# EZ COM MEGA

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/*
This software was made to demonstrate how to quickly get your Atlas Scientific product running on
the Arduino platform.
An Arduino MEGA 2560 board was used to test this code.
This code was written in the Arudino 1.0 IDE
Modify the code to fit your system.
**Type in a command in the serial monitor and the Atlas Scientific product will respond.**
**The data from the Atlas Scientific product will come out on the serial monitor.**
Code efficacy was NOT considered, this is a demo only.
The TX3 line goes to the RX pin of your product.
The RX3 line goes to the TX pin of your product.
Make sure you also connect to power and GND pins to power and a common ground.
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".
*/
```
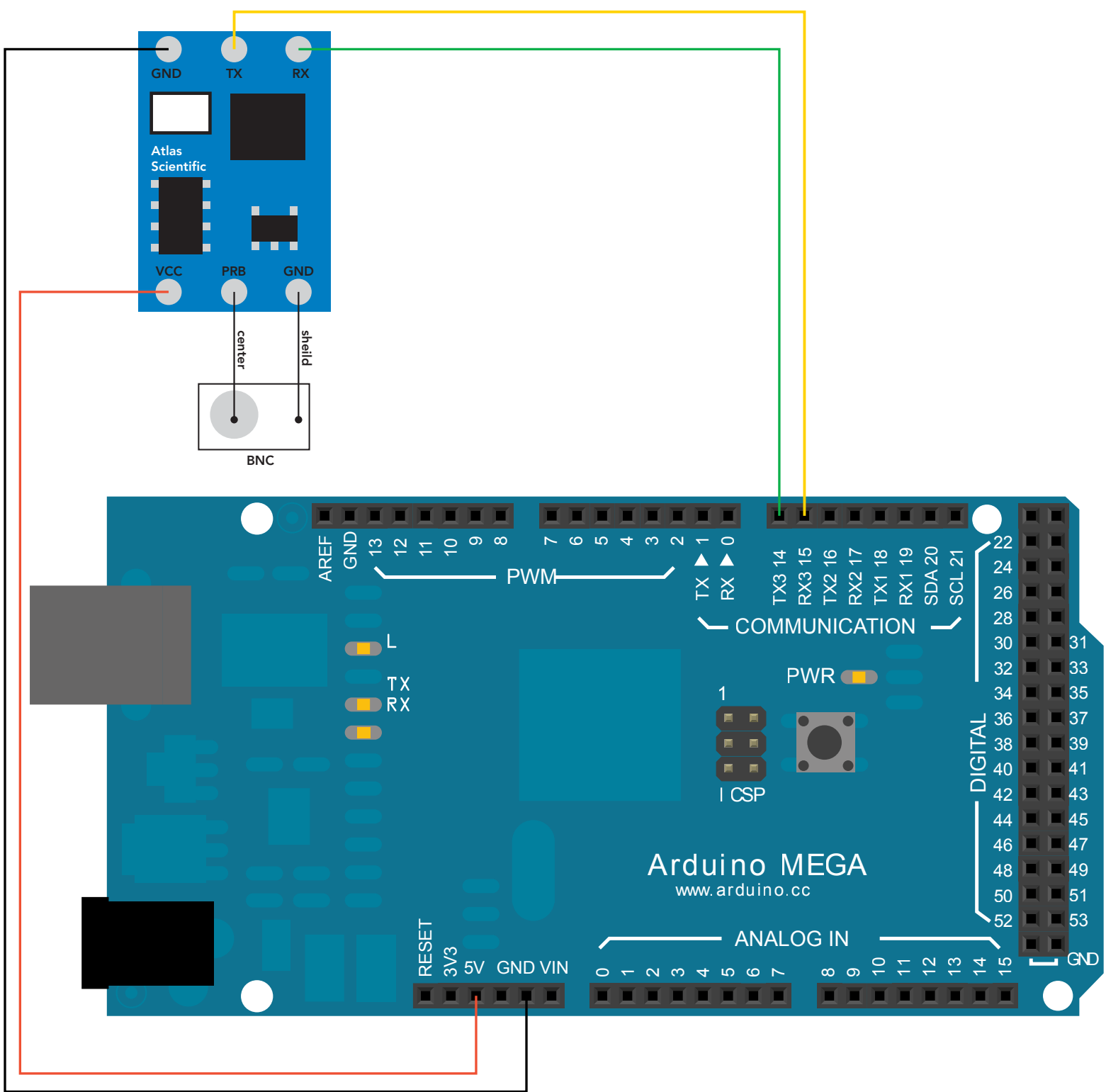


```
String inputstring = "";                    //a string to hold incoming data from the PC
String sensorstring = "";                   //a string to hold the data from the Atlas Scientific product
boolean input_stringcomplete = false;       //have we received all the data from the PC
boolean sensor_stringcomplete = 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_0 to 38400
    Serial3.begin(38400);                   //set baud rate for software serial port_3 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_0 receives
        char inchar = (char)Serial.read();  //a char
        inputstring += inchar;              //get the char we just received
        if(inchar == '\r') {input_stringcomplete = true;}  //add it to the inputString
        }                                   //if the incoming character is a <CR>,
                                            //set the flag


void serialEvent3(){                        //if the hardware serial port_3 receives
        char inchar = (char)Serial3.read(); //a char
        sensorstring += inchar;             //get the char we just received
        if(inchar == '\r') {sensor_stringcomplete = true;}  //add it to the inputString
        }                                   //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 entierty
        Serial3.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


    if (sensor_stringcomplete){             //if a string from the Atlas Scientific product has been
        Serial.println(sensorstring);       //received in its entierty
        sensorstring = "";                  //send that string to to the PC's serial monitor
        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