



Part Number: DFR0265

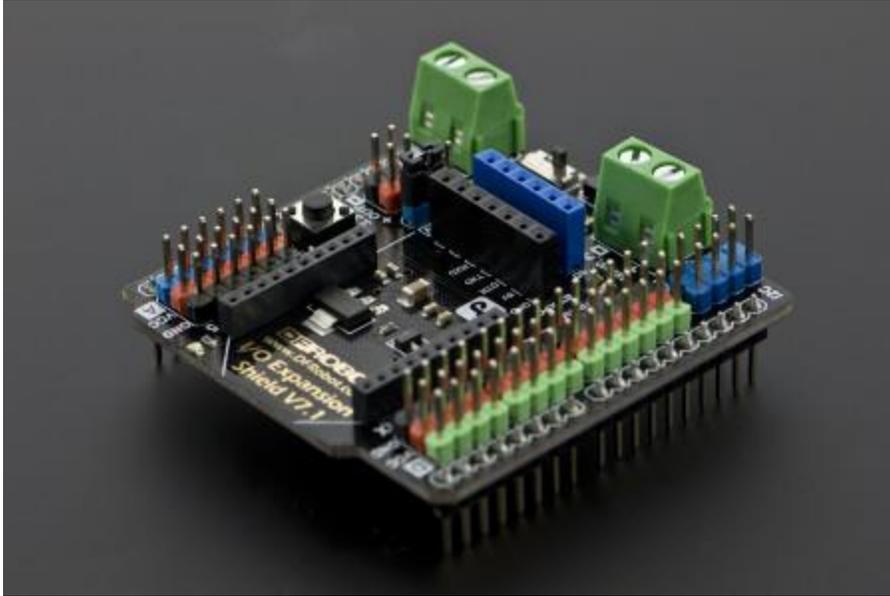
Description: Gravity IO Expansion Shield for Arduino V7.1

INTRODUCTION

IO Expansion shield is one of the market favourites. Fast robotics prototyping made affordable and simple thanks to this design. Soldering and wiring often becomes a problem when a bridged connection happens and components break. Increasing time and cost for projects. Often, without this solution and a soldering station, wire crimping tools or soldering station, robot prototyping or electronics DIY becomes a very long term project.



Digital Interface	14	14	8	14	14	6	14
Analog Interface	6	6	4	6	6	6	6
IIC	2	1	4	1	1	1	✗
XBee/BLE Interface	✓	✓	✗	✗	✗	✓	✓
APC220/BLE Interface	✓	✓	✗	✓	✗	✗	✓
SD Card Socket	✓	✓	✗	✓	✓	✗	✗
3.3V/5V Output Switch	✓	✗	✗	✗	✗	✗	✗
External Input Interface	✓	✓	✗	✓	✓	✗	✓
Motor Input Interface	✓	✓	✗	✗	✓	✗	✓
3.3V Constant Output	✓	✓	✗	✓	✓	✗	✗
URM Interface	✗	✓	✗	✓	✗	✗	✗
RS485 Interface	✗	✓	✗	✗	✗	✗	✓
12864 Screen Interface	✗	✗	✗	✓	✓	✗	✗



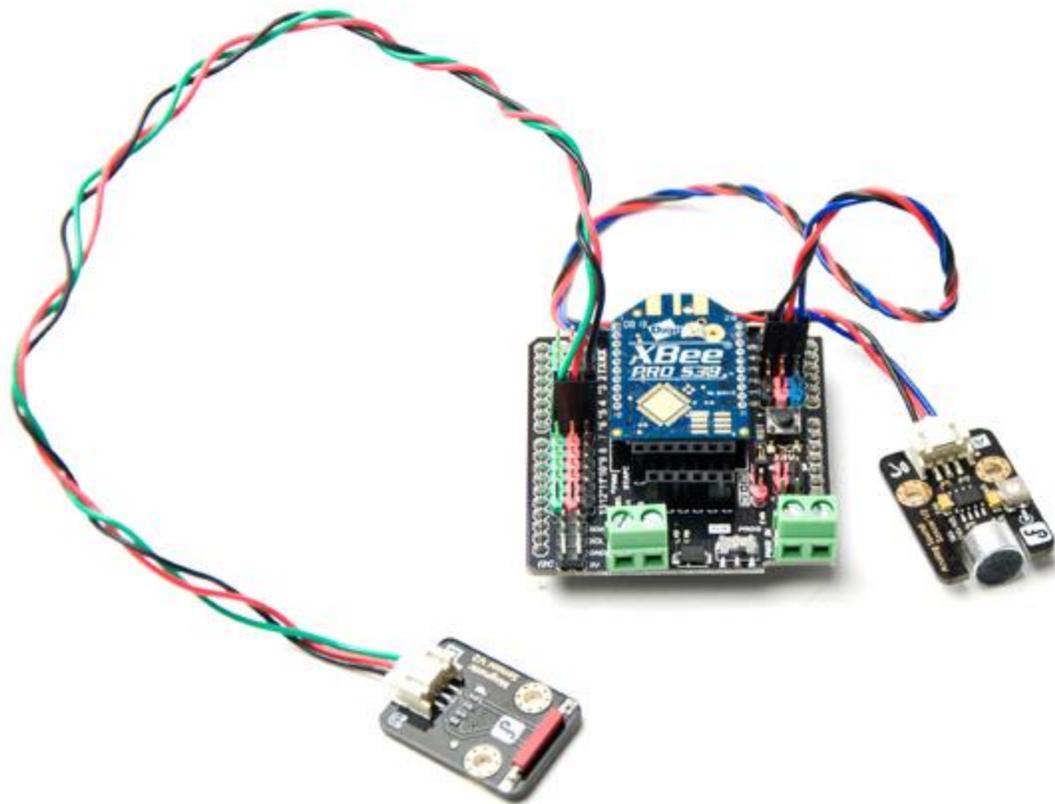
The DFRobot Expansion shield introduced to the market the famous color code for sensors and actuators input and output. The 3 pin format for Signal, Voltage and Ground is extremely useful, specially if used altogether with our increasingly large range of [modules](#), [sensors](#) and devices that just fit .

Alternatively, the board includes power input for salvaged [power supplies](#) or laboratory power supplies. Very common [Xbee socket](#) for multipurpose [wireless connectivity](#) such as RF, wireless, bluetooth.

The new version includes a voltage hardware setting through a jumper to allow compatibility with a bigger range of components at 3.3v like [Raspberry pi](#), Due and others.

It also includes a [Servo](#) external power, with a protective [diode](#). This way you can enable a large range of servos from your Arduino.

Latest version features a convenient switch that lets you program your ATmega328 boards like [UNO](#), while you have another Serial device connected like a Xbee. Switch it, program it and get it back up and running with another switch. You don't need to disassemble your hardware or wiring.



A LED on top board and a reset button is in order to make it just a natural extension to [Arduino boards](#). The LED is connected to pin 13.

FEATURES

- Compatible with the new Arduino Due
- 3.3V/5V operating voltage select
- Switch for wireless communication & programme
- More Easily recognitive interfaces
- Colorful header for illustrating digital or analog pins
- Immersion gold surface

SPECIFICATION

- Input Voltage
 - 7-12V, PWR_IN
 - 4.8-6V, SERVO_PWR, depending on your servo
- Compatible module voltage: 5V/3.3V
- Support interface: I2C, SPI, Xbee (Xbee pro), Bluetooth, APC220

SHIPPING LIST

- IO Expansion Shield for Arduino V7.1 x1