

# HC06 Bluetooth Module Manual

The Bluetooth module HC06 can only act as slave. Some basic configuration parameters can be changed by means of specific AT commands.

## 1 PIN DESCRIPTION

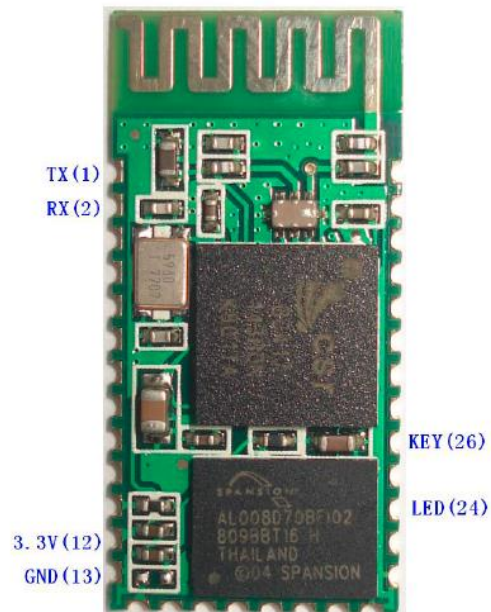
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TX and RX: UART data output and input.

**IMPORTANT: 3V3 logic level.**

LED: displays status of device: if blinking, it means the module is not paired to another Bluetooth device (configuration mode). If paired, the LED remains on.

KEY: not sure, but probably uselss for HC06.



## 2 AT COMMANDS

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The HC06 module can accept AT commands if it is not paired. **IMPORTANT:** it does not wait for a termination character. Instead, it reacts to whatever has received after 1 second.

Thus, manual entry configuration with a program like Windows Hyperterminal is not recommended. Terminal software that allows batch sending can be used instead.

HC06 UART default parameters:

Baudrate:	9600 bps
Data:	8 bits
Stop bits:	1
Parity:	None
Handshake:	None
Passkey:	1234
Device name:	depending on the provider

## 2.1 COMMANDS

COMMAND	RESPONSE	DESCRIPTION
AT	OK	Test connection
AT+BAUD<p>	OK<r>	Change baud rate
		<p> <r> (bps)
		1 1200
		2 2400
		3 4800
		4 9600
		5 19200
		6 38400
		7 57600
		8 115200
		9* 230400
		A 460800
		B 921600
		C 1382400
AT+NAME<name>	OK<name>	Change device name**
AT+PIN<xxxx>	OK<xxxx>	Change device passkey

\*Yellow marked baudrates are not supported by standard PC COM ports.

\*\*Names up to 20 characters. EXAMPLE:

Command sent: AT+NAMEcomillas

Response: OKcomillas

Device name changed to "comillas".

### 3 REFERENCES

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- [1] E. H. S. M. Ling Xin, «HC-06 Guangzhou HC Information Technology Co., Ltd., at [www.olimex.com](http://www.olimex.com),» 6 4 2011. [En línea].
- [2] e-Gizmo Mechatronix Central, «EGBT-046S/EGBT-045MS Bluetooth Module, at [cdn.instructables.com](http://cdn.instructables.com),» [En línea].
- [3] Guangzhou HC Information Technology Co., Ltd, «HC Serial Bluetooth Products User Instructional Manual, at [www.wavesen.com](http://www.wavesen.com),» 26 2 2016. [En línea].
- [4] E. Styger, «Using the HC-06 Bluetooth Module, at [cdn.instructables.com](http://cdn.instructables.com),» 19 June 2013. [En línea].