PRODUCT Information

INTRODUCTION

Bluetooth module is a PCBA board with integrated Bluetooth function for short-range wireless communication is divided into Bluetooth data module and Bluetooth voice module by function.Bluetooth module refers to the set the basic circuit set of the chip with Bluetooth function,used for wireless network communication,can be roughly divided into.Three types: data transmission module,remote control module

PARAMETERS

Product Model: HC-05

Wokring frequency: 2.4G

Communication interface: UART 3.3V TTL level

Working voltage: 3.0~3.6V

RSS I support: Not supported

Communication level: 3.3V

Transmitting power: 4dBm

Reference disttance 10 meters

Air Speed: 2Mbps

Antenna interface: Built-in PCB antenna

Communication cable: 15mA

Receiving sensitivity: -85dBm @ 2Mbps

Working humidity: 10%-90%

Storage temperature: -40℃~+80℃

Working temperature: -25℃~+75℃

DESCRIPTION

PIN：

KEY,VCC,GND,RXD,TXD,STATE.STATE is the Bluetooth status pin,
Output low when not connected,high when connected KEY is the pin for the AT instruction, which has the same function as the key。

Button:

Pressing the key is equivalent to pulling the 34 pin high/low, and it is used with the AT command..(Most AT commands require it is effective to send by pressing the buttion.)

Voltage:

Input voltage: 3.2-6V,the power supply comes with anti-reverse connection, but the reverse connection does not work.

Status indication:

When the master does not record the slave address, it flashes quickly; when it records the slave address, it flashes showly.Slave is not connected time. After connection, both the master and the slave are blinking and stopped.

Interface:

The interface level is 3.2V~6V,which can be connected to various microcontrillers (Aduion, 51,AVR,PIC,ARM,MSP 4730,etc.), 5V microcontroller can be directly connected. Connect directly to the serial port of the microcontroller, cannot pass MAX 232 chip.

Communication instructions:

The effective distance in an open enviroment is 10 meters. It is also possible to exceed 10 meters, but the communication quality connot be guaranteed.

Way of communication:

After successful pairing, it can be used as a full-duplex serial port without having to know any Bluetooth protocol. silent recognize common communication formats:9600,1,N (AT command can set the stop bit to 2, odd or even check)

Set from host:

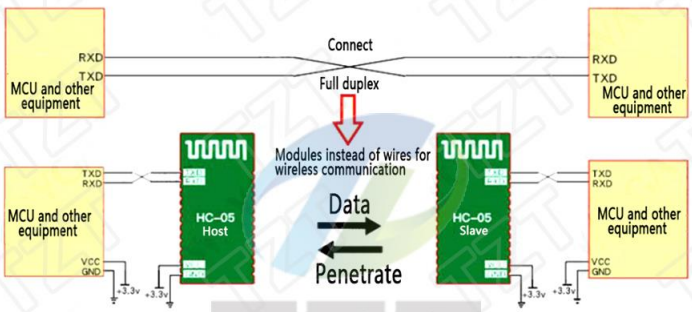
The module is a master-slave unit. The factory default is a slave, which can be switched to a master through AT commands.(AT + R LOE = 0/1/2, 0 is the slave, 1 is the master, and 2 is the loopback role. Set 34 high when setting (Or press a button on the module) eck)

Defaults:

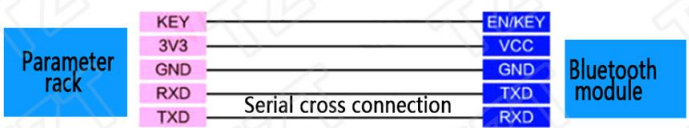
Slave, baud rate 9600, Bluetooth name HC-05, pairing password 1234, LED status light is on.

INSTRUCTIONS FOR USE

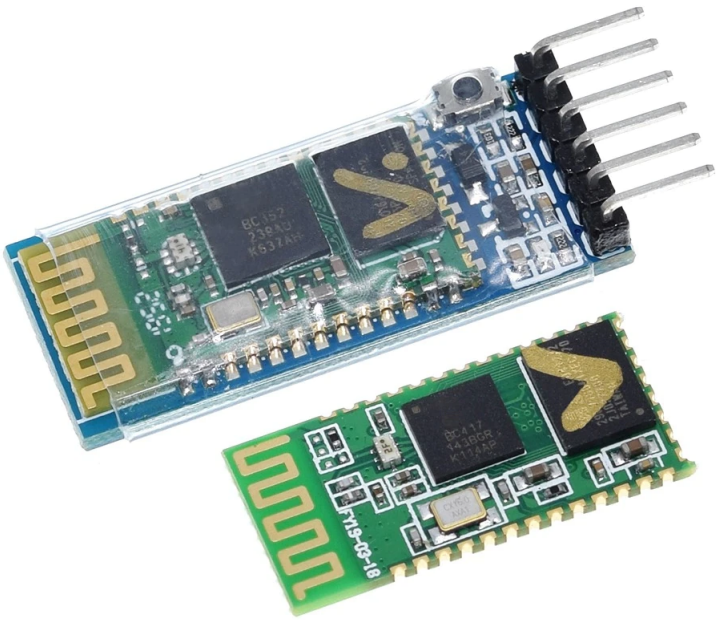
UART connection, module pairing is simple and convenient



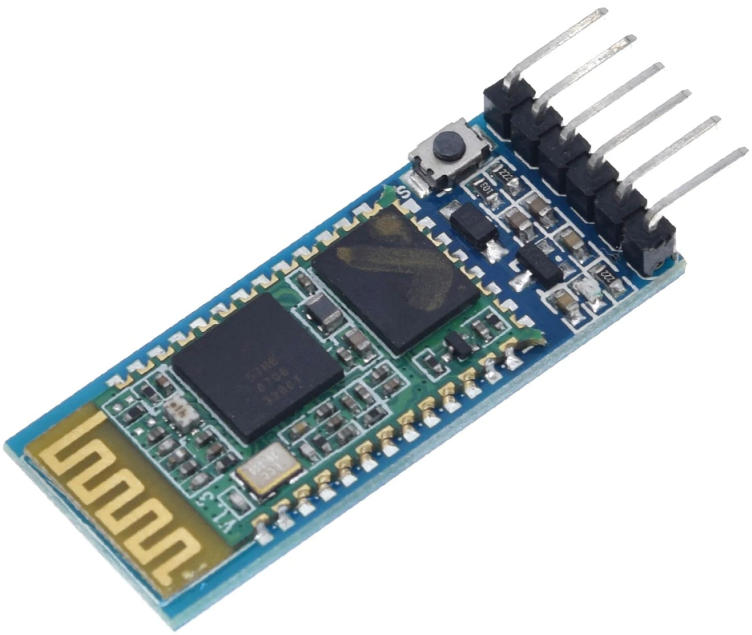
UART connection



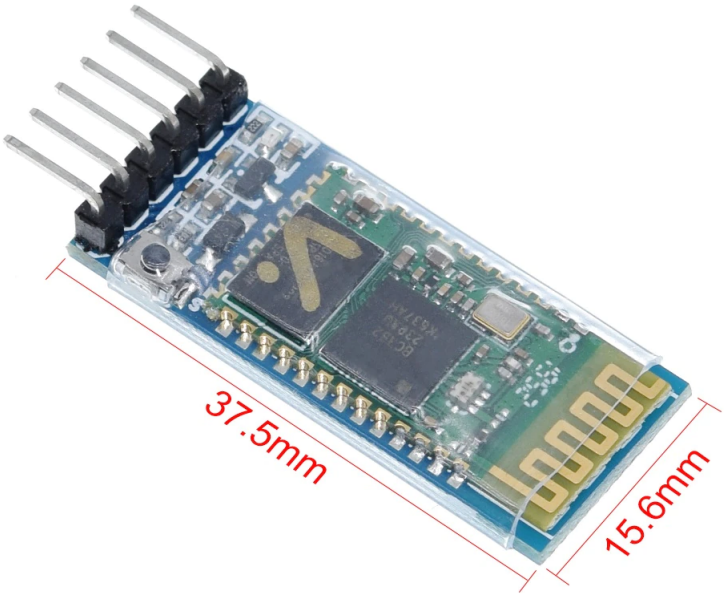
HC-05

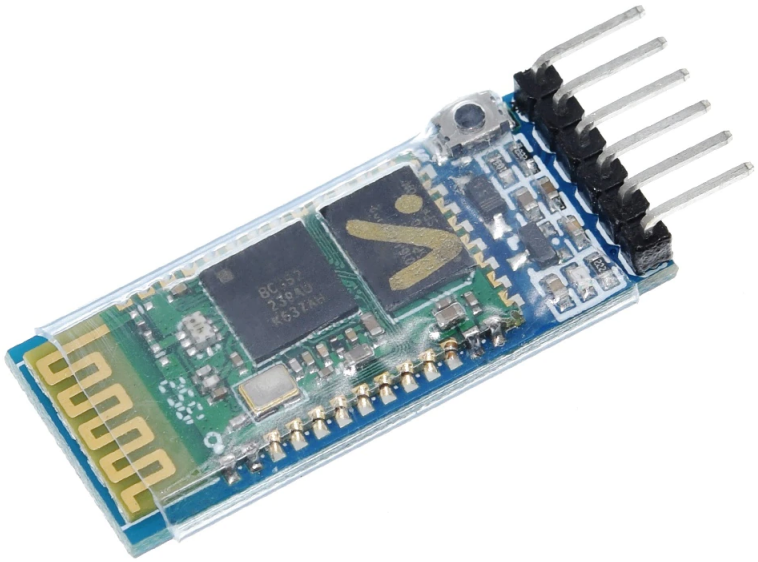


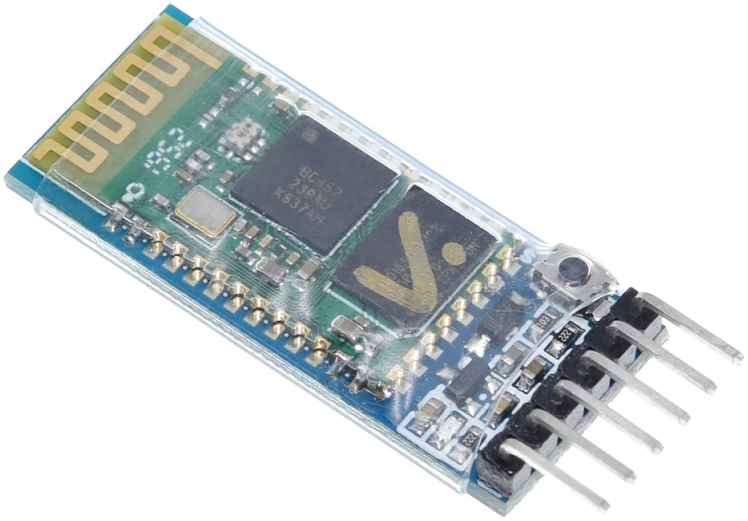
HC-05

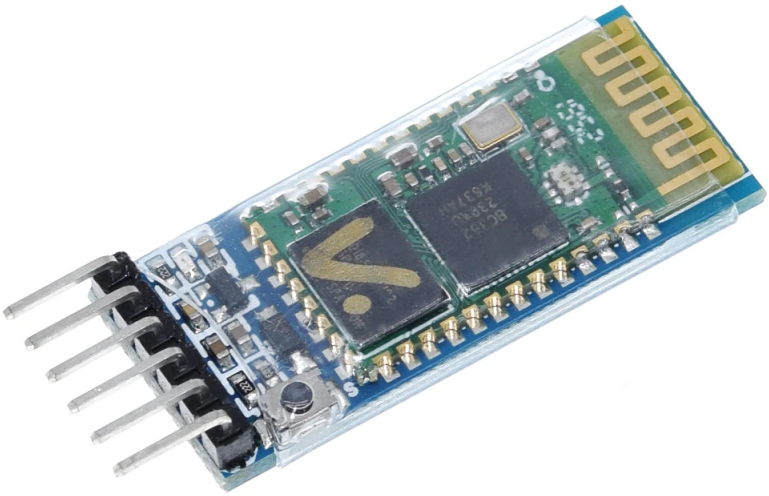


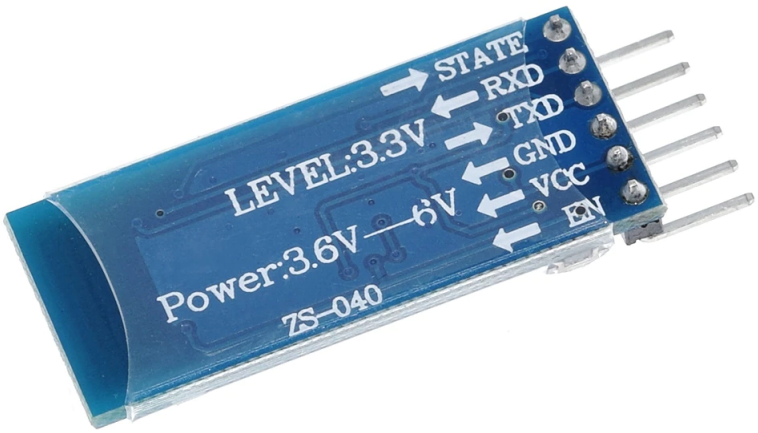
Weight : 3.85g



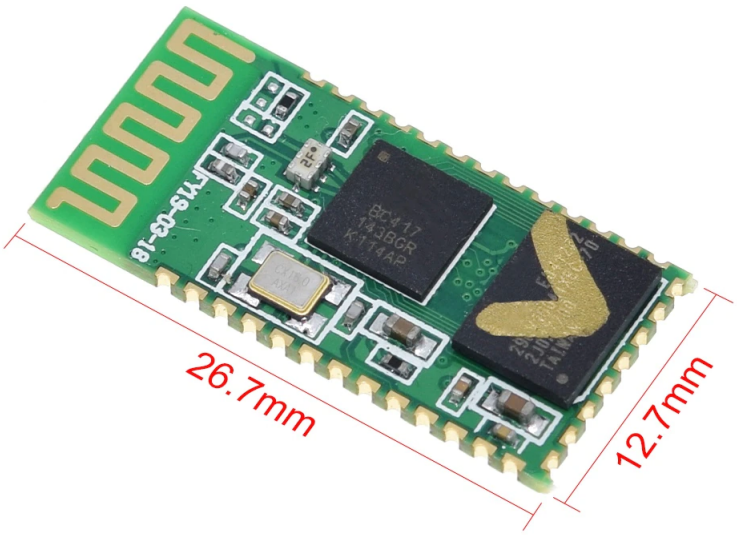


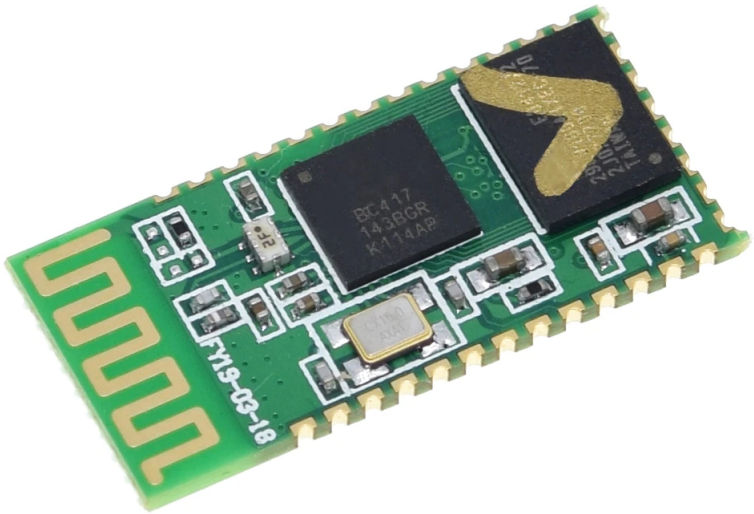


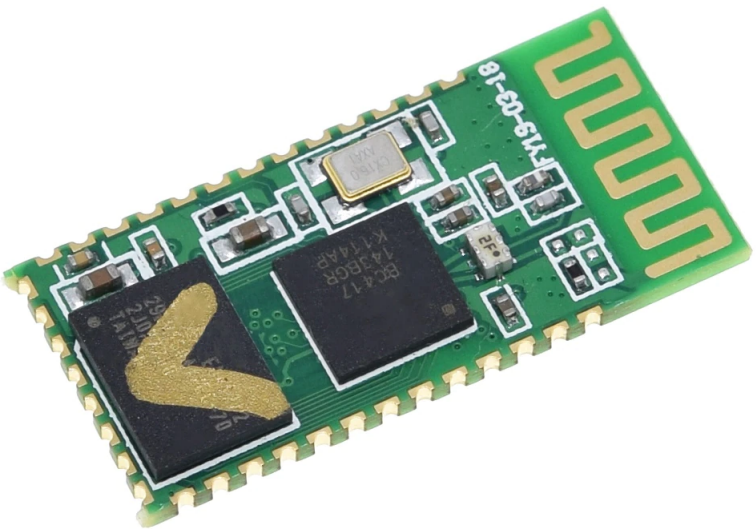



STATE
RXD
TXD
GND
VCC
EN
LEVEL:3.3V
Power:3.6V—6V
ZS-040

Weight : 1.05g


26.7mm
12.7mm


BC417
143BGR
K114AR
FMS-03-18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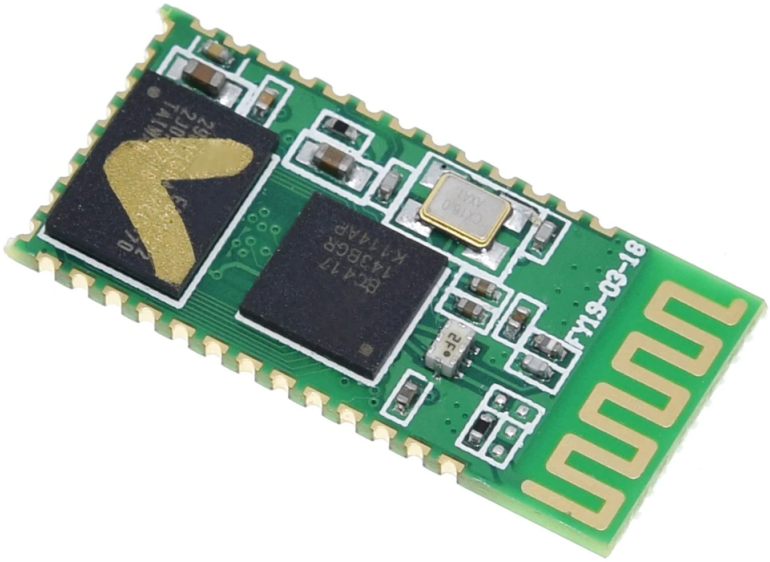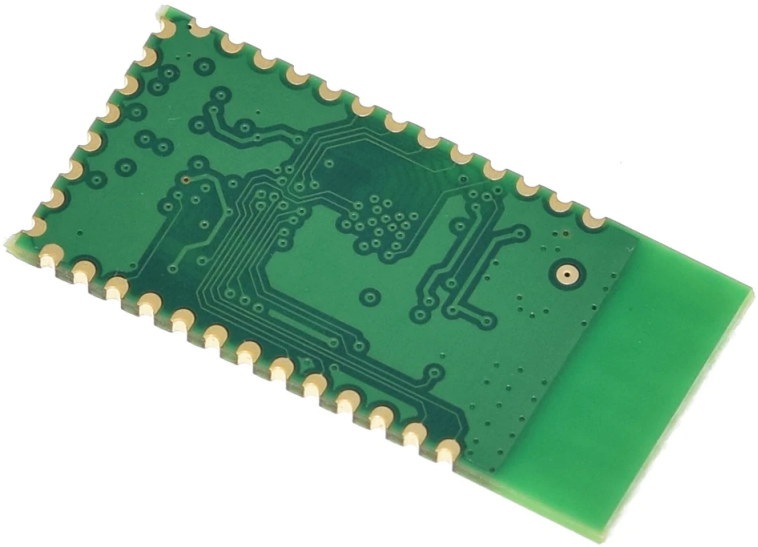
FYLS-03-18