

ATC-1000WF set work as station mode by command

1. Input '+++', When outputting 'a' character, immediately input 'a' character to enter the command mode.

```
aaaaaa+ok
```

2. Input 'AT+H' for help.

```
AT+H
+ok=
AT+: NoNE command, reply "+ok".
AT+E: Echo ON/Off, to turn on/off command line echo function.
AT+ENTM: Goto Through MOde.
AT+NETP: Set/Get the Net Protocol Parameters.
AT+UART: Set/Get the UART Parameters.
AT+UARTF: Enable/disable UART AutoFrame function.
AT+UARTFT: Set/Get time of UART AutoFrame.
AT+UARTFL: Set/Get frame length of UART AutoFrame.
AT+TMODE: Set/Get the Data Transfor Mode (Through or Agreement)
AT+WMODE: Set/Get the WIFI Operation Mode (AP or STA)
AT+WTPWR: Set/Get the WIFI TX Power
AT+WSKEY: Set/Get the Security Parameters of WIFI STA Mode.
AT+WSSSID: Set/Get the AP's SSID of WIFI STA Mode.
AT+WSLK: Get Link Status of the Module (Only for STA Mode).
AT+WSLQ: Get Link Quality of the Module (Only for STA Mode).
AT+WEBU: Set/Get the Login Parameters of WEB page.
AT+WAP: Set/Get the Parameters of WIFI AP Mode.
AT+WAKEY: Set/Get the Security Parameters of WIFI AP Mode.
AT+MSLP: Set The Module to Sleep or out of Sleep, Or Get the Sleep Status

AT+WSCAN: Get The AP site Survey (only for STA Mode)
AT+TCPK: Get The state of TCP link
AT+TCPDIS: Connect/Dis-connect the TCP Client link
AT+TCPTO: Set/Get TCP time out
AT+MAXSK: Set/Get MAX num of TCP socket (1~32)
AT+WANN: Set/Get The WAN setting if in STA mode
AT+LANN: Set/Get The LAN setting if in AP mode
AT+DHCPGW: Set/Get The DHCP default Gateway in AP mode
AT+LANGW: Set/Get The LAN default Gateway in STA mode
AT+EPHY: Enable/disable the ETH port
AT+EPTP: Enable ETH port, and set to PHY-to-PHY mode(without transformer)
AT+RELD: Reload the default setting and reboot
AT+PING: Ping ...
AT+Z: Reset the Module
AT+MID: Get The Module ID, eg. A11-yyymmddxxxx (yy:year, mm:month, dd:day,xxxx
:serial num)
AT+VER: Get application version
AT+DOMAIN: Get/Set Module Domain in AP or AP+STA Mode
AT+DHCPDEN: Enable and Disable DHCPD.
AT+HIDESSID: Enable and Disable Hide Ap ssid.
AT+H: Help
```

For example:

If we need to join the wireless network, we need to perform the following operations:

Wireless network SSID: **H3C**, Password: **Szadc803803@@@###**

Encryption method: **WPAPSK**

The first step is to switch the wireless working mode to Station

AT+WMODE

- Function: Set/Query WIFI work mode;
- Format:
 - ◆ Query Operation AT+WMODE<CR> +ok=<mode><CR>< LF ><CR>< LF >
 - ◆ Set Operation AT+ WMODE=<mode><CR> +ok<CR>< LF ><CR>< LF >
- Parameters:
 - ◆ mode:WIFI work mode
 - AP
 - STA

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AT+WMODE=STA<CR>

```
AT+WMODE=STA
+ok
```

```
AT+WMODE
+ok=STA
```

After ATC-1000WF module boots up again, the setting will be effective.

The second step is to set the encryption method of the wireless network

Set Operation

AT+WSKEY=< auth, encry, key><CR>

■ Parameters:

◆ auth: Authentication mode

OPEN

SHARED

WPAPSK

◆ encry: Encryption algorithm

NONE: When “auth=OPEN” , effective

WEP: When “auth=OPEN” or “SHARED” , effective

TKIP: When ” auth= WPAPSK” , effective

AES: When “auth= WPAPSK” , effective

◆ key: password, ASCII code, shall less than 64 bit and greater than 8bit

This Instruction only effective for ATC-1000WF works as STA. After ATC-1000WF module boots up again, the setting will be effective. But user can set this command when module configured as AP.

```
AT+WSKEY=WPAPSK,AES,Szatic803803@@@###
+ok
```

```
AT+WSKEY
+ok=WPAPSK,AES,Szatic803803@@@###
```

Query Operation

AT+WSKEY<CR>

Set the SSID parameters of the wireless network

AT+WSSSID

■ Function: Set/Query WIFI target AP SSID parameters as STA.

■ Format:

◆ Query Operation AT+WSSSID<CR> +ok=<ap's ssid><CR>< LF ><CR>< LF >

◆ Set Operation AT+ WSSSID=<ap's ssid ><CR> +ok<CR>< LF ><CR>< LF >

■ Parameters:

◆ ap's ssid: AP's SSID

This Instruction only effective for ATC-1000WF works as STA. After ATC-1000WF module boots up again, the setting will be effective. But user can set this command when module configured as AP.

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AT+WSSSID=H3C

```
AT+WSSSID=H3C
+ok
```

```
AT+WSSSID
+ok=H3C
```

Query the current module IP address

AT+ WANN

- Function: Set/Query WAN setting, only effective as STA mode;
- Format:
 - ◆ Query Operation AT+WANN<CR> +ok=<mode,address,mask,gateway><CR>< LF ><CR>< LF >
 - ◆ Set Operation AT+ WANN=< mode,address,mask,gateway ><CR> +ok<CR>< LF ><CR>< LF >
- Parameters:
 - ◆ mode: IP setting for WAN port
 - static: Static IP
 - DHCP: Dynamic IP
 - ◆ address: WAN port IP address;
 - ◆ mask: WAN port subnet mask;
 - ◆ gateway: WAN port gateway address;

This Instruction only effective for ATC-1000WF works as STA. After ATC-1000WF module boots up again, the setting will be effective. But user can set this command when module configured as AP.

```
AT+WANN
+ok=STATIC,192.168.1.168,255.255.255.0,192.168.1.1
```

