HC-08 Bluetooth 4.0 module instruction ——2013.12.10
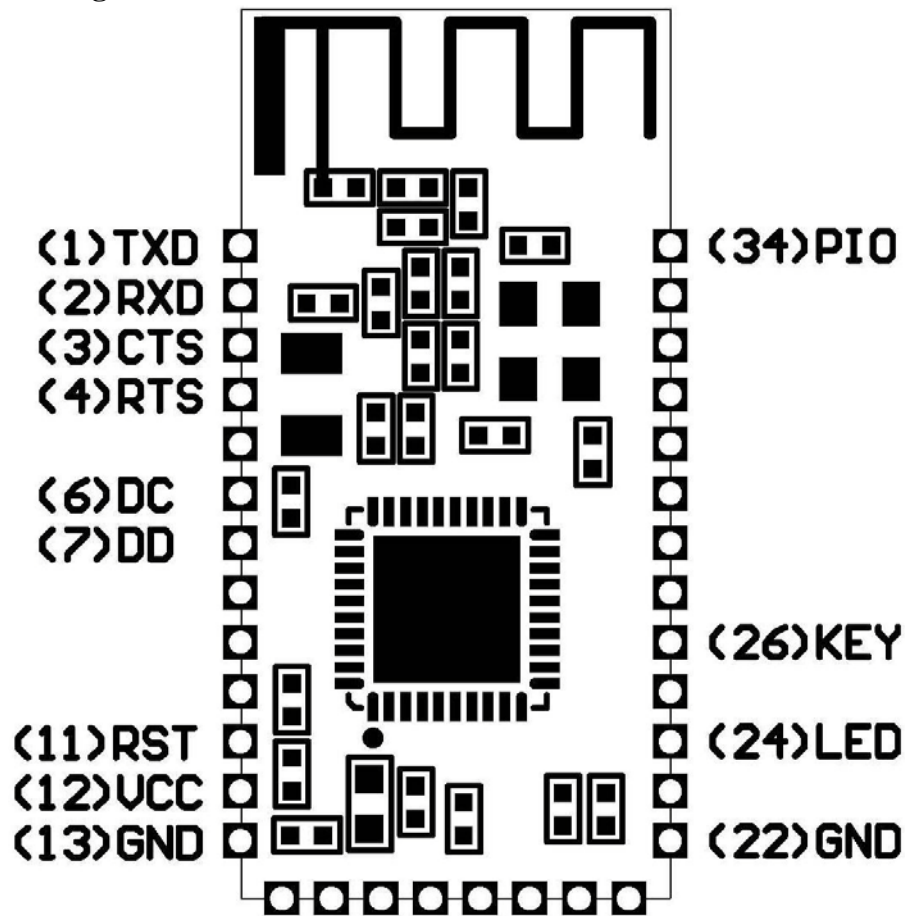
Pin Figure：

TXD: UART transmitter output, 3.3V TTL level.

RXD: UART receive input, 3.3V TTL level.

CTS: UART clear to send input, this function is currently not supported.

RTS: UART request to send output, this function is currently not supported.

DC: Debug Clock.

DD: Debug Data.

RST: Reset input, active low level, and reset time is not less than 5mS.

VCC: 3.3V power supply input, the supply current is not less than 100mA.

GND: Ground.

LED: LED high level output.

（1）Before Bluetooth connection

Condition		LED status
Master module	Unrecorded module slave address	Light 100ms per sec
	Recorded module slave address	Light 900ms per sec
Slaver module		Light 1sec per 2sec

（2）After Bluetooth connection, LED light constant.

KEY: Clear slaver address. CMOS input with weak internal pull-down. When the master module this pin connected to high level, will clear out the memorized slave module address.

PIO: Set master/slave mode. CMOS input with weak internal pull-up, default setting is slave mode. When this pin connected to low level, is master mode.

AT Command

(1)Dummy command
      Send: AT
      Return: OK

(2)Set UART baud rate
      Send: AT+BAUD1
      Return: OK1200

      …
      Send: AT+BAUD8
      Return: OK115200

    Support for eight kinds of baud rates of the following:
1--------- 1200
2--------- 2400
3--------- 4800
4--------- 9600（Default setting）
5--------- 19200
6--------- 38400
7--------- 57600
8--------- 115200

Note1: The setting effect after repower-on.
Note2: When communication, send the data packet must be have a time interval. When the UART baud rate is not more than 9600bps, the time interval is not less than the data packet time. When the UART baud rate is more than 9600bps, the time interval is longer.
    When the UART baud rate is not less than 19200bps, the data packet must be not more than 120 bytes.

(3)Set Bluetooth name
      Send: AT+NAMEname
      Return: OKsetname
      Parameter "name": Bluetooth name, 13 characters or less.
Note: The setting effect after repower-on.

Work current（3.3V power supply）

	Not Connected	Connected（Not send data）	Connected（send data）
Master module	20.2mA	8.9mA	9.3mA
Slave module	8.9mA	8.9mA	9.3mA

Operating voltage range: DC2.0V-3.6V