

GOTRONIC HC06 Bluetooth Module User Manual

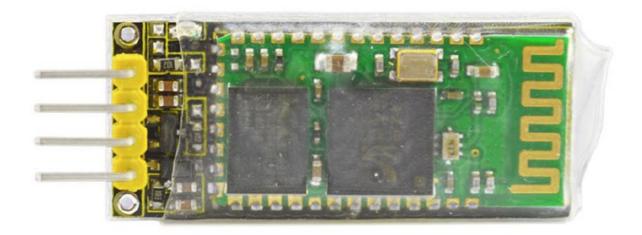
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GOTRONIC HC06 Bluetooth Module



Product Information

The Bluetooth Module operates on the 2.4GHz ISM frequency band with a Gauss frequency Shift Keying

modulation mode. It has a transmit power of 4dBm, second stage, and a sensitivity of -84dBm at 0.1% Bit Error Rate. The transmission speed is 2.1Mbps (Max)/160 kbps (Asynchronous), 1Mbps/1Mbps (Synchronous). The module has authentication and encryption safety features and supports a Bluetooth serial port (major and minor) configuration. It requires a supply voltage of 5 V DC 50mA and has an operating temperature range of -20 to 55.

Product Usage Instructions

- 1. Connect the Bluetooth module to the device according to the connection diagram provided in the user manual.
- 2. Upload the sample code provided in the user manual to the device using programming software.
- 3. Power on the device and ensure that it is within the operating temperature range.
- 4. Pair the device with a Bluetooth-enabled device by following the instructions provided in the user manual for the specific Bluetooth serial port configuration.
- 5. Once paired, use the Bluetooth-enabled device to send commands to the device through the Bluetooth module.
- 6. The sample code provided in the user manual allows for the control of an LED connected to pin 13 of the device through Bluetooth communication. Modify the code as necessary for specific usage needs.

Introduction

This Bluetooth module can easily achieve serial wireless data transmission. Its operating frequency is among the most popular 2.4GHz ISM frequency band (i.e. Industrial, scientific and medical).

It adopts Bluetooth 2.1+EDR standards. In Bluetooth 2.1, the signal transmit time of different devices stands at a 0.5 seconds interval, so that the workload of Bluetooth chip can be reduced substantially and more sleeping time can be saved for Bluetooth.

This module is set with a serial interface, which is easy to use and simplifies the overall design/development cycle.

Specification

• Bluetooth protocol: Bluetooth 2.1+ EDR standard

• USB protocol: USB v1.1/2.0

Operating frequency: 2.4GHz ISM frequency band
Modulation mode: Gauss frequency Shift Keying

Transmit power: ≤ 4dBm, second stage

• Sensitivity: ≤-84dBm at 0.1% Bit Error Rate

• Transmission speed: 2.1Mbps(Max)/160 kbps (Asynchronous) 1Mbps/1Mbps (Synchronous)

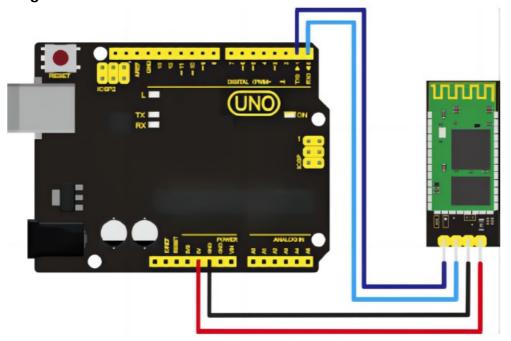
Safety feature: Authentication and encryption

• Supported configuration: Bluetooth serial port (major and minor)

• Supply Voltage: 5 V DC 50mA

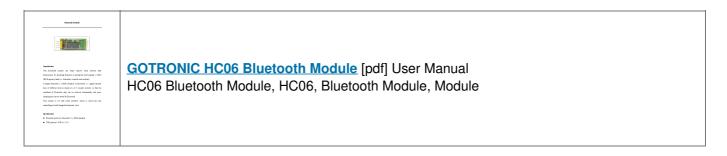
• Operating temperature: -20 to 55°C

Connection Diagram



Sample Code

Documents / Resources



Manuals+,