

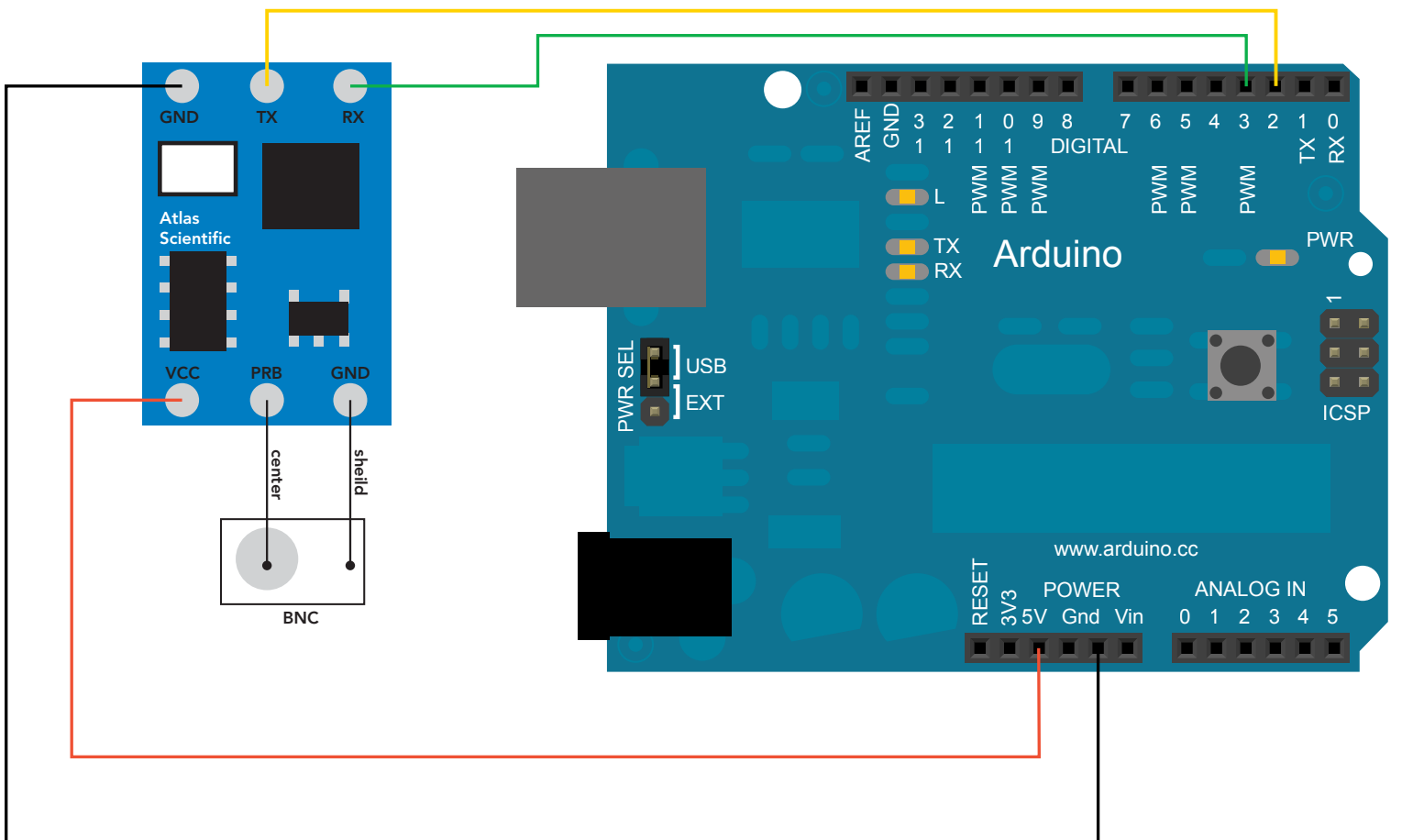
EZ COM



```

/*
This software was made to demonstrate how to quickly get your Atlas Scientific product running
on the Arduino platform.
An Arduino Duemilanove board was used to test this code.
This code was written in the Arduino 1.0 IDE
Modify the code to fit your system.
Code efficacy was NOT considered, this is a demo only.
The soft serial port TX line goes to the RX pin.
The soft serial port RX line goes to the TX pin.
Make sure you also connect to power and GND pins to power and a common ground.
Data is received and re-sent through the Arduinos hardware UART TX line.
Open TOOLS > serial monitor, set the serial monitor to the correct serial port and set the baud
rate to 38400.
Remember, select carriage return from the drop down menu next to the baud rate selection; not
"both NL & CR".
The data from the Atlas Scientific product will come out on the serial monitor.
Type in a command in the serial monitor and the Atlas Scientific product will respond.
*/

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#include <SoftwareSerial.h>           //add the soft serial library
#define rxpin 2                      //set the RX pin to pin 2
#define txpin 3                      //set the TX pin to pin 3

SoftwareSerial myserial(rxpin, txpin); //enable the soft serial port

String inputstring = "";             //a string to hold incoming data from the PC
String sensorstring = "";           //a string to hold the data from the Atlas Scientific product
boolean input_stringcomplete = false; //have we received all the data from the PC
boolean sensor_stringcomplete = false; //have we received all the data from the Atlas Scientific
//product

void setup(){                        //set up the hardware
  Serial.begin(38400);               //set baud rate for the hardware serial port to 38400
  myserial.begin(38400);             //set baud rate for software serial port to 38400
  inputstring.reserve(5);            //set aside some bytes for receiving data from the PC
  sensorstring.reserve(30);          //set aside some bytes for receiving data from Atlas Scientific
//product
}

void serialEvent() {                 //if the hardware serial port receives a char
  char inchar = (char)Serial.read(); //get the char we just received
  inputstring += inchar;             //add it to the inputString
  if(inchar == '\r') {input_stringcomplete = true;} //if the incoming character is a <CR>,
//set the flag
}

void loop(){                          //here we go...
  if (input_stringcomplete){          //if a string from the PC has been received in its entirety
    myserial.print(inputstring);      //send that string to the Atlas Scientific product
    inputstring = "";                //clear the string:
    input_stringcomplete = false;     //reset the flag used to tell if we have received
//a completed string from the PC
  }

  while (myserial.available()) {      //while a char is holding in the serial buffer
    char inchar = (char)myserial.read(); //get the new char
    sensorstring += inchar;           //add it to the sensorString
    if (inchar == '\r') {sensor_stringcomplete = true;} //if the incoming character is a <CR>,
//set the flag
  }

  if (sensor_stringcomplete){        //if a string from the Atlas Scientific product has been
    Serial.print(sensorstring);       //received in its entirety
    sensorstring = "";               //use the hardware serial port to send that data to the PC
    sensor_stringcomplete = false;   //clear the string:
  } //reset the flag used to tell if we have received a completed
//string from the Atlas Scientific product
}

```

[Click here to download the *.ino file](#)