AT编译

```
加上 CONSOLE=off ATCMD=on
```

AT: 测试AT指令

命令:

```
AT
```

响应

```
+OK
```

AT+ECHO: AT回显使能/关闭

命令:

```
AT+ECHO=1
```

响应

```
+OK
```

AT+SLPLVL: 获取/设置系统SLEEP级别

命令:

```
AT+SLPLVL=?
```

响应

```
1
+OK
```

命令：值含义参考 POWER_MODE_LEVEL_T

```
AT+SLPLVL=2
```

响应

```
+OK
```

AT+USRWUSRC: 设置唤醒源

命令：值含义参考 WAKEUP_SOURCE_T

```
AT+USRWUSRC=2
```

响应

```
+OK
```

AT+USRSLP: 用户设置休眠

命令：###

```
AT+USRSLP
```

响应

```
+OK
```

AT+WSCAN: Wi-Fi搜索指定vif（一般使用0）

命令：

```
AT+WSCAN=0
```

响应

```
AT+WSCAN=0
vif_name AIC_CC69
_scanu_start:0,0,0
_scanu_confirm:0,0,0
Got 16 scan results
(-30 dBm) CH=  1 BSSID=04:d5:c4:07:f8:a8 SSID=ASUS-1
(-34 dBm) CH=  1 BSSID=28:80:78:46:5e:9c SSID=BB_24G
(-45 dBm) CH=  1 BSSID=fc:01:7c:9c:d2:37 SSID=T-1
(-36 dBm) CH=  4 BSSID=0c:83:9a:f3:c7:dc SSID=
(-39 dBm) CH=  4 BSSID=0c:83:9a:f3:cb:d8 SSID=TP-2
(-52 dBm) CH=  6 BSSID=f4:83:cd:aa:98:25 SSID=OFFICE-4G
(-39 dBm) CH=  4 BSSID=0c:89:9a:f3:c7:dd SSID=
(-41 dBm) CH=  6 BSSID=c8:f4:e6:05:7a:74 SSID=Meetingroom
(-31 dBm) CH=  6 BSSID=bc:57:fc:41:1f:db SSID=MERCURY-1
(-52 dBm) CH=  6 BSSID=7c:a1:67:c3:61:c4 SSID=TP-3
(-53 dBm) CH=  8 BSSID=c8:ee:a6:5c:5f:63 SSID=API_5F6
(-56 dBm) CH= 11 BSSID=fc:d7:33:e7:d4:96 SSID=109
(-41 dBm) CH= 11 BSSID=2c:61:04:2f:f6:28 SSID=360
(-40 dBm) CH= 11 BSSID=26:40:bb:a4:38:e1 SSID=DESKTOP-1
(-32 dBm) CH= 11 BSSID=2e:96:e5:7d:ce:59 SSID=glass
(-35 dBm) CH= 13 BSSID=d0:17:b4:41:d7:9c SSID=TP-1
+OK
```

AT+WMAC: 获取/设置MAC address

命令：获取当前MAC地址

```
AT+WMAC=?
```

响应

```
AT+WMAC=?
88:00:33:77:69:cc
+OK
```

命令：设置MAC地址为88:00:33:77:69::67

```
AT+WMAC=880033776967
```

响应

```
AT+WMAC=880033776967
Wifi sta info not written before（若之前没有在flash保存）
+OK
```

AT+WFIXIP: 使能/禁用固定IP地址(支持保存至flash，该命令只在sta未连接时有效)

命令：1表示使能FIXIP功能，后面分别为IP、子网掩码以及网关

```
AT+WFIXIP=1,192.168.1.100,255.255.255.0,192.168.1.1
```

响应

```
AT+WFIXIP=1,192.168.1.100,255.255.255.0,192.168.1.1
+OK
```

命令：0表示禁用FIXIP功能

```
AT+WFIXIP=0
```

响应

```
AT+WFIXIP=0
+OK
```

AT+RESTORE: 清除flash信息

命令

```
AT+RESTORE
```

响应

```
+OK
```

AT+HEAP: 显示heap信息

命令

```
AT+HEAP
```

响应

```
+OK
```

AT+TXPWR: 设置TX power（范围-10 ~ 22dBm）

命令

```
AT+TXPWR=0,22
```

响应

```
+OK
```

AT+WAPSTART: 启动softAP

命令: 0:2.4G/1:5G, SSID:AIC_24G, pwd:12345678

```
AT+WAPSTART=0,AIC_24G,12345678
```

响应

```
+OK
```

AT+WAPSTOP: 关闭softAP

命令

```
AT+WAPSTOP
```

响应

```
AT+WAPSTOP
WPA Stop AP 0
_ps_enable_cfm:800000
_ps_upm_enter:0,94
wpa_supplicant_main end
WPA enter FHOST_WPA_STATE_STOPPED
+OK
```

AT+WAPDHCPS: 设置DHCPS参数

命令:1:使能，2：lease time（小时），10：dhcps start，20：dhcps end

```
AT+WAPDHCPS=1,2,10,20
```

响应

```
+OK
```

命令:0:关闭

```
AT+WAPDHCPS=0
```

响应

```
+OK
```

AT+WSTACNCT: STA连接指定路由器

命令:1:存flash，ssi，pwd

```
AT+WSTACNCT=1,Xiaomi_66D0,12345678
```

响应

```
Connect Wi-Fi: _ASUS_A8, 1qaz2wsx
vif_name AIC_CC69
WPA task started for interface {FVIF-0}
WPA network 0: created and configured
_scanu_start:1,0,0
_scanu_confirm:1,0,0
_scanu_start:1,0,0
_scanu_confirm:1,0,0
_ps_disable_cfm:800000
_sm_auth_send
_tx cfm:5,80800000
_auth_handler:0
```

```
_sm_assoc_req_send
_tx cfm:7,80800000
_assoc_rsp_handler:0
_vif state active:1,2,0,0
_ps_upm_enter:0,94
_connect:1,0,aid=0
_handle addba_req:tid=0
_add ptk:1
_add gtk:1
WPA enter FHOST_WPA_STATE_CONNECTED
_ps_enable_cfm:800000
WPA network 0: connected
Wifi sta info not written before
_handle addba_rsp:tid=0, idx=5
DHCP completed: ip=192.168.50.107 gw=192.168.50.1
+OK
```

AT+WSDISCNCT: STA断开连接

命令:

```
AT+WSDISCNCT
```

响应

```
_disconnct:1,3
_delete reources
_vif state inactive:0,1
_ps_upm_exit
Disconnect d404:7c4:a8f8
WPA network 0: disconnected
wpa_supplicant_main end
WPA enter FHOST_WPA_STATE_STOPPED
+OK
```

AT+WSETNAME: 设置STA在host内显示的名称,需要在connect之后使用

命令:

```
AT+WSETNAME=aic_test
```

响应

```
+OK
```

AT+WSMRTCONF: 启动smartconfig配网

命令:

```
AT+WSMRTCONF
```

响应

```
+OK
_scanu_confirm:0,0,0
Scan result 6
State: Channel found
State: Unhidden SSID/password found
vif_name AIC_E569
 fhost_smart_get_ssid_pswd, 2412
_scanu_start:2,0,0
_scanu_confirm:2,0,0
_scanu_start:2,0,0
_scanu_confirm:2,0,0
SSID(_ASUS_A8), BSSID:(04:d4:c4:07:f8:a8)
Password:1qaz2wsx
State: Smartconfig Done.
State: Smartconfig connect
WPA task started for interface {FVIF-0}
WPA network 0: created and configured
_scanu_start:2,0,0
_scanu_confirm:2,0,0
_scanu_start:2,1,0
_scanu_confirm:2,1,0
_ps_disable_cfm:800000
_sm_auth_send
_tx cfm:5,80800000
_auth_handler:0
_sm_assoc_req_send
_tx cfm:7,80800000
_assoc_rsp_handler:0
_vif state active:0,3,0,0
_ps_upm_enter:0,94
_connect:2,0,aid=0
_add ptk:0
_add gtk:2
WPA enter FHOST_WPA_STATE_CONNECTED
WPA network 0: connected
_ps_enable_cfm:800000
_curr=0, bss=4
_handle addba_req:tid=0
_handle addba_req:tid=0
Wifi sta info not written before
DHCP completed: ip=192.168.50.132 gw=192.168.50.1
State: Smartconfig over
```

AT+WSSTOPSC: 关闭smartconfig配网

命令:

```
AT+WSSTOPSC
```

响应

```
+OK
_disconnct:2,3
_delete reources
_vif state inactive:0,1
_ps_upm_exit
Disconnect d404:7c4:a8f8
wpa_supplicant_main end
WPA enter FHOST_WPA_STATE_STOPPED
```

AT+WPING: ping

命令: 目标ip，执行次数，发送时间间隔（单位s），包长（max1460），1：回显/0不回显###

```
AT+WPING=192.168.50.1,10,1,100,1
```

响应

```
ping_params 192.168.50.1 -d 10 -r 1 -s 100
Send ping ID 0
+OK
100 bytes from: 192.168.50.1: icmp_req=1 ttl=255 time=7019 us
100 bytes from: 192.168.50.1: icmp_req=2 ttl=255 time=1602 us
100 bytes from: 192.168.50.1: icmp_req=3 ttl=255 time=5890 us
100 bytes from: 192.168.50.1: icmp_req=4 ttl=255 time=1480 us
100 bytes from: 192.168.50.1: icmp_req=5 ttl=255 time=1449 us
100 bytes from: 192.168.50.1: icmp_req=6 ttl=255 time=1495 us
100 bytes from: 192.168.50.1: icmp_req=7 ttl=255 time=11627 us
100 bytes from: 192.168.50.1: icmp_req=8 ttl=255 time=2488 us
100 bytes from: 192.168.50.1: icmp_req=9 ttl=255 time=1480 us
100 bytes from: 192.168.50.1: icmp_req=10 ttl=255 time=2762 us
--- 192.168.50.1 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 3729 ms
1000 bytes transmitted, 1000 bytes received
```

AT+NDNS: DNS

命令:

```
AT+NDNS="www.baidu.com"
```

响应

```
  www.baidu.com <-> 110.242.68.4
+OK
```

AT+WSWPS: WPS

命令:

```
AT+WSWPS
```

响应

```
Wps_context 348
WPA task started for interface {FVIF-0}
_scanu_start:0,0,0
_scanu_confirm:0,0,0
...
_connect:0,0,aid=0
_curr=0, bss=4
_add ptk:1
_add gtk:0
WPA enter FHOST_WPA_STATE_CONNECTED
_ps_enable_cfm:800000
_handle addba_req:tid=0
Wifi sta info not written before
_handle addba_rsp:tid=0, idx=5
DHCP completed: ip=192.168.50.123 gw=192.168.50.1
+OK
```

AT+NCRECLNT: 创建TCP/UDP client

命令: 类型，目标IP，目标端口，本地端口

```
AT+NCRECLNT=UDP,192.168.50.100,4000,4002
```

响应

```
+OK
```

AT+NCRECLNT: 创建TCP/UDP client

命令: 类型，目标IP，目标端口，本地端口

```
AT+NCRECLNT=UDP,192.168.50.100,4000,4002
```

响应

```
+OK
```

AT+NSTOP: 断开TCP/UDP 连接

命令: 连接号(0~3)

```
AT+NSTOP=0
```

响应

```
+OK
```

AT+NSEND: 通过TCP/UDP 连接发送数据

命令: 连接号(0~3),数据长度

```
AT+NSEND=0,1460
```

响应

```
UDP send size 1460
+OK
```

AT+WMDNS:

命令:打开,host name,service name,port

```
AT+WMDNS=1,aicaic,_iot,8080
```

响应

```
+OK
```

AT+IPERF:

命令:iperf udp client(iperf -u -c 192.168.3.45 -t 99 -b 10M -i 1)

```
AT+WIPERF=U,C,192.168.3.45,99,10M,1
```

响应

```
+OK
------------------------------------------------------------
Client connecting to 192.168.3.45, UDP port 5001
Sending 1470 byte datagrams
------------------------------------------------------------
[ ID] Interval       Transfer     Bandwidth
[  0]  0.0- 1.0 sec  1.23 MByte  10.4 Mbits/sec
[  0]  1.0- 2.0 sec  1.23 MByte  10.4 Mbits/sec
...
Server report:
[ ID]  Interval      Transfer     Bandwidth       Jitter   Lost/Total Datagrams
[  0]  0.0-74.8 sec  91.8 MByte  10.3 Mbits/sec  0.277 ms   21125/86600 (24.4%)
```

命令:iperf udp server(iperf -u -s -i 1)

```
AT+WIPERF=U,S,1
```

响应

```
+OK
------------------------------------------------------------
Server listening on UDP port 5001
IP address : 192.168.3.77
------------------------------------------------------------
```

命令:iperf tcp server(iperf -s -i 1)

```
AT+WIPERF=T,S,1
```

响应

```
+OK
------------------------------------------------------------
Server listening on TCP port 5001
IP address : 192.168.3.77
------------------------------------------------------------
```

命令:iperf tcp client(iperf -c 192.168.3.45 -t 99 -i 1)

```
AT+WIPERF=T,C,192.168.3.45,99,1
```

响应

```
+OK
_handle addba_req:tid=7
[ ID] Interval       Transfer     Bandwidth
[  0]  0.0- 1.0 sec  4.41 MByte  36.9 Mbits/sec
[  0]  1.0- 2.0 sec  4.95 MByte  41.6 Mbits/sec
```

命令:iperf stop

```
AT+WIPERF=STOP
```

响应

```
+OK
```