

USR-N520 AT Command Set

(Firmware 3033 V1.0.5)

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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.

Powered successfully, we can setting the module with UART.

The default UART port parameters of the module are: baud rate 115200, no parity, data 8 and stop 1.

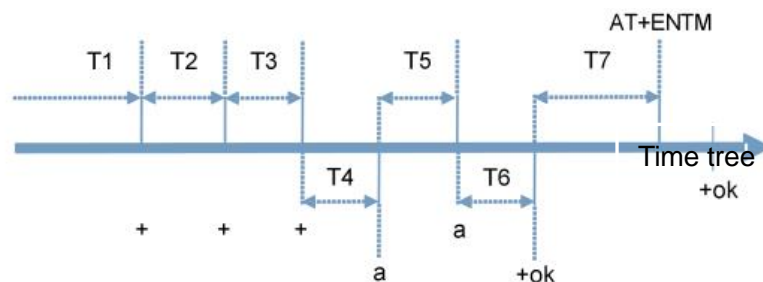
Recommend to use secureCRT software tool or testing program of USRIOT.

Below are using the secureCRT to operate AT command:

Need two step as below:

- Fill “+++” in the UART. After the module receive the “+++”, then will return an “a” to confirm;
- When you receive an 'a', then you need to send other 'a' within 3 seconds
- After that, module will return “+ok” to enter into the command mode.

Fill “+++” and “a” need to achieve in the time to reduce the chance of entering command mode while working normally accidentally. Detail requirement are as follows.



Time requirement:

T1 > the interval of serial port package

T2 < 300ms

T3 < 300ms

T5 < 3s

Change transparent transmission mode to AT command mode :

1. Serial mode device send “+++” to module continuously. If the module received ‘+++’ successfully then it will send “a” back.

2. When module received “a” and then user need to send other “a” to uart within 3s.
3. The module will return ‘+ok’ when module received ‘a’ successfully. And enter into command mode

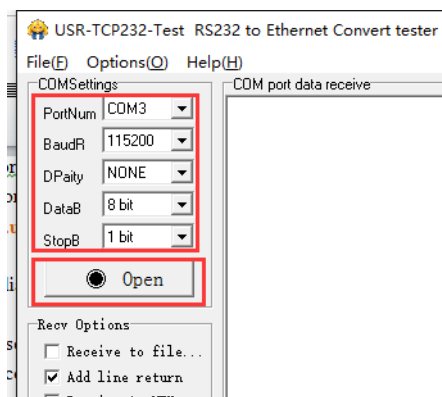
Change AT command mode to transparent transmission mode:

1. Serial device send “AT+ENTM”to module.
2. After the module receive the commend, feedback “+ok”, then back to the previous working mode.

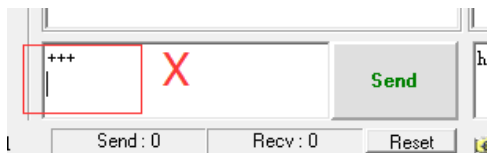
Example: Use USR-TCP232-Test.exe software to send serial command or use your own serial software or MCU send command to our module.



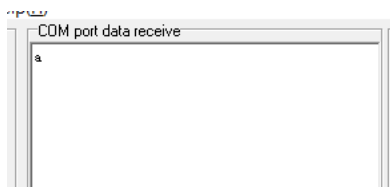
Open test program and configure the serial parameters. Click ‘Open’:



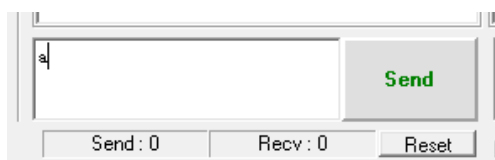
Send +++ to serial. **Notes** do not add a SPACE or ENTER, that will not return the correct character.



If you give a correct command, the module will return an 'a' likes this:



When you receive an 'a', then you need to send an 'a' within 3 seconds. You can not add any SPACE or ENTER either.



The module will return +Ok. The the module enter into the AT command mode.



Now you can send AT command to the module, but you should add an ENTER after your command.



3. Error Code

Error	State
ERR1	Invalid command format
ERR2	Invalid command
ERR3	Invalid Operator
ERR4	Invalid Parameters
ERR5	Operation not allowed
ERR6	No operation permission

4.AT command set

Command	Function
E	Query/Set AT command Echo function enable/disable
Z	Reset the module
VER	Query firmware version
ENTM	Exit serial AT command mode and enter work mode
MAC	Query MAC address
USERMAC	Set MAC address
RELD	Restore default settings
WANN	Query/Set WAN interface parameters
MID	Query/Set module name
DNS	Query/Set DNS address
WEBU	Query/Set Web Server username and password
WEBPORT	Query/Set Web Server port number
SEARCH	Query/Set searching port and keyword in LAN

PLANG	Query/Set default language of Web Server
RSTIM	Query/Set timeout reset function time
UARTCLBUF	Query/Set whether clearing serial port cache before module establishing connection
UARTn	Query/Set serial port n parameters
UARTMDn	Query/Set serial port n work mode
UARTTLn	Query/Set serial port n serial package time and serial package length
RFCENn	Query/Set serial port n baud rate synchronization function enable/ disable
SOCKAn	Query/Set serial port n socket A parameters
SOCKBn	Query/Set serial port n socket B parameters
SOCKLKA	Query serial port n socket A connection status
SOCKLKB	Query serial port n socket B connection status
SOCKSLn	Query/Set serial port n non-persistent connection function enable/ disable
SHORTOn	Query/Set serial port n non-persistent connection function time
SOCKTONn	Query/Set serial port n timeout reconnect time
MODTCPn	Query/Set serial port n Modbus RTU<=>Modbus TCP function enable/disable
MODPOLLn	Query/Set serial port n Modbus Polling enable/disable
MODTON	Query/Set serial port n Modbus Polling time
NETPRn	Query/Set serial port n Network Printing function enable/disable
WEBSOCKETPORT1	Query/Set serial port 1 Websocket port number
REGENn	Query/Set serial port n identity packet enable/disable
REGTCPn	Query/Set serial port n sending method of identity packet
REGUSERn	Query/Set serial port n user editable identity packet data
REGCLOUDn	Query/Set serial port n USR Cloud ID and password
HTPTPn	Query/Set serial port n HTTP requesting method in HTTP Client mode
HTPURLn	Query/Set serial port n URL in HTTP Client mode
HTPHEADn	Query/Set serial port n HTTP header in HTTP Client mode
HTPCHDn	Query/Set serial port n filtering HTTP header of response data enable/ disable
HEARTENn	Query/Set serial port n heartbeat packet function enable/disable
HEARTTPn	Query/Set serial port n heartbeat packet type
HEARTDTn	Query/Set serial port n user editable heartbeat packet data
HEARTTMn	Query/Set serial port n heartbeat packet interval time

Note: USR-N520 has 2 serial ports, so n=1,2.

5. AT command details

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

5.1. AT+E

Parameter	Description	Default Value	Range
<Status>	Status of AT command Echo function	ON	ON/OFF
Format			
Query	AT+E<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+E=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.2. AT+Z

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

5.3. AT+VER

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

5.4. AT+ENTM

Format	
Query	AT+ENTM<CR>
Return	<CR><LF>+OK<CR><LF>

5.5. AT+MAC

Parameter	Description	Range
<MAC>	MAC address of the module.	USR MAC start with D8B04C

Format	
Query	AT+MAC<CR>
Return	<CR><LF>+OK=<MAC><CR><LF>

5.6. AT+USERMAC

Parameter	Description	Range
<MAC>	MAC address	USR MAC start with D8B04C
Format		
Set	AT+USERMAC=<MAC><CR>	
Return	<CR><LF>+OK<CR><LF>	

5.7. AT+RELD

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

5.8. AT+WANN

Parameter	Description	Default Value	Range
<Mode>	How to get IP address	STATIC	STATIC: Get the IP address manually
			DHCP: Get the IP address automatically
<IP address>	IP address	192.168.0.7	0.0.0.0~255.255.255.255
<Mask>	Subnet mask	255.255.255.0	0.0.0.0~255.255.255.255
<Gateway>	Gateway	192.168.0.1	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>		

5.9. AT+MID

Parameter	Description	Default Value	Range
<Name>	Module name	USR-N520	1~15 Bytes
Format			
Query	AT+MID<CR>		
Return	<CR><LF>+OK=<Name><CR><LF>		
Set	AT+MID=<Name><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.10. AT+DNS

Parameter	Description	Default Value	Range
<Address>	DNS server address	208.67.222.222	0.0.0.0~255.255.255.255
Format			
Query	AT+DNS<CR>		
Return	<CR><LF>+OK=<Address><CR><LF>		
Set	AT+DNS=<Address><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.11. AT+WEBU

Parameter	Description	Default Value	Range
<Username>	Web Server username	admin	1~5 bytes
<Password>	Web Server password	admin	1~5 bytes
Format			
Query	AT+WEBU<CR>		
Return	<CR><LF>+OK=<Username>,<Password><CR><LF>		
Set	AT+WEBU=<Username>,<Password><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.12. AT+WEBPORT

Parameter	Description	Default Value	Range
<Port>	Web Server port	80	1~65535
Format			

Query	AT+WEBPORT<CR>
Return	<CR><LF>+OK=<Port><CR><LF>
Set	AT+WEBPORT=<Port><CR>
Return	<CR><LF>+OK<CR><LF>

5.13. AT+SEARCH

Parameter	Description	Default Value	Range
<Port>	UDP port for searching	48899	1~65535
<Keyword>	Searching keyword	WWW.USR.CN	1~20 bytes
Format			
Query	AT+SEARCH<CR>		
Return	<CR><LF>+OK=<Port>,<Keyword><CR><LF>		
Set	AT+SEARCH=<Port>,<Keyword><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.14. AT+PLANG

Parameter	Description	Default Value	Range
<Language>	Web Server language	EN	EN: English
			CH: Chinese
Format			
Query	AT+PLANG<CR>		
Return	<CR><LF>+OK=<Language><CR><LF>		
Set	AT+PLANG=<Language><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.15. AT+RSTIM

Parameter	Description	Default Value	Range
<Time>	Timeout reset function time	3600s	0, 60-65535s
Format			
Query	AT+RSTIM<CR>		
Return	<CR><LF>+OK=<Time><CR><LF>		
Set	AT+RSTIM=<Time><CR>		

Return	<CR><LF>+OK<CR><LF>
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5.16. AT+UARTCLBUF

Parameter	Description	Default Value	Range
<Status>	Whether clearing serial port cache before module establishing connection	OFF	ON/OFF
Format			
Query	AT+UARTCLBUF<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+UARTCLBUF=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.17. AT+UARTn

Parameter	Description	Default Value	Range
<Baud rate>	Baud rate	115200	600~1024000
<Data bits>	Data bits	8	5, 6, 7, 8
<Stop bits>	Stop bits	1	1, 2
<Parity>	Parity	NONE	NONE, EVEN, ODD, MASK, SPACE
<Flow Control>	Flow Control	NFC	NFC: No flow control
			FC: Hardware flow control(RTS/CTS)
Format			
Query	AT+UARTn<CR>		
Return	<CR><LF>+OK=<Baud rate>,<Data bits>,<Stop bits>,<Parity><Flow Control><CR><LF>		
Set	AT+UARTn=<Baud rate>,<Data bits>,<Stop bits>,<Parity><Flow Control><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.18. AT+UARTMDn

Parameter	Description	Default Value	Range
<Mode>	Serial port n work mode	SWITCH	SWITCH/RS232/RS422/RS485
Format			
Query	AT+UARTMDn<CR>		

Return	<CR><LF>+OK=<Mode>CR<LF>
Set	AT+UARTMDn=<Mode><CR>
Return	<CR><LF>+OK<CR><LF>

5.19. AT+UARTTLn

Parameter	Description	Default Value	Range
<Time>	Serial port package time	0	0~255 ms
<Length>	Serial port package length	0	0~1460 bytes
Format			
Query	AT+UARTTLn<CR>		
Return	<CR><LF>+OK=<Time>,<Length><CR><LF>		
Set	AT+UARTTLn=<Time>,<Length><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.20. AT+RFCENn

Parameter	Description	Default Value	Range
<Status>	Status of baud rate synchronization function	ON	ON/OFF
Format			
Query	AT+RFCENn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+RFCENn=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.21. AT+SOCKAn

Parameter	Description	Default Value	Range
<Protocol>	Network protocol	TCPS	TCPS: TCP Server mode
			TCPC: TCP Client mode
			UDPS: UDP Server mode
			UDPC: UDP Client mode
			HTPC: HTTP Client mode
<IP address>	Remote Server IP address (in client mode)	192.168.0.201	0.0.0.0~255.255.255.255

<Port>	Port number	n=1,2 port=23,26	1~65535 Local port in Server mode Remote port in Client mode
Format			
Query	AT+SOCKAn<CR>		
Return	<CR><LF>+OK=<Protocol>,<IP address>,<Port><CR><LF>		
Set	AT+SOCKAn=<Protocol>,<IP address>,<Port><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.22. AT+SOCKBn

Parameter	Description	Default Value	Range
<Protocol>	Network protocol	NONE	TCPC: TCP Client mode
			UDPC: UDP Client mode
<IP address>	Remote Server IP address (in client mode)	192.168.0.201	0.0.0.0~255.255.255.255
<Port>	Port number	n=1,2 port=20105/20108	1~65535 Local port in Server mode Remote port in Client mode
Format			
Query	AT+SOCKBn<CR>		
Return	<CR><LF>+OK=<Protocol>,<IP address>,<Port><CR><LF>		
Set	AT+SOCKBn=<Protocol>,<IP address>,<Port><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.23. AT+SOCKLKA

Parameter	Description	Default Value	Range
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<Status>	Status of serial port n socket A	IDLE	IDLE: Module is booting or disabling Keep-Alive function
			LISTEN: Waiting client (Module is in TCP Server mode)
			CONNECTING: Module is connecting to TCP Server (Module is in TCP Client mode)
			CONNECTED: TCP connection is established
			CONNECTED(n): n is the number of TCP Clients which connect to module (Module is in TCP server mode)
			ERROR: Connection Error
Format			
Query	AT+SOCKLkAn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		

5.24. AT+SOCKLkBn

Parameter	Description	Default Value	Range
<Status>	Status of serial port n socket B	IDLE	IDLE: Module is booting or disabling Keep-Alive function
			LISTEN: Waiting client (Module is in TCP Server mode)
			CONNECTING: Module is connecting to TCP Server (Module is in TCP Client mode)
			CONNECTED: TCP connection is established
			CONNECTED(n): n is the number of TCP clients which connect to module (Module is in TCP server mode)
			ERROR: Connection Error
Format			
Query	AT+SOCKLkBn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		

5.25. AT+SOCKSLn

Parameter	Description	Default Value	Range
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<Status>	Status of serial port n non-persistent connection function	OFF	ON/OFF
Format			
Query	AT+SOCKSLn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+SOCKSLn=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.26. AT+SHORTOn

Parameter	Description	Default Value	Range
<Time>	Non-persistent connection time	3s	2-255s
Format			
Query	AT+SHORTOn<CR>		
Return	<CR><LF>+OK=<Time><CR><LF>		
Set	AT+SHORTOn=<Time><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.27. AT+SOCKTONn

Parameter	Description	Default Value	Range
<Time>	Timeout reconnect time	86400s	1-99999s
Format			
Query	AT+SOCKTONn<CR>		
Return	<CR><LF>+OK=<Time><CR><LF>		
Set	AT+SOCKTONn=<Time><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.28. AT+MODTCPn

Parameter	Description	Default Value	Range
<Status>	Status of serial port n Modbus RTU<=>Modbus TCP function	OFF	ON/OFF
Format			

Query	AT+MODTCPn<CR>
Return	<CR><LF>+OK=<Status><CR><LF>
Set	AT+MODTCPn=<Status><CR>
Return	<CR><LF>+OK<CR><LF>

5.29. AT+MODPOLLn

Parameter	Description	Default Value	Range
<Status>	Status of serial port n Modbus Polling function	OFF	ON/OFF
Format			
Query	AT+MODPOLLn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+MODPOLLn=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.30. AT+MODTON

Parameter	Description	Default Value	Range
<Time>	Modbus Polling time	200s	200-9999s
Format			
Query	AT+MODTON<CR>		
Return	<CR><LF>+OK=<Time><CR><LF>		
Set	AT+MODTON=<Time><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.31. AT+NETPRn

Parameter	Description	Default Value	Range
<Status>	Status of serial port n Network Printing function	OFF	ON/OFF
Format			
Query	AT+NETPRn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		

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

5.32. AT+WEBSOCKETPORT1

Parameter	Description	Default Value	Range
<Port>	Websocket port	6432	1~65535
Format			
Query	AT+WEBSOCKETPORT1<CR>		
Return	<CR><LF>+OK=<Port><CR><LF>		
Set	AT+WEBSOCKETPORT1=<Port><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.33. AT+REGENn

Parameter	Description	Default Value	Range
<Status>	Status of identity packet	OFF	OFF: Disabling identity packet
			MAC: Using MAC address as identity packet
			CLOUD: Using USR Cloud ID as identity packet
			USR: Using user editable identity packet
Format			
Query	AT+REGENn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+REGENn=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.34. AT+REGTCPn

Parameter	Description	Default Value	Range
<Method>	Identity packet sending method	First	First: Sending identity packet before first package after establishing connection.
			Every: Sending identity packet in every package.

		ALL: Sending identity packet with above both methods.
Format		
Query	AT+REGTCPn<CR>	
Return	<CR><LF>+OK=<Method><CR><LF>	
Set	AT+REGTCPn=<Method><CR>	
Return	<CR><LF>+OK<CR><LF>	

5.35. AT+REGUSERn

Parameter	Description	Default Value	Range
<Data>	User editable identity packet data	www.usr.cn	Length: 1~40 bytes
Format			
Query	AT+REGUSERn<CR>		
Return	<CR><LF>+OK=<Data><CR><LF>		
Set	AT+REGUSERn=<Data><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.36. AT+REGCLOUDn

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

5.37. AT+HTPTPn

Parameter	Description	Default Value	Range
<Method>	HTTP requesting method	GET	GET/POST
Format			
Query	AT+HTPTPn<CR>		
Return	<CR><LF>+OK=<Method><CR><LF>		

Set	AT+HTPTPn=<Method><CR>
Return	<CR><LF>+OK<CR><LF>

5.38. AT+HTPURLn

Parameter	Description	Default Value	Range
<URL>	HTTP URL	/1.php?	Length: 1~100 bytes
Format			
Query	AT+HTPURLn<CR>		
Return	<CR><LF>+OK=<URL><CR><LF>		
Set	AT+HTPURLn=<URL><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.39. AT+HTPHEADn

Parameter	Description	Default Value	Range
<Header>	HTTP Header	User_Agent: Mozilla/4.0	Length: 0~180 bytes
Format			
Query	AT+HTPHEADn<CR>		
Return	<CR><LF>+OK=<Header><CR><LF>		
Set	AT+HTPHEADn=<Header><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.40. AT+HTPCHDn

Parameter	Description	Default Value	Range
<Status>	Status of filtering HTTP header of response data	ON	ON/OFF
Format			
Query	AT+HTPCHDn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+HTPCHDn=<Status><CR>		
Return:	<CR><LF>+OK<CR><LF>		

5.41. AT+HEARTENn

Parameter	Description	Default Value	Range
<Status>	Status of heartbeat packet	OFF	ON/OFF
Format			
Query	AT+HEARTENn<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+HEARTENn=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.42. AT+HEARTTPn

Parameter	Description	Default Value	Range
<Type>	Type of heartbeat packet	NONE	NONE: Disabling the heartbeat packet
			NET: Sending heartbeat packet to network server
			COM: Sending heartbeat to serial side
Format			
Query	AT+HEARTTPn<CR>		
Return	<CR><LF>+OK=<Type><CR><LF>		
Set	AT+HEARTTPn=<Type><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.43. AT+HEARTDTn

Parameter	Description	Default Value	Range
<Data>	Heartbeat packet data	www.usr.cn	Length: 1~40 bytes
Format			
Query	AT+HEARTDTn<CR>		
Return	<CR><LF>+OK=<Data><CR><LF>		
Set	AT+HEARTDTn=<Data><CR>		
Return	<CR><LF>+OK<CR><LF>		

5.44. AT+HEARTTMn

Parameter	Description	Default Value	Range
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<Time>	Heartbeat packet interval	30	1~65535 seconds
Format			
Query	AT+HEARTTMn<CR>		
Return	<CR><LF>+OK=<Time><CR><LF>		
Set	AT+HEARTTMn=<Time><CR>		
Return	<CR><LF>+OK<CR><LF>		

6.Contact

Company: Jinan USR IOT Technology Limited

Address: Floor 11, Building No.1, No.1166, Xinluo Street, Gaoxin District, Jinan city, Shandong province, 250101 China

Tel: 86-531-88826739

Web: www.usriot.com

Support: h.usriot.com

Email: sales@usr.cn