

BLUETOOTH MODULE HC-06

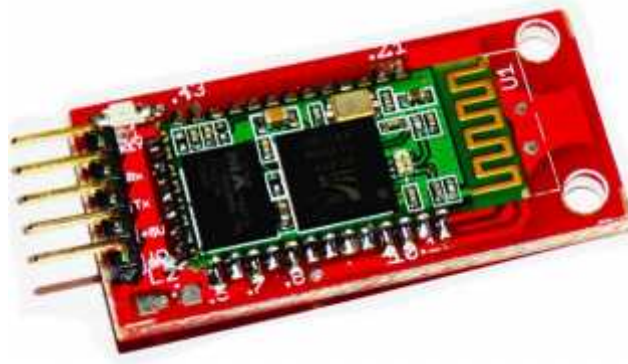
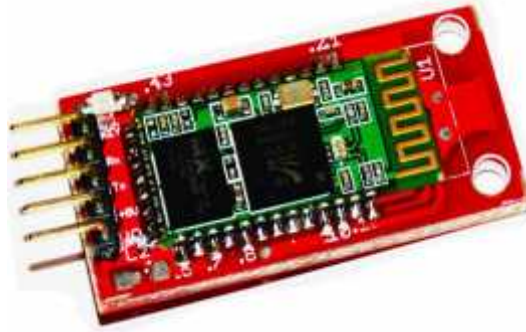


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OVERVIEW

BLUETOOTH MODULE HC-06

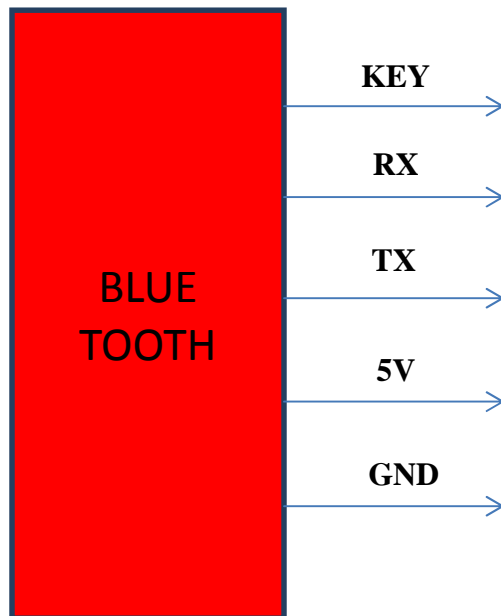


This module enables you to wireless transmit & receive serial data. It is a drop in replacement for wired serial connections allowing transparent two way data communication. You can simply use it for serial port replacement to establish connection between MCU or embedded project and PC for data transfer. This board operates on 5V and has LED indication and 3V regulator.

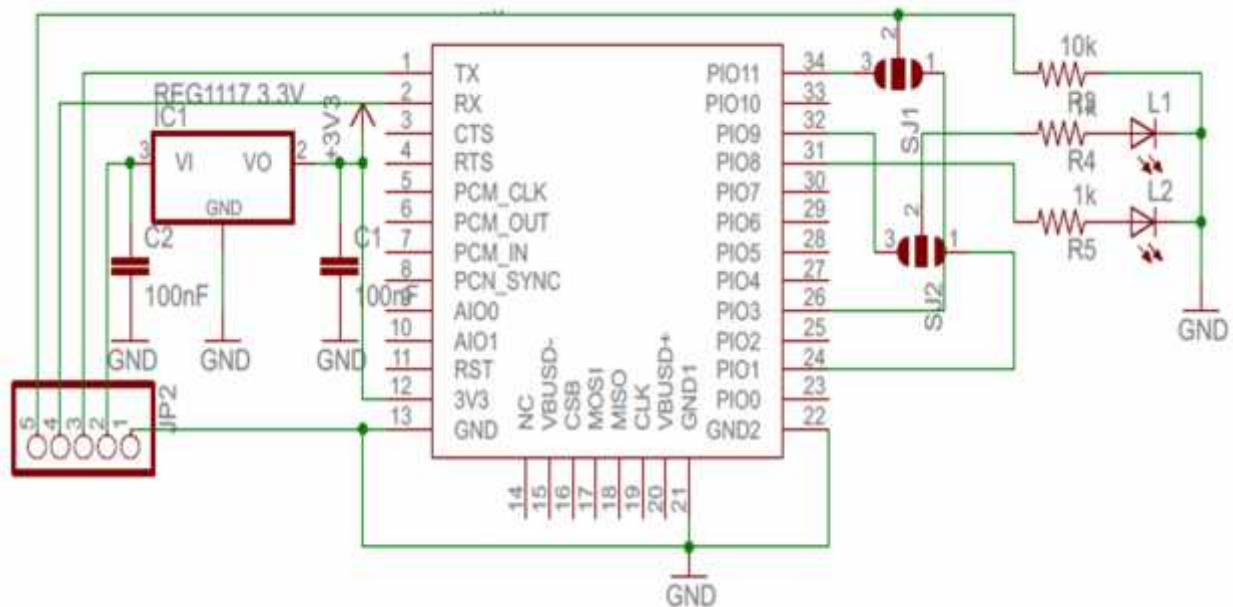
FEATURES

- 5V power operation.
- Supports baud rates from 1200 to 1382400 bps (default is 9600 bps)
- UART interface
- TTL output.
- Built in antenna
- 10 meters range
- Easy to use
- Minimum External Components
- Status LEDs
- High quality PCB FR4 Grade with FPT Certified.

BLOCK DIAGRAM



CIRCUIT DIAGRAM



BLUETOOTH MODULE SCHEMATIC AND CODES

ARM

<http://researchdesignlab.com/bt-arm-schematic>

<http://researchdesignlab.com/bt-arm-code>

ATMEL

<http://researchdesignlab.com/bt-atmel-schematic>

<http://researchdesignlab.com/bt-atmel-code>

PIC

<http://researchdesignlab.com/bt-pic-schematic>

<http://researchdesignlab.com/bt-pic-code>

BLUETOOTH APPS

BLUETOOTH TERMINAL

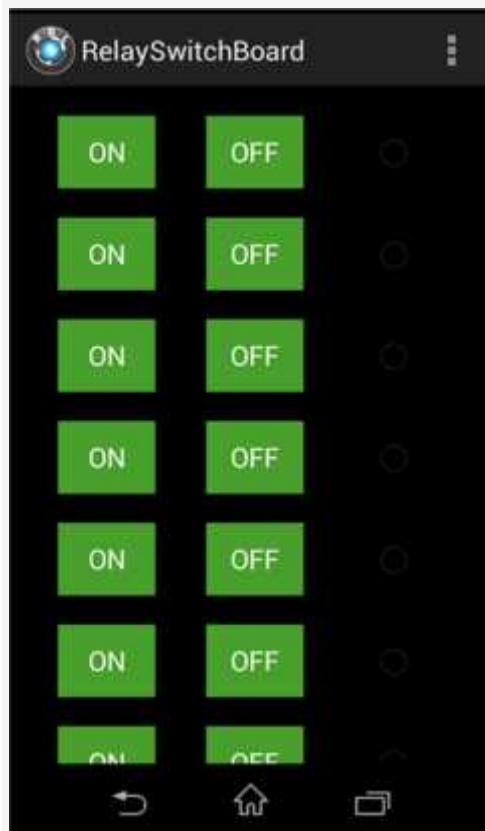


Description

Bluetooth terminal which enables the communication between android phone and Bluetooth terminal devices (i.e. Embedded terminal, Bluetooth printer) . You can simply send the required command to remote Bluetooth terminal by typing and selecting the options like ASCII , HEX , TEXT followed by line feed (LF) & Carriage return (CR). This terminal also receives the data from the remote terminal and displays on the screen.

<https://play.google.com/store/apps/details?id=rdl.goal.terminal>

8 RELAY BLUETOOTH SWITCH



Description

This app acts as a remote controller for controlling the appliance via Bluetooth enabled Android devices. It enables to control eight appliances (ON / OFF)

Features:

1. Support Bluetooth Serial Port Profile, SPP
2. It can control max eight devices.
3. The minimum version of Android OS required for this app is Icecream Sandwich(4.0 API).
4. When the button is pressed On it sends value: 1N , when button is pressed OFF it sends value: 1F

SW1-> ON>1N

SW1 -> OFF>1F

SW2 -> ON>2N

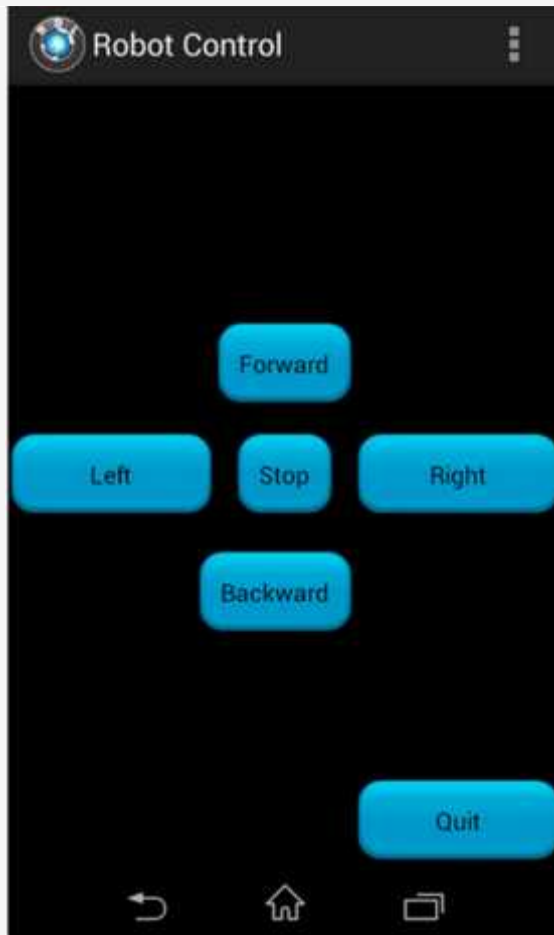
SW2 -> OFF>2F

SW8 -> ON>8N

SW8 -> OFF>8F

<https://play.google.com/store/apps/details?id=rdl.relayswitchboard>

BLUETOOTH APP CONTROL ROBO



Description

Use your Android phone to control a robot via Bluetooth and drives it like an RC car. It controls the direction of a Robot, and also allows rotating clockwise and counter-clockwise. The Robot Control app works like a joystick. Press the buttons FORWARD, BACKWARD for acceleration and moving forward and backward. Left and Right buttons to move left and right, and a Mid button to stop the robot. The quit button exits you from the app successfully. The app will be able to run on android devices with Ice-cream Sandwich and higher versions.

The following data will be transmitted via Bluetooth while performing below given Button press event.

Forward ->>>> 1

Backward ->>>> 2

Left ->>>> 3

Right ->>>> 4

Stop ->>>> 5

<https://play.google.com/store/apps/details?id=rdl.goal.robotcontrol&hl=en>

BLUETOOTH REMOTE CONTROLLER



Description

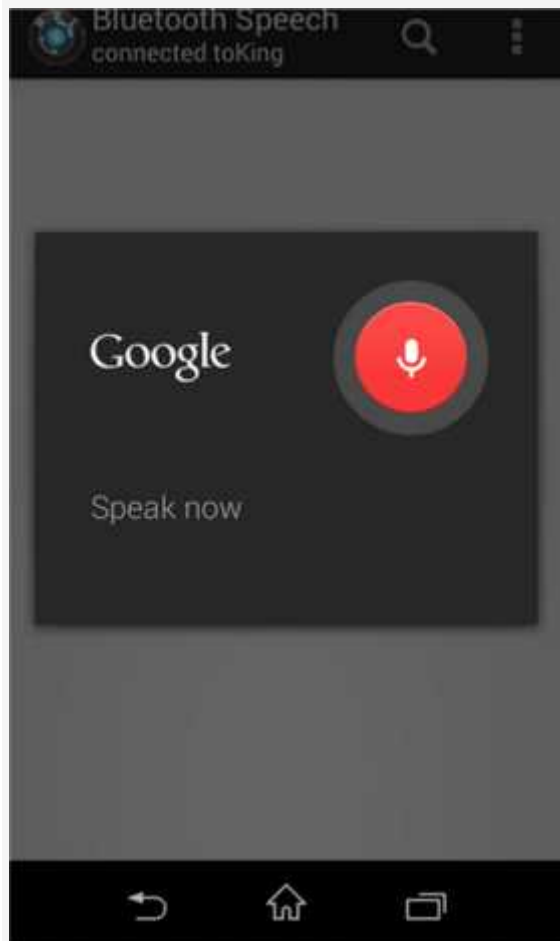
This app acts as a remote controller for controlling the remote appliance via Bluetooth enabled Android devices. It enables to control four maximum appliance (ON / OFF) , also can able to receive the data from the remote terminal(i.e. Temperature , motion , etc) .

Features:

1. Support Bluetooth Serial Port Profile, SPP
2. It can control max four devices.
3. Displays log data in Text format
4. The minimum version of Android OS required for this app is Ice-cream Sandwich(4.0 API).

<https://play.google.com/store/apps/details?id=rdl.goal.androidboard>

RDL BLUETOOTH SPEECH



Description

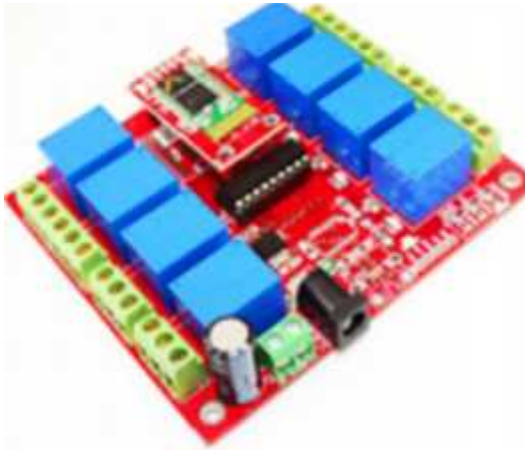
Uses android mobiles internal voice recognition to pass voice commands to your robot Pairs with Bluetooth Serial Modules and sends in the recognized voice as a string for example if you say Hello the android phone will return a sting Hello to your Bluetooth module

Can Be used with any micro controller which can handle strings

<https://play.google.com/store/apps/details?id=goal.rdl.bluetoothspeech>

RELATED PRODUCTS

8 Channel Relay Bluetooth



4 Channel Relay Bluetooth



8 Channel Dimmer With Bluetooth



Bluetooth Development Board

