RS232 Shield
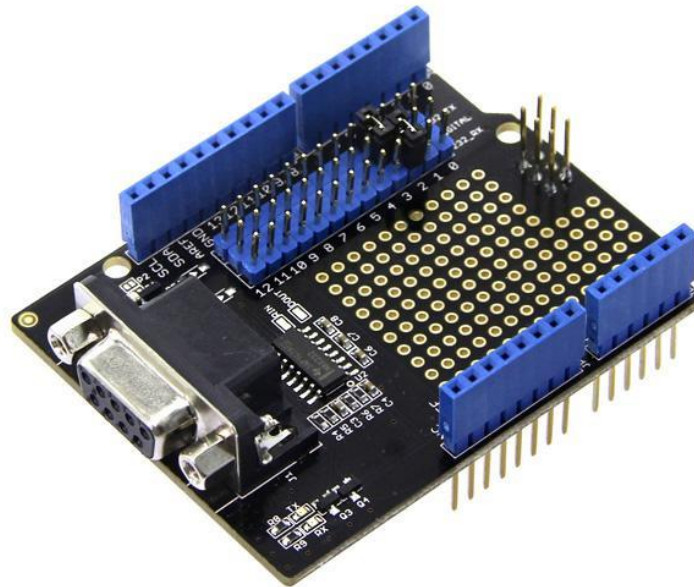

RS232 Shield is a standard communication port for industry equipment.This module is base on MAX232,which is a dual driver/receiver that includes a capacitive voltage generator to supply TIA/EIA-232-F voltage levels from a single 5-V supply. The shield integrates DB9 connectors (female) that provide connection to various devices with RS232 interface. Also the RS232 headers will facilitate your connections and commissioning. It provides the welding areas to make full use of extra space on it, which is highly convenient for prototyping.

Specifications

- Meets or Exceeds TIA/EIA-232-F and ITU
- Operates Up To 120 kbit/s
- Low Supply Current
- LED Indicator
- DB9 Connectors(female)
- Welding Areas

Compatibility

We have produced a lot of extension board that can make your platform board more powerful, however not every extension board is compatible with all the platform board, here we use a table to illustrate how are those boards compatible with platform board.

Note
Please note that "Not recommended" means that it might have chance to work with the platform board however requires extra work such as jump wires or rewriting the code. If you are interested in digging more, welcome to contact with techsupport@seeed.cc.

Click to see full picture

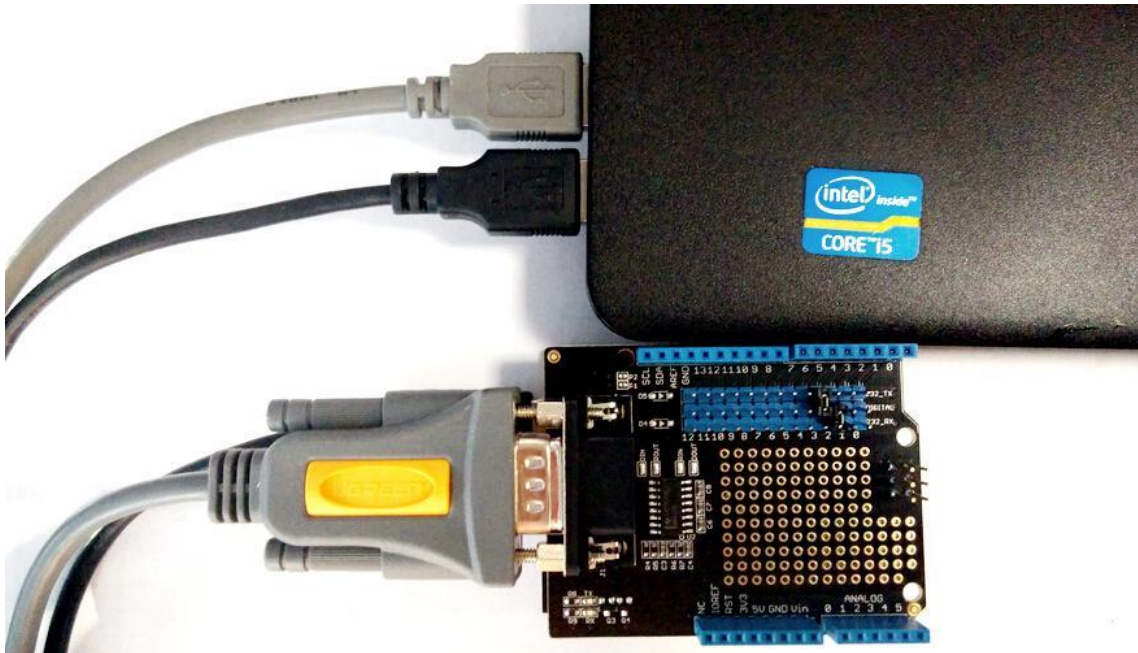|	Arduino Uno Seeeduino v4.2	Arduino Mega Seeeduino Mega	Zero(m0) LoraWan	Arduino Leonardo Seeeduino Lite	Arduino 101	Arduino Due 3.3v	Intel Edison 5v	Linkit One
2.8'' TFT Touch Shield V2.0	bmp nonsupport	bmp nonsupport	Not recommended	bmp nonsupport	Not recommended	Not recommended	Not recommended	Not recommended
Base Shield V2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Camera Shield	Only Pin234567	Hardware Serial OK	Not recommended	Not recommended	Yes	Hardware Serial OK	No	No
EL Shield	Yes	Yes	No	Yes	No	No	No	No
Energy Shield	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
GPRS Shield	Not recommended	Not recommended	Yes	Yes	Yes	Not recommended	Yes	No need
Motor Shield V2.0	Yes	Stepper motor only	No	Yes	Stepper motor only	Stepper motor only	No	No
Music Shield V2.0	Yes	Yes	Not recommended	Yes	Yes	Yes	Yes	Yes
NFC Shield V2.0	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Protoshield Kit for Arduino	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RS232 Shield	Yes	Yes	No	Yes	No	No	No	No
Relay Shield V3.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SD Card Shield V4.0	Yes	Yes	Not recommended	Yes	Yes	Yes	No	No
Seeed BLE Shield V1	Yes	Not recommended	Not recommended	Yes	No need	Not recommended	Not recommended	No need
W5500 Ethernet Shield	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wifi Shield(Fi250) V1.1	Not recommended	Not recommended	Not recommended	Yes	Yes	Not recommended	No need	No need
Wifi Shield V2	Yes	Not recommended	Not recommended	Yes	Yes	Not recommended	No need	No need
XBee Shield V2	Yes	Not recommended	Not recommended	Yes	Yes	Not recommended	Not recommended	Not recommended

Interface Function

Usage

First,we can test it by computer.

Hardware Installation

1. Seeeduino v3.0,Mini usb Cable,RS232 Shield,RS232 to USB Cable.

2. Make the connections as below. The jumper hats can be used to select the software serial port from the digital pins. You can set them to D7(232_TX) and D6(232_RX), and modify the code to "*SoftwareSerial mySerial(7, 6); // 232_TX, 232_RX*"
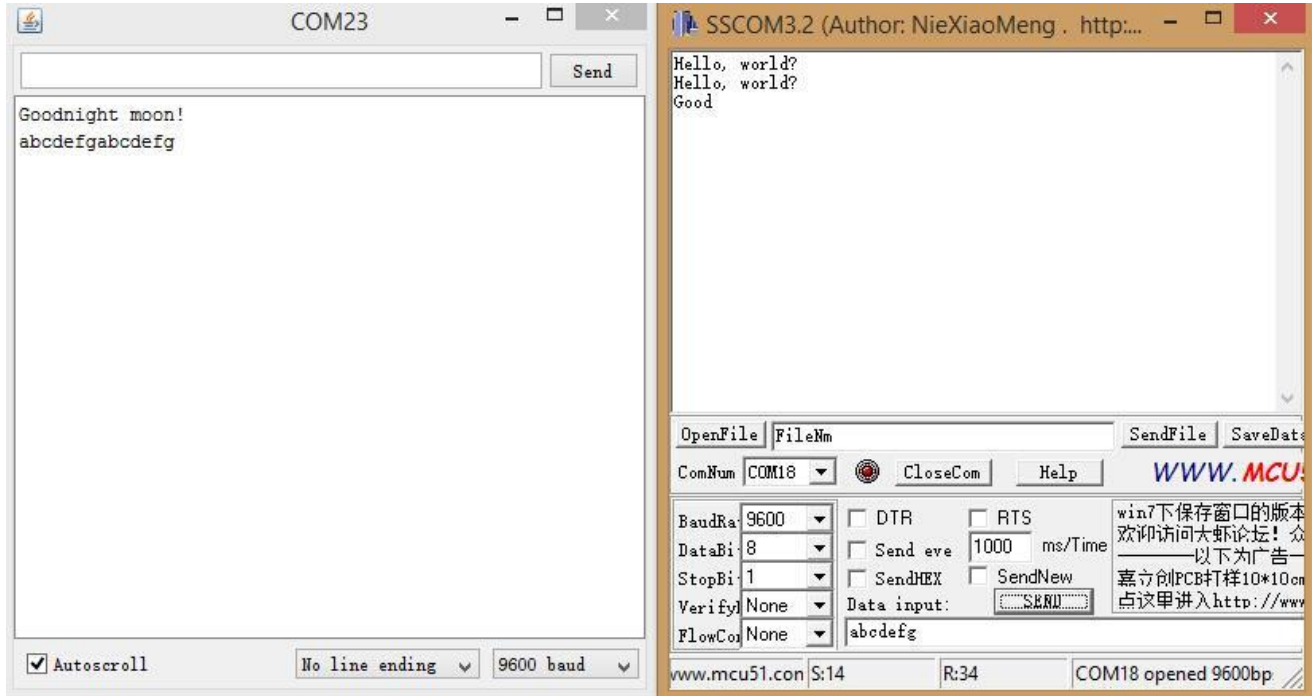
Software Part

- 1) Open Arduino IDE, and paste the code below.

```
1
2  #include <SoftwareSerial.h>
3
4  SoftwareSerial mySerial(7, 6); //232_TX,232_RX
5
6  void setup()
7  {
8    // Open serial communications and wait for port to open:
9    Serial.begin(9600);
10   while (!Serial) {
11     ; // wait for serial port to connect. Needed for Leonardo only
12   }
13
14
15   Serial.println("Goodnight moon!");
16
17   // set the data rate for the SoftwareSerial port
18   mySerial.begin(9600);
19   mySerial.println("Hello, world?");
20 }
21
22 void loop() // run over and over
23 {
24   if (mySerial.available())
25   Serial.write(mySerial.read());
26   if (Serial.available())
27   mySerial.write(Serial.read());
28 }
```

- 2) Upload the code. Note that you should select the correct board type and COM port.
- 3) Open the Serial Monitor.

You can see :

Resources

- RS232 Shield eagle file
- RS232_Shield_v1.0.pdf
- Datasheet MAX232D.pdf

Tech Support

Please submit any technical issue into our forum or drop mail to techsupport@seeed.cc.