

Wireless Serial Communication HC-06 Slave Module

HC-06 Wireless Bluetooth Module

Product Description

Industrial serial port bluetooth, Drop-in replacement for wired serial connections, transparent usage. You can use it simply for a serial port replacement to establish connection between MCU and GPS, PC to your embedded project and etc. Computer and peripheral devices

GPS receiver Industrial control MCU projects

Running in slave role: Pair with BT dongle and master module

Coupled Mode: Two modules will establish communication automatically when powered. PC

hosted mode: Pair the module with bluetooth dongle directly as virtual serial.

Specification:

Bluetooth protocol : Bluetooth Specification v2.0+EDR

Frequency : 2.4GHz ISM band

Modulation : GFSK(Gaussian Frequency Shift Keying)

Emission power : ≤ 4 dBm, Class 2

Sensitivity : ≤ -84 dBm at 0.1% BE

Speed : Asynchronous: 2.1Mbps(Max) / 160 kbps, Synchronous: 1Mbps/1Mbps

Security : Authentication and encryption

Profiles : Bluetooth serial port

CSR chip : Bluetooth v2.0

Wave band : 2.4GHz-2.8GHz, SM Band

Protocol : Bluetooth V2.0

Power Class : (+6dbm)

Reception sensitivity: -85dBm

Voltage : 3.3 (2.7V-4.2V)

Current : Paring - 35mA, Connected - 8mA

Temperature : -40~ +105 Degrees Celsius

User defined Baud rate : 4800, 9600, 19200, 38400, 57600, 115200,

230400,460800,921600 ,1382400.

Pin definition :

* PIO8 connects with LED cathode with 470ohm series resistor in between. LED NEGATIVE connects to ground. After powered on, flashing intervals differ in different states.

* PIO9 is used to control LED indicating paring. It will be steady on when paring is successful.

* PIO11, module state switching pin. HIGH -> response to AT command; LOW or floating -> regular work status.

* With build-in reset circuit, reset is completed automatically after powered on.

* Steps to set to MASTER:

* Set PIO11 HIGH with a 10K resistor in between.

* Power on, module comes into AT Command Response Status

* Open HyperTerminal or other serial tool, set the baud rate 38400, 8 data bits, 1 stop bit, no parity bit, no Flow Control

* Via serial port, send characters "AT + ROLE = 1 r n",if successful, return "OK r n", where r n is carriage return.

* Set PIO11 LOW, re-power, then in Master state, automatically search for slave module and connect.