

## 1.1 AT Command

In AT mode, you can configure the system parameters through the serial port AT instruction. Instruction format is as follows:

At+[command]=[value]\r

According to the different command, module will return a different return value.

For example : "at+remoteip=192.168.11.133\n" set remote ip address as 192.168.11.133.

For example: "at+remoteip=? \n" Inquiry remote ip address.

At command is as follows:

<b>ROperMode</b>	Setting the operation mode
<b>RstaWIFI</b>	Setting STA connection information
<b>RstaStatus</b>	Inquiry the status of STA
<b>RstaStatus2</b>	Inquiry the status of STA, more quickly than RstaStatus
<b>RapWIFI</b>	Setting AP information
<b>RapStatus</b>	Inquiry the information of the connected device
<b>RBrDhcpc</b>	Setting DHCP for LAN ip
<b>RBrCurIp</b>	Inquiry the IP Address, subnet mask and gateway information of BRIDGE
<b>RLANIp</b>	Setting fixed IP address of LAN (RBrDhcpc need to set to 0)
<b>Rdhcpd</b>	Setting dhcp server enable
<b>Rdhcpd_ip</b>	Setting dhcp server configuration
<b>RNoti</b>	enabling the sta connection status notifications
<b>RCommit</b>	Commit the configuration, save and apply

### 1.1.1 ROperMode

**Function:**

Setting the operation mode.

**Format:**

at+ ROperMode=<ROperMode> \r

**Parameter:**

**ROperMode:** operation mode

Operation mode

value	meaning
0	Bridge
1	Gateway
2	Ethernet Converter
3	AP Client

### 1.1.2 RstaWIFI

#### Function:

Setting status information of STA

#### Format:

at+RstaWIFI=<ssid>,<encrypt type>,<password>\r

#### Parameter:

ssid: network SSID

encrypt type:Encryption

Encryption

value	meaning
none	Open type network
wep_open	wep encrypt, open Authentication
wep	wep encrypt, encryption Authentication
wpa_tkip	wpa tkip
wpa_aes	wpa aes
wpa2_tkip	wpa2 tkip
wpa2_aes	wpa2 aes
wpawpa2_tkip	wpa/wpa2 tkip
wpawpa2_aes	wpa/wpa2 aes
auto	Auto

password: password

### 1.1.3 RstaStatus

#### Function:

Inquiry connection status of STA

#### format:

at+RstaStatus=?\r

**parameter:**

None

#### 1.1.4 RstaStatus2

**Function:**

Inquiry the connection status of STA. responds more quickly than RstaStatus, only return if STA is connect or not

**Format:**

at+RstaStatus2=?\r

**Parameter:**

None

#### 1.1.5 RapWiFi

**Function:**

Setting AP connection information

**Format:**

at+RapWiFi=<ssid>,<encrypt type>,<password>\r

**Parameter:**

ssid: network SSID

encrypt type: encryption

#### Encryption

Value	Meaning
none	open type network
wep_open	wep encrypt, open Authentication
wep	wep encrypt, encryption Authentication
wpa_tkip	wpa tkip
wpa_aes	wpa aes
wpa2_tkip	wpa2 tkip
wpa2_aes	wpa2 aes
wpawpa2_tkip	wpa/wpa2 tkip
wpawpa2_aes	wpa/wpa2 aes
auto	Auto

password: password

### 1.1.6 RapStatus

**Function:**

查询 AP 连接状态。

**format:**

at+RapStatus=?\r

**Parameter:**

None

### 1.1.7 RBrDhcpc

**Function:**

Bridge Dhcp client enable

**format:**

at+RBrDhcpc=<RBrDhcpc>\r

**Parameter:**

RBrDhcpc: Dhcp client enable.

Dhcp client enable

value	meaning
0	close
1	open

### 1.1.8 RLANIp

**function:**

Setting IP address of Bridge.when RbrDhcpcfunction start,this parameter is invalid

**Format:**

at+RLANIp=<ip>,<mask>\r

**Parameter:**

ip: ip address

mask: subnet mask

### 1.1.9 Rdhcpd

**Function:**

DHCP server enable.

**Format:**

At+Rdhcpd=<Rdhcpd>\r

**Parameter:**

Rdhcpd: Dhcp server enable

Dhcp server enable

Value	meaning
0	close
1	open

**1.1.10 Rdhcpd\_ip****Function:**

Dhcp server ip setting

**Format:**

At+Rdhcpd\_ip=<ip start>, <ip end>, <mask>, <gateway>\r

**Parameter:**

Ip start: ip start address

Ip end: ip end address

Mask: subnet mask

Gateway: Gateway

**1.1.11 RBrCurIp****Function:**

Inquiry the IP address, subnet mask and gateway information

**Format:**

At+RBrCurIp=?\r

**Parameter:**

None

**1.1.12 RNoti****Function:**

enabling the sta connection status notifications

**Format:**

At+RNoti=<RNoti>\r

**Parameter:**

**RNoti:** enabling the sta connection status notifications

Value	meaning
0	close
1	open

### 1.1.13 RCommit

**Function:**

Commit the configuration, save and apply

Note: All the AT command except the inquiry command need to use this parameter to commit for saving and applying. It needs 30s to finish this command

**Format:**

At+RCommit=<RCommit>\r

**Parameter:**

Commit network conf.

Value	meaning
0	Invalid
1	commit

## 2 At Command example

Config module:

*at+ROperMode=0*

*at+RstaWIFI=HI-LINK\_XXXX,wpa2\_aes, 12345678*

*at+RapWIFI=HI-LINK\_yyyy,wpa2\_aes,12345678*

*at+C2\_uart=115200,8,n,1*

*at+C2\_mode=2*

*at+C2\_remoteip=192.168.22.245*

*at+C2\_port=8080*

*at+C2\_protocol=1*

*at+C2\_uartpacklen=100*

*at+C2\_uartpacktimeout=100*

*at+C2\_uartpackintertimeout=100*

*at+C2\_TCPRealTime=1*

*at+RBrDhpc=1*

*at+RNoti=1*

*at+mode=none*

*at+Rdhcpd=0*

*at+RCommit=1*

inquiry config.:

*at+RstaStatus2=?*

*at+RBrCurIp=?*

*at+ver=?*

*at+remoteip=?*

*at+netmode=?*

*at+wifi\_conf=?*

*at+dhcpcd=?*

*at+dhcpcd\_ip=?*

*at+dhcpcd\_dns=?*

*at+dhcpcd\_time=?*

*at+dhcpc=?*

*at+net\_ip=?*

*at+net\_dns=?*

*at+net\_wanip=?*

*at+remoteip=?*

*at+remoteport=?*

*at+remoteport=?*

*at+timeout=?*

*at+mode=?*

*at+uart=?*

*at+uartpacklen=?*

*at+uartpacktimeout=?*

*at+ver=?*



*at+CLport=?*

*at+escap=?*

*at+tcp\_auto=?*

*at+Channel=?*

*at+S2N\_Stat=?*

*at+Get\_MAC=?*

*at+wifi\_ConState=?*

*at+COM2=?*

