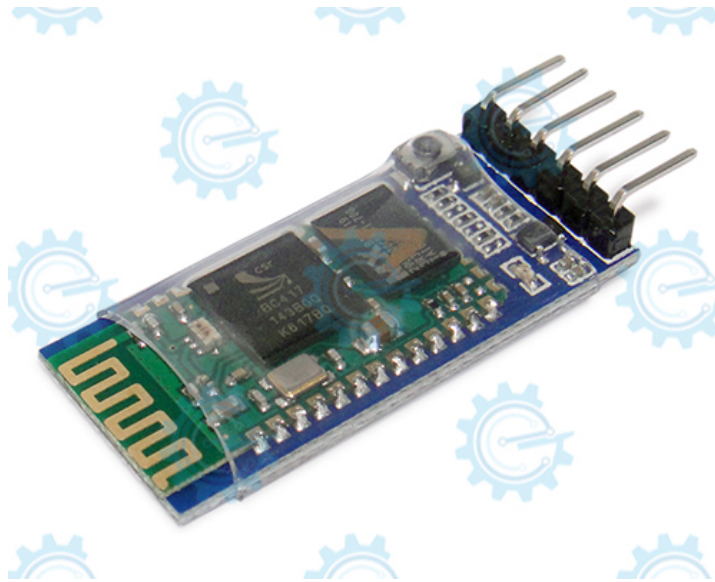


HC-05 Bluetooth Module Breakoutboard

Technical Manual Rev 1r0



HC-05 Bluetooth Module is a low cost bluetooth module and a master/slave functions EGBT-04MS. Class II Bluetooth module with SPP profile (Wireless serial cable replacement). 3.3V UART port. User Configurable Parameters using simple set of AT commands.

General Specifications:

Input Supply Voltage: +5VDC

Connections: Serial interface

Distance range: 10 meters

Dimensions: 16.2mm x 37.5mm

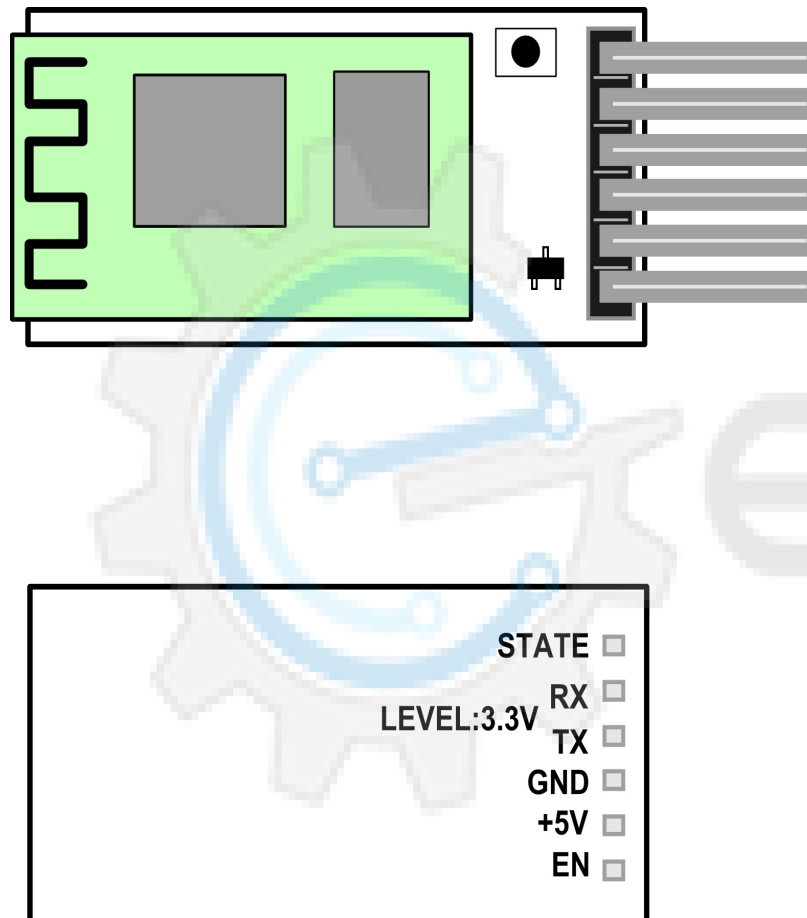


Figure 1. Major parts presentation of HC-05 Bluetooth module

Wiring connections

gizDuino	Bluetooth Module HC-05
+5V	-----> +5V
GND	-----> GND
TX	-----> RX0/D0
RX	-----> TX0/D1

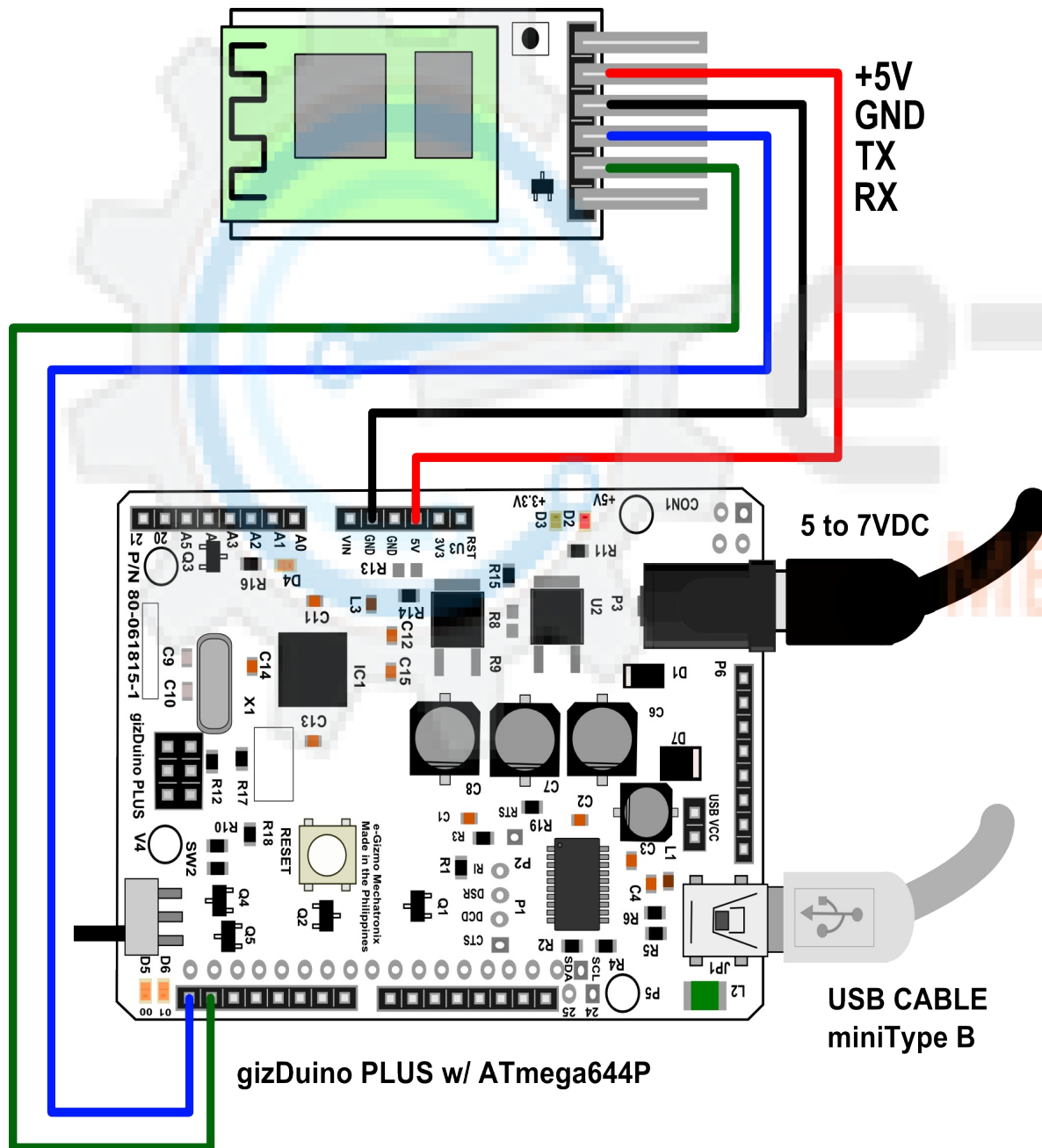


Figure 2. Sample connections

Upload this code to the gizDuino PLUS Microcontroller.
then Open the Serial Monitor to send AT commands.

```
//*****//
//      Bluetooth Configuration      //
//                                  //
//      This sample sketch is for sending AT      //
//      commands using Arduino terminal      //
//      to BT module (HC-05). Compatible      //
//      in all gizDuino boards.      //
//                                  //
//      Codes by:      //
//      e-Gizmo Mechatronics Central      //
//      Taft, Manila, Philippines      //
//      http://www.egizmo.com      //
//      September 27,2016      //
//*****//

#include <SoftwareSerial.h>

SoftwareSerial mySerial(10, 11); // RX, TX
// 2013:3:40964

void setup()
{
    // Open serial communications and wait for port
    to open:
    Serial.begin(38400);

    Serial.println("Ready for configuration...");

    // set the data rate for the SoftwareSerial port
    mySerial.begin(38400);
}

char a=0;
```

```
char b=0;
void loop() // run over and over
{
    mySerial.listen();
    if (mySerial.available()){
        a = mySerial.read();
        Serial.print(a);
    }

    if (Serial.available()){
        b = Serial.read();
        Serial.print(b);
        mySerial.print(b);
    }
}
```