

USR-N580 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.

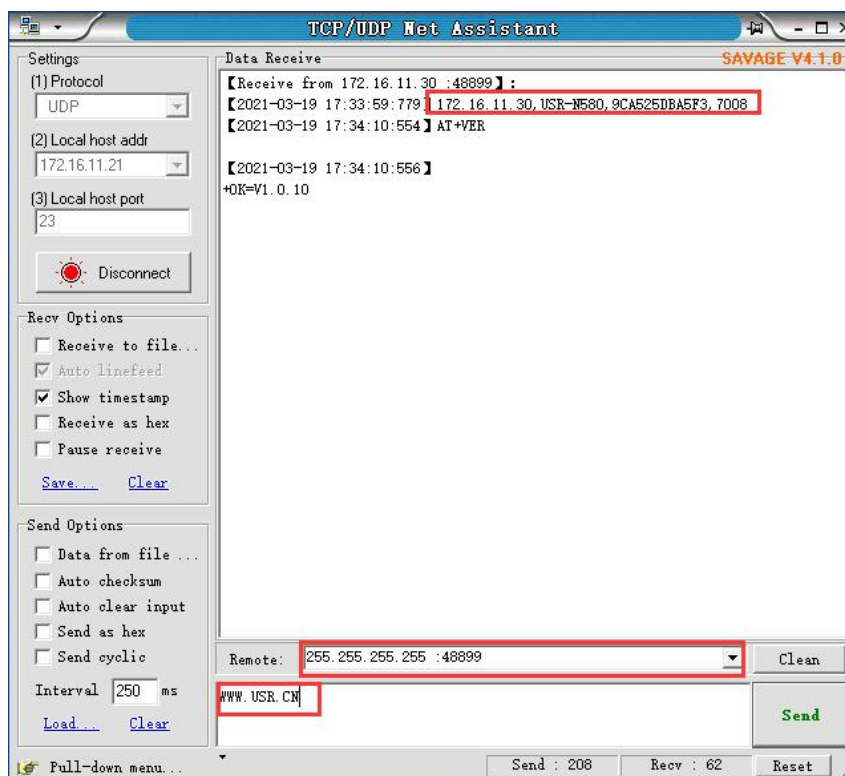
2.1. How to enter AT command mode

AT commands including network AT commands and serial AT commands.

2.2. Network AT Command

When the N580 device and the computer in the same LAN network, can send network AT commands to set the parameters.

Send "WWW.USR.CN" from UDP port 48899, will receive the response data from module. Then can send AT commands to it directly. If there is no AT command sent within 30s, the module will exit AT commands mode automatically.



2.3. Serial AT Command

After power on the device, can send AT commands from the serial port. Serial parameters default to 115200, NONE, 8, 1.

Please read this FAQ about entering AT command mode: <https://www.pusr.com/support/faq/how-to-send-at-command>

3. AT command

Command	Function
E	Query/Set AT command echo
Z	Restart the USR device
VER	Query firmware version
ENTM	Exit serial AT command mode and enter work mode
MAC	Query MAC address
RELD	Restore factory settings
WANN	Query/Set WAN port parameters
DNS	Query/Set DNS address
WEBU	Query/Set settings web server username and password
WEBPORT	Query/Set settings web server port number
SEARCH	Query/Set search port and keyword in LAN
PLANG	Query/Set default language of web server
UARTN	Query/Set serial port N parameters
UARTTLN	Query/Set serial package time and length of serial port N
SOCKMN	Query/Set socket M parameters of serial port N
SOCKLKMN	Query socket connection status
WEBSOCKET1	Query/Set websocket port number
REGENN	Query/Set serial port N identity packet type
REGTCPN	Query/Set serial port N sending location of identity packet
REGUSRN	Query/Set serial port N User's identity packet data, only support ASCII
REGCLOUDN	Query/Set serial port N USR Cloud ID and password
HTPTPN	Query/Set serial port N HTTP method
HTPURLN	Query/Set serial port N URL
HTPHEADN	Query/Set serial port N HTTP header
HTPCHDN	Query/Set serial port N filtering HTTP header of response data enabled/disabled
HEARTENN	Query/Set serial port N heartbeat packet enable/disable
HEARTTPN	Query/Set serial port N type of heartbeat packet
HEARTDTN	Query/Set serial port N user's heartbeat packet data, only support ASCII
HEARTTMN	Query/Set serial port N heartbeat packet interval time

PDTIME	Query production time
MID	Query/Set module name
RFCENN	Query/Set RFC2217 function enable/ disable
SOCKSLN	Query/Set short connection enable/disable
SHORTON	Query/Set short connection time
RSTIM	Query/Set timeout restart time
UARTCLBUF	Query/Set Clear UART cache before module connection enable/disable
SOCKTONN	Query/Set serial port N Timeout Reconnect time
MODTCPN	Query/Set serial port N 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 enable/disable
UDPONN	Query/Set port N UDP Not Check Remote PORT function enable/disable
CFGTF	Set Save the current parameters as user default parameters
PINGN	Set ping the target IP address
HEARTUSERN	Query/Set serial port N user's heartbeat packet data, support ASCII and HEX
REGUSERN	Query/Set serial port N User's identity packet data, support ASCII and HEX
WEBPOINT	Query/sets the direction of the Websocket

Note: USR-N580 has 8 serial ports, so n=1,2,3,4,5,6,7,

4. AT command details

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

4.1. AT+E

Parameter	Description	Default Value	Range
<Status>	Echo of AT command	ON	ON: Enable the echo
			OFF: Disable the echo
Format			
Query	AT+E<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+E=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.2. AT+Z

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

4.3. AT+VER

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

4.4. AT+ENTM

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

4.5. AT+MAC

Parameter	Description
<MAC>	MAC address of the module.
Format	
Query	AT+MAC<CR>
Return	<CR><LF>+OK=<MAC><CR><LF>

4.6. AT+RELD

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

4.7. AT+WANN

Parameter	Description	Default Value	Range
<Mode>	Method of 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 address	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>		

4.8. AT+DNS

Parameter	Description	Default Value	Range
<Address>	DNS server address	192.168.0.1	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>		

4.9. AT+WEBU

Parameter	Description	Default Value	Range
<Username>	Username of module	admin	Up to 16 bytes, not null
<Password>	Password of module	admin	Up to 16 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>		

4.10. AT+WEBPORT

Parameter	Description	Default Value	Range
<Port>	Port of web server	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>		

4.11. AT+SEARCH

Parameter	Description	Default Value	Range
<Port>	UDP Port for searching	48899	1~65535
<Keyword>	Search 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>		

4.12. AT+PLANG

Parameter	Description	Default Value	Range
<Language>	Language of web server	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>		

4.13. AT+UARTN

➤ N: Serial port number.

Parameter	Description	Default Value	Range
<Baudrate>	Baudrate	115200	600~921600
<Data bits>	Data bits	8	7,8
<Stop bits>	Stop bits	1	1,2
<Parity>	Parity	NONE	NONE,EVEN,ODD
<Flow Control>	Flow Control	NFC	NFC: No flow control FCR: Software flow control(Xon/Xoff)
Format			
Query	AT+UARTN<CR>		
Return	<CR><LF>+OK=<Baudrate>,<Data bits>,<Stop bits>,<Parity><Flow Control><CR><LF>		
Set	AT+UARTN=<Baudrate>,<Data bits>,<Stop bits>,<Parity><Flow Control><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.14. AT+UARTTLN

- N: Serial port number.

Parameter	Description	Default Value	Range
<Time>	Serial port packaging time	0	0~255 ms
<Length>	Serial port packaging 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>		

4.15. AT+SOCKMN

- M: Socket number, A or B. N: Serial port number, 1~8.

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=1~8	1~65535
		port=23/26/29/ 32/35/38/ 41/44	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>		

4.16. AT+SOCKLKMN

➤ M: Socket number, A or B. N: Serial port number, 1~8.

Parameter	Description	Default Value	Range	Description
<Status>	Status of socket M of serial port N	IDLE	IDLE	Module is booting or disable Keep-alive
			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+SOCKLKMN<CR>			
Return	<CR><LF>+OK=<Status><CR><LF>			

4.17. AT+WEBSOCKET1

Parameter	Description	Default Value	Range
<Port>	Port of websocket	6432	1~65535
Format			
Query	AT+WEBSOCKET1<CR>		
Return	<CR><LF>+OK=<Port><CR><LF>		
Set	AT+WEBSOCKET1=<Port><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.18. AT+REGENN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Status>	Status of identity packet	OFF	OFF: Disable the identity packet
			MAC: Use MAC address as identity packet
			CLOUD: Using USR Cloud ID as Identity packet
			USR: Use the user's 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>

4.19. AT+REGTCPN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Method>	Method of Sending identity packet	First	First: Send Identity packet before first packet after the connected
			Every: Send Identity packet in every packet.
			ALL: Sending identity packet with 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>

4.20. AT+REGUSRN

➤ N: Serial port number, 1~8.

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

4.21. AT+REGCLOUDN

➤ N: Serial port number, 1~8.

Parameter	Description	Range
<ID>	ID of USR Cloud	Length: 20 bytes
<Password>	Password of USR Cloud	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>	

4.22. AT+HTPTPN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Method>	HTTP method	GET	GET: HTTP GET
			POST: HTTP POST
Format			
Query	AT+HTPTPN<CR>		
Return	<CR><LF>+OK=<Method><CR><LF>		
Set	AT+HTPTPN=<Method><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.23. AT+HTPURLN

- N: Serial port number, 1~8.

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>		

4.24. AT+HTPHEADN

- N: Serial port number, 1~8.

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>		

4.25. AT+HTPCHDN

- N: Serial port number, 1~8.

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>		

4.26. AT+HEARTENN

- N: Serial port number, 1~8.

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>		

4.27. AT+HEARTTPN

- N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Type>	Type of heartbeat packet	NONE	NONE: Disable the heartbeat packet
			NET: Send heartbeat packet to network
			COM: Send heartbeat to serial port
Format			
Query	AT+HEARTTPN<CR>		
Return	<CR><LF>+OK=<Type><CR><LF>		
Set	AT+HEARTTPN=<Type><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.28. AT+HEARTDTN

- N: Serial port number, 1~8.

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

4.29. AT+HEARTTMN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<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>		

4.30. AT+PDTIME

Parameter	Description
<Time>	Module production time.
Format	
Query	AT+PDTIME<CR>
Return	<CR><LF>+OK=<time><CR><LF>

4.31. AT+MID

Parameter	Description
<name>	Module name.
Format	
Query	AT+MID<CR>
Return	<CR><LF>+OK=<name><CR><LF>
Set	AT+MID=<name><CR>
Return	<CR><LF>+OK<CR><LF>

4.32. AT+RFCENN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Status>	Status of RFC2217 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>		

4.33. AT+SOCKSLN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Status>	Status of short 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>		

4.34. AT+SHORTON

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Time>	Short 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>		

4.35. AT+RSTIM

Parameter	Description	Default Value	Range
<Time>	Time of Timeout Restart	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>		

4.36. AT+UARTCLBUF

Parameter	Description	Default Value	Range
<Status>	Whether clear serial port cache before module 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>		

4.37. AT+SOCKTONN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Time>	Timeout Reconnect Time	86400s	0,1-99999s
Format			
Query	AT+SOCKTONN<CR>		
Return	<CR><LF>+OK=<Time><CR><LF>		
Set	AT+SOCKTONN=<Time><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.38. AT+MODTCPN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Status>	Status of serial port N 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>		

4.39. AT+MODPOLLN

➤ N: Serial port number, 1~8.

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>		

4.40. AT+MODTON

➤ N: Serial port number, 1~8.

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>		

4.41. AT+NETPRN

➤ N: Serial port number, 1~8.

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>		

4.42. AT+UDPONN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Status>	Status of serial port N UDP Not Check Remote PORT	OFF	ON/OFF
Format			
Query	AT+UDPONN<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+UDPONN=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.43. AT+CFGTF

Parameter	Description
<status>	Save currently parameter settings to defaults settings.
Format	
Set	AT+CFGTF<CR>
Return	<CR><LF>+OK=<time><CR><LF>

4.44. AT+PINGN

Parameter	Description
<IP>	IP address/domain name(up to 30 bytes) that need to ping.
Format	
Set	AT+PINGN<CR>
Return	<CR><LF>+OK<CR><LF>

4.45. AT+HEARTUSERN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Data>	Heartbeat packet data of port N	www.usr.cn	Up to 40 bytes of ASCII and HEX
<Type>	ASCII or HEX		
Format			
Query	AT+HEARTUSERN<CR>		
Return	<CR><LF>+OK=<Data,type><CR><LF>		
Set	AT+HEARTUSERN=<Data,type><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.46. AT+REGUSERN

➤ N: Serial port number, 1~8.

Parameter	Description	Default Value	Range
<Data>	User's identity packet data of port N	www.usr.cn	Up to 40 bytes of ASCII and HEX
<Type>	ASCII or HEX		
Format			
Query	AT+REGUSERN<CR>		
Return	<CR><LF>+OK=<Data><CR><LF>		
Set	AT+REGUSERN=<Data><CR>		
Return	<CR><LF>+OK<CR><LF>		

4.47. AT+WEBPOINT

Parameter	Description	Default Value	Range
<Status>	Status of serial port N websocket direction	OFF	OFF/UAR TN/LOG
Format			
Query	AT+WEBPOINT<CR>		
Return	<CR><LF>+OK=<Status><CR><LF>		
Set	AT+WEBPOINT=<Status><CR>		
Return	<CR><LF>+OK<CR><LF>		

5. Contact

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