Testing RFID with Arduino

It is easy for programmers to program Arduino with this RFID module, mainly because the communication is through UART interface. UART communication is really easy.

Well, let's begin.

Connect Arduino with RFID module

You could use any Arduino board, UNO or Mega. It's ok. Connect it as the following way:

Arduino	RFID module
GND	 GND
5V	 VCC
Pin 2	 TXD
Pin3	 RXD

Then connect your Arduino to PC with USB cable.

Uploading the code

Basically we use SoftwareSerial lib and Arduino hardware serial. We test it in Arduino 1.0.

Here is the code:

```
#include <SoftwareSerial.h>

SoftwareSerial mySerial(2, 3); //pin2 Rx, pin3 Tx

void setup()
{
    Serial.begin(9600);
    Serial.println("Serial number will be displayed here if a card is detected by the module:\n");
    // set the data rate for the SoftwareSerial port
    mySerial.begin(9600);
    mySerial.write(0x02); //Send the command to RFID, please refer to RFID manual
}

void loop() // run over and over
{
    if (mySerial.available())
        Serial.print(mySerial.read(),HEX); //Display the Serial Number in HEX
    if (Serial.available())
        mySerial.write(Serial.read());
}
```

Result

While you put the card on the RFID module, you will get its serial number.



Note

You can't enter and send command of RFID via Arduino Serial Monitor, because all the commands are in HEX. And Arduino Serial Monitor can only deal with ACII character.

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Revision History

Rev.	Date	Author	Description
А	Mar. 14 th , 2012	Wilson Shen	Initial version