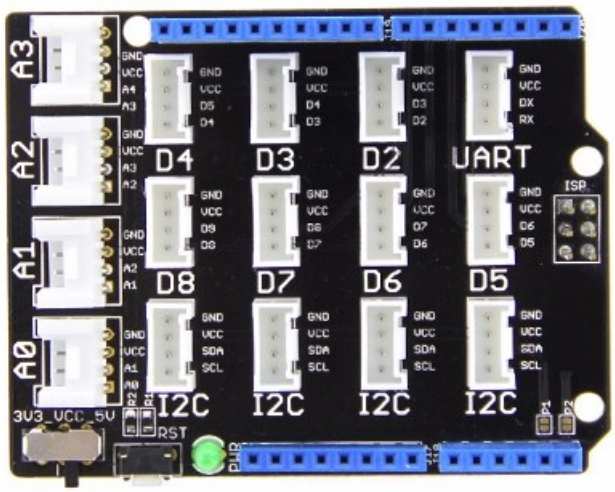
Base Shield V2



Arduino Uno is the most popular Arduino board so far, how ever it is sometimes frustrating w hen your project requires a lot of sensors or Leds and your jumper w ires are in a mess. The purpose of creating the Base Shield is to help you get rid of bread board and jumper w ires. With the rich grove connectors on the base board, you can add all the grove modules to the Arduino Uno conveniently! The pinout of Base Shield V2 is the same as Arduino Uno R3, how ever Arduino Uno is not the board one that the Base Shield V2 is compatible w ith plenty of boards.

Get One Now

Version

Product Version	Changes	Released Date
Base Shield V1.2	Initial	Oct 2011
Base Shield V1.3	Change the Grove connector layout and quantity	Aug 2012
Base Shield V2.0	Change the Grove connector layout and quantity, as w ell as a pow er sw itch to enable both 3.3V and 5V.	Mar 2014

Compatible Boards

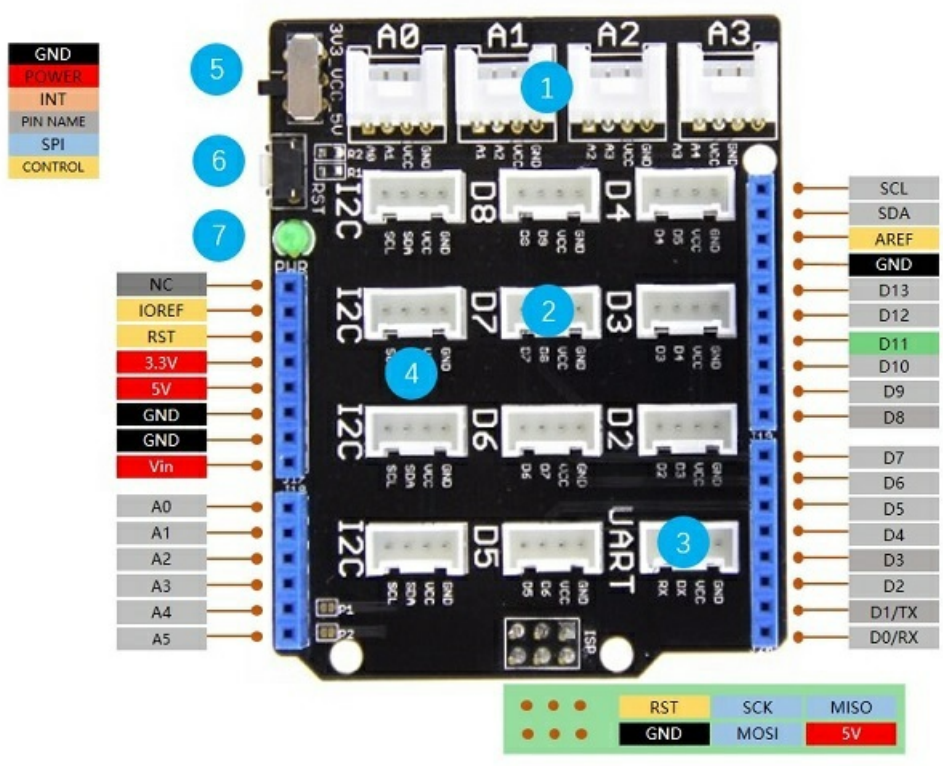
The Base Shield is tested and fully compatible w ith follow ing boards:

- Arduino Uno(all revisions)/Seeeduino(V4&V4.2)
- Arduino Mega/Seeeduino Mega
- Arduino Zero(M0)/Seeeduino Loraw an
- Arduino Leonardo/Seeeduino Lite
- Arduino 101
- Arduino Due 3.3V
- Intel Edison 5V
- Linkit One

!!!Note
The boards are not listed above mean that it might have chance to w ork w ith the platform board how ever requires extra w ork such as jump w ires or rew riting the

code. If you are interested in digging more, welcome to contact with techsupport@seeed.cc.

Hardware Overview



- **1-Analog Ports**: include 4 anlog ports, A0, A1, A2 and A3.
- **2-Digital Ports**: include 7 digital ports, D2, D3, D4, D5, D6, D7 and D8.
- **3-UART Port**: 1 UART port.
- **4-I2C Ports**: 4 I2C ports.
- **5-Power Switch**: when using Arduino UNO with Base Shield v2, please turn the switch to 5v position; While using Seeeduino Arch with Base Shield v2, please turn the switch to 3.3v.
- **6-Reset Buton**: reset the arduino board.
- **7-PWR LED**: The Green LED turns on when power on.
- **Dimension**: 2.1 * 2.7 inch

!!!Note
If we use Base Shield v2 with Seeeduino V3, please solder the pads, P1 and P2.

Getting Started

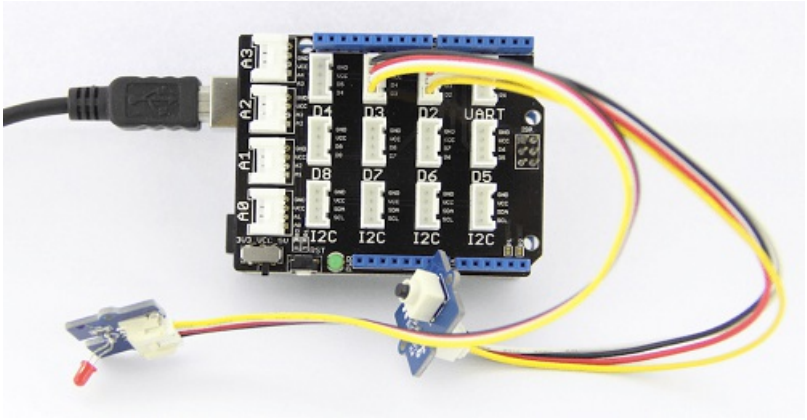
Hardware

- Step 1. Prepare the below stuffs:

Seeeduino V4	Base Shield	Grove - Buzzer	Grove - Button
			
Get ONE Now	Get ONE Now	Get ONE Now	Get ONE Now

- Step 2. Connect Grove - Buzzer to port D3 of Base Shield.

- Step 3. Connect Grove - Button to port D2 of Base Shield.
- Step 4. Plug Base Shield into Seeeduino.
- Step 5. Connect Seeeduino to PC through a USB cable.



Software

- Step 1. Copy below code to Arduino IDE and upload to Seeeduino.

```
const int button = 2;       // connect a button
const int buzzer    = 3;       // connect a buzzer
void setup()
{
    pinMode(button, INPUT); //set button as an INPUT device
    pinMode(buzzer, OUTPUT);   //set LED as an OUTPUT device
}
void loop()
{
    int btn = digitalRead(button); //read the status of the button
    digitalWrite(buzzer, btn);
    delay(10);
}
```

- Step 2. Press the button and we will hear the buzzer.

Resources

- **[PDF]** Download Wiki PDF
- **[Eagle]** Base Shiled V2 SCH
- **[Eagle]** Base Shiled V2 PCB
- **[PDF]** Base Shiled V2 SCH
- **[PDF]** Base Shiled V2 PCB