

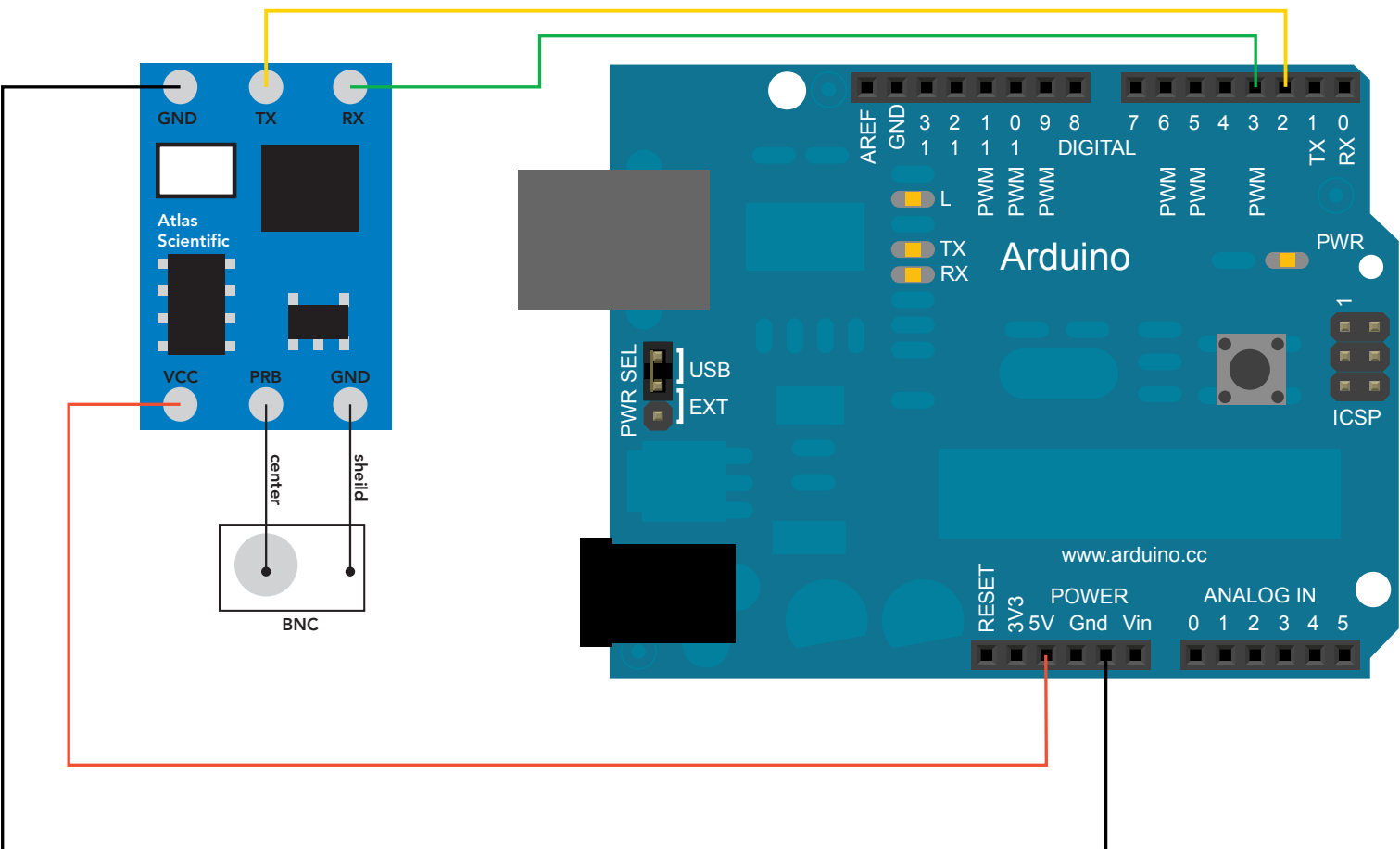
EZ COM



```

/*
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 Arudino 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.
*/

```



```

#include <SoftwareSerial.h>
#define rxpin 2
#define txpin 3

SoftwareSerial myserial(rxpin, txpin);

String inputstring = "";
String sensorstring = "";
boolean input_stringcomplete = false;
boolean sensor_stringcomplete = false;

void setup(){
  Serial.begin(38400);
  myserial.begin(38400);
  inputstring.reserve(5);
  sensorstring.reserve(30);
}

void serialEvent() {
  char inchar = (char)Serial.read();
  inputstring += inchar;
  if(inchar == '\r') {input_stringcomplete = true;}
}

void loop(){

  if (input_stringcomplete){
    myserial.print(inputstring);
    inputstring = "";
    input_stringcomplete = false;
  }

  while (myserial.available()) {
    char inchar = (char)myserial.read();
    sensorstring += inchar;
    if (inchar == '\r') {sensor_stringcomplete = true;}
  }

  if (sensor_stringcomplete){
    Serial.print(sensorstring);
    sensorstring = "";
    sensor_stringcomplete = false;
  }
}

```

//add the soft serial library

//set the RX pin to pin 2

//set the TX pin to pin 3

//enable the soft serial port

//a string to hold incoming data from the PC

//a string to hold the data from the Atlas Scientific product

//have we received all the data from the PC

//have we received all the data from the Atlas Scientific product

//set up the hardware

//set baud rate for the hardware serial port to 38400

//set baud rate for software serial port to 38400

//set aside some bytes for receiving data from the PC

//set aside some bytes for receiving data from Atlas Scientific product

//if the hardware serial port receives a char

//get the char we just received

//add it to the inputString

//if the incoming character is a <CR>,

//set the flag

//here we go...

//if a string from the PC has been received in its entirety

//send that string to the Atlas Scientific product

//clear the string:

//reset the flag used to tell if we have received

//a completed string from the PC

//while a char is holding in the serial buffer

//get the new char

//add it to the sensorString

//if the incoming character is a <CR>,

//set the flag

//if a string from the Atlas Scientific product has been received in its entirety

//use the hardware serial port to send that data to the PC

//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