEARTDT<CR>		
Return	<CR><LF>+ok=<Data><CR><LF>		
Set	AT+HEARTDT=<Data><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.63. AT+HEARTTM

Parameter	Description	Default Value	Range
<Interval>	Heartbeat packet sending interval	30s	Can be set between 1-65535s. But keep-alive time is 60s, so Heartbeat packet sending interval can only take effect between 1-60s.
<b>Format</b>			
Query	AT+HEARTTM<CR>		
Return	<CR><LF>+ok=<Interval><CR><LF>		
Set	AT+HEARTTM=<Interval><CR>		
Return	<CR><LF>+ok<CR><LF>		

#### 4.64. AT+REBOOTEN

Parameter	Description	Default Value	Range
<Status>	Status of timing restarting function	off	on/off
<b>Format</b>			
Query	AT+REBOOTEN<CR>		
Return	<CR><LF>+ok=<Status><CR><LF>		

<b>Set</b>	<b>AT+REBOOTEN=&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>

#### 4.65. AT+REBOOTT

Parameter	Description	Default Value	Range
<Time>	Time of timing restarting function	24h	1~720h
<b>Format</b>			
<b>Query</b>	<b>AT+REBOOTT&lt;CR&gt;</b>		
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;+ok=&lt;Time&gt;&lt;CR&gt;&lt;LF&gt;</b>		
<b>Set</b>	<b>AT+REBOOTT=&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>		

#### 4.66. AT+TIMEOUTEN

Parameter	Description	Default Value	Range
<Status>	Status of timeout restarting function	off	on/off
<b>Format</b>			
<b>Query</b>	<b>AT+TIMEOUTEN&lt;CR&gt;</b>		
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;+ok=&lt;Status&gt;&lt;CR&gt;&lt;LF&gt;</b>		
<b>Set</b>	<b>AT+TIMEOUTEN=&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>		

#### 4.67. AT+TIMEOUTT

Parameter	Description	Default Value	Range
<Time>	Time of timeout restarting function	3600s	60-65535s
<b>Format</b>			
<b>Query</b>	<b>AT+TIMEOUTT&lt;CR&gt;</b>		
<b>Return</b>	<b>&lt;CR&gt;&lt;LF&gt;+ok=&lt;Time&gt;&lt;CR&gt;&lt;LF&gt;</b>		
<b>Set</b>	<b>AT+TIMEOUTT=&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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