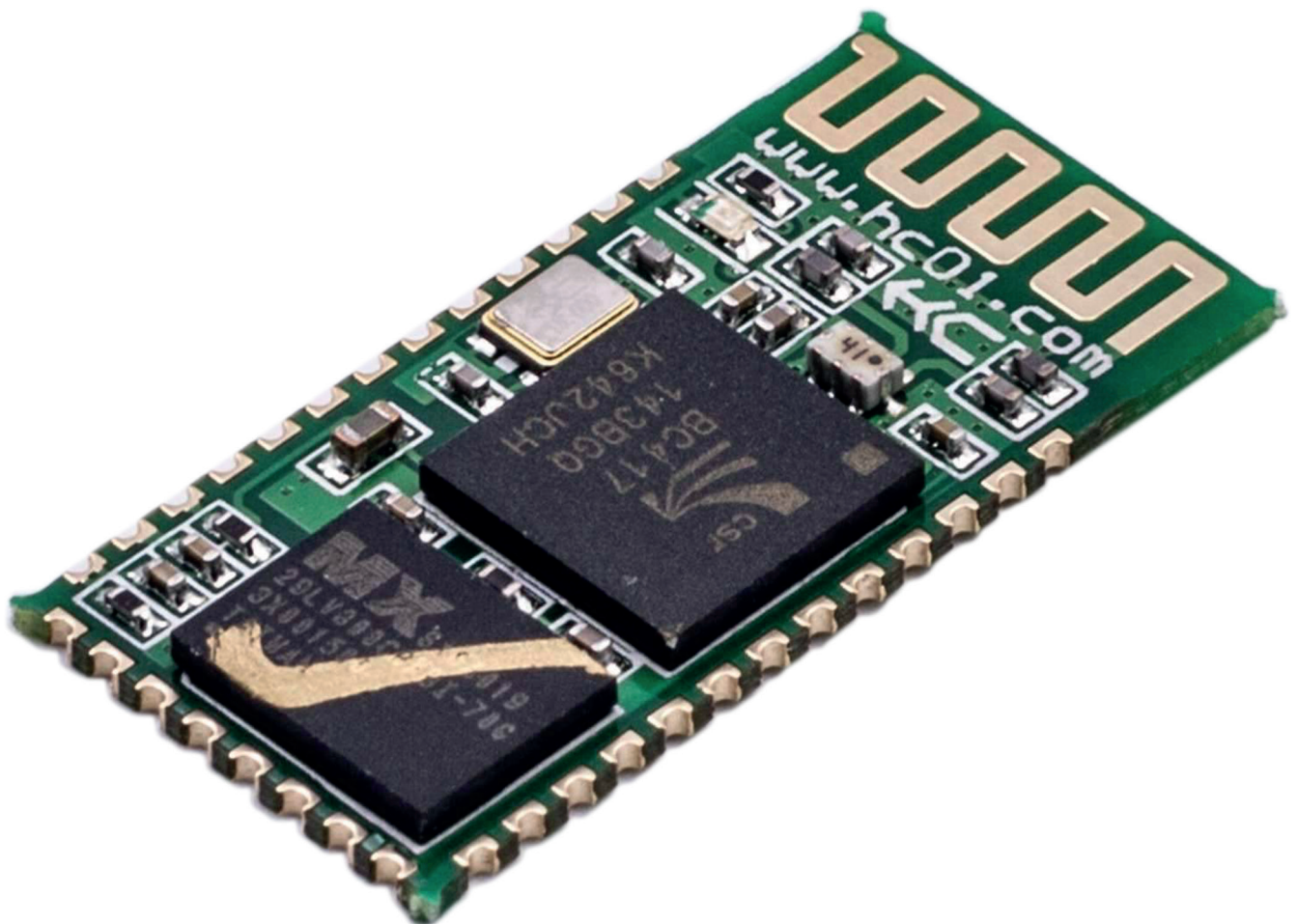# HC-05 Wireless Bluetooth Transceiver Modul für Arduino Datenblatt

HC-05 Embedded Bluetooth Serial Communication Module AT instruction set HC-05 embedded Bluetooth serial communication module (hereinafter referred to as module) has two working modes: command response work Mode and automatic connection work mode, the module can be divided into Master and Slave in automatic connection work mode. There are three kinds of job roles: Loopback. When the module is in automatic connection work mode, it will be automatically set The data transmission of the connection of the mode; can execute all the following AT commands when the module is in the command response working mode, the user can Various AT commands are sent to the module to set control parameters or issue control commands for the module. Through the control module external pins (PIO11) input level, can realize the dynamic conversion of the working state of the module.

The pin definition used by the serial module:
1. PIO8 is connected to the LED to indicate the working status of the module. After the module is powered on, it flashes. The blinking intervals of different statuses are different.
2. The PIO9 is connected to the LED to indicate that the module is connected successfully. After the Bluetooth serial port is successfully connected, the LED is on.
3, PIO11 module state switching pin, high level -> AT command response working state, low or floating -> Bluetooth regular workers For the state.
4, the module has a reset circuit, re-powered to complete the reset.

Steps to set as a master module:
1. PIO11 is set high.
2. After powering on, the module enters the AT command response status.
3. HyperTerminal or other serial port tools, set the baud rate 38400, 8 data bits, 1 stop bit, no parity bit, No flow control.
4. the serial port to send the characters "AT + ROLE = 1 \ r \ n", successfully returned to "OK \ r \ n", where \ r \ n carriage return.
5. PIO is set low, re-powered, the module is the main module, automatically search for the slave module, establish a connection.
Detailed instructions (The AT command is not case-sensitive. It ends with a carriage return, line feed character:\r\n)
1, test instructions: instruction response parameter AT OK no
2, module reset (restart): instruction response parameter AT+RESET OK no
3, get the software version number: instruction response parameter AT+VERSION? +VERSION:<Param> OK Param: software version number for example: At+version?\r \n +VERSION:2.0-20100601 OK

4, restore the default state: instruction response parameter AT+ORGL OK no Factory default state:

1. Equipment category: 0

2. Search code: 0x009e8b33

3. Module Job Role: SlaveMode

4. Connection Mode: Specify a dedicated Bluetooth device connection mode

5. Serial port parameters: baud rate - 38400bits/s; stop bit: 1 bit; parity bit: no

6. Pairing code: "1234"

7. Device Name: "HC-2010-06-01" ......

for HC05 or compatible module