

MSP430G2 with BLE

Code:

```
void setup() {
  Serial.begin(9600); /* Define baud rate for serial communication */
  Serial.println("AT");
}


void loop() {

  String str = "";
  while (Serial.available()) {
    Serial.write((char) Serial.read());

    delay(1); //wait for the next byte, if after this nothing has arrived it means the text was not part of
the same stream entered by the user
  }

}
```

Board: MSP430G2553




Energiia

LaunchPad with MSP430G2553

Revision 1.5

microcontrollerslab

Flash 16 KB
Serial Hardware



Hardware		Pin number
I2C		
Serial UART		
SPI		
analogRead()		
digitalRead() and digitalWrite()		
digitalRead(), digitalWrite() and analogWrite()		

Pin	Function	Pin	Function
1	A0	11	P2_3
2	A1	12	P2_4
3	A2	13	P2_5
4	A3	14	P1_6
5	A4	15	P1_7
6	A5	16	P2_7
7	P1_5	17	TEST
8	P2_0	18	XOUT
9	P2_1	19	P2_6
10	P2_2	20	P2_6

ADC Channels

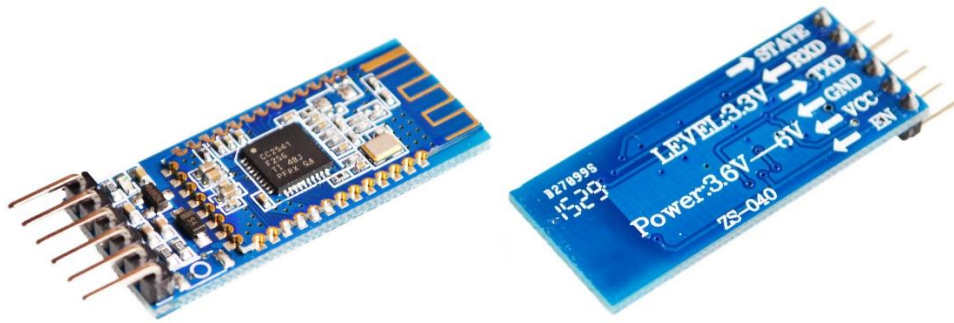
Pin	Function	Pin	Function
11	A7	17	TEST
12	A6	18	XOUT
13	P1_7	19	P2_6
14	P1_6	20	P2_6
15	P2_5		
16	P2_4		
17	P2_3		

ADC channels

Pin	Function	Pin	Function
1	RED_LED	11	P2_3
2	PUSH2	12	P2_4
3	RXD	13	P2_5
4	TXD	14	P1_6
5	SCK (B0)	15	P1_7
6	CS (B0)	16	P2_7
7		17	TEST
8		18	XOUT
9		19	P2_6
10		20	P2_6

Rei Vilo, 2012-2013
embeddedcomputing.weebly.com
 version 1.3 2102-09-09

BLE: AT-09



AT-09 GND <-> Any Arduino GND Pin

AT-09 VCC <-> Any Arduino 5V Pin or 3.3V Pin

Turn on you Arduino, you should see the AT-09 led blink.

Let's connect the TXD and RXD pins with the Arduino like this:

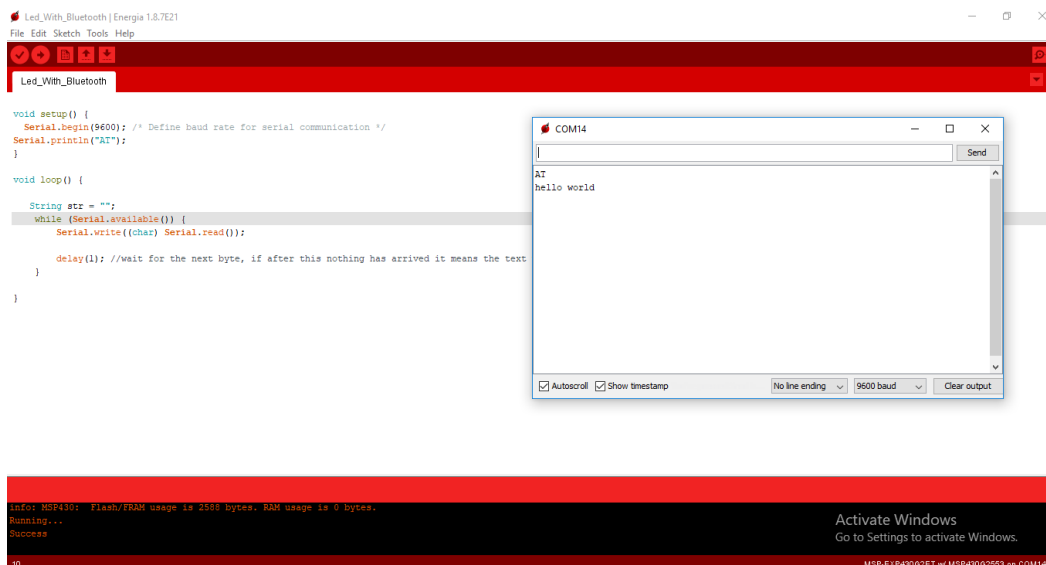
AT-09 RXD <-> Arduino PIN 3

AT-09 TXD <-> Arduino PIN 2

After that, we can begin the serial communication by calling `Serial.begin(9600)` and send the first command `Serial.println("AT")`.

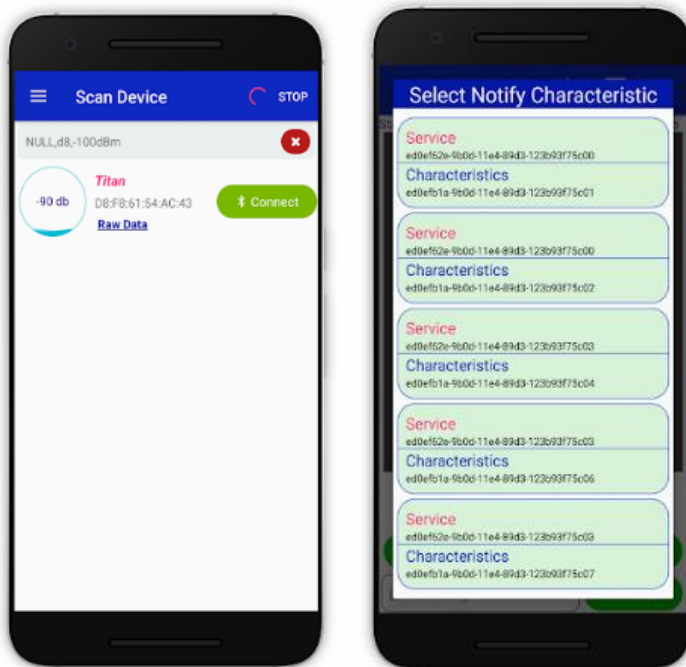
The AT command allows to verify that we are correctly connected and return "OK" in that case. It acts like a ping command.

In order to display the response in the Arduino serial

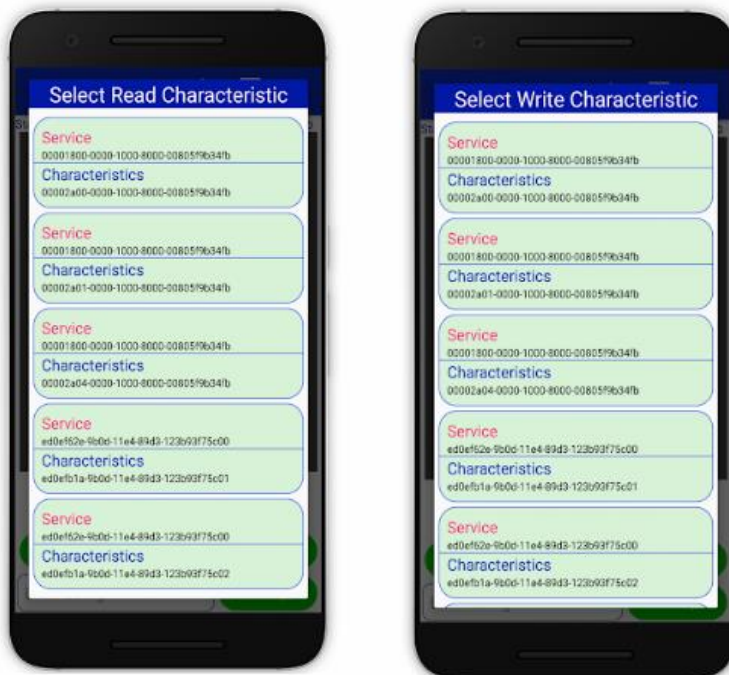


For Testing: Play store>> Download App: BLE TERM

https://play.google.com/store/apps/details?id=com.manishtaraiya.bleterm&hl=en_IN



NOTE: For Reading and Writing We need to change the **Service** in APP



Reference Links:

<https://stackoverflow.com/questions/9901058/arduino-cant-read-serial-properly>

<https://medium.com/@yostane/using-the-at-09-ble-module-with-the-arduino-3bc7d5cb0ac2>