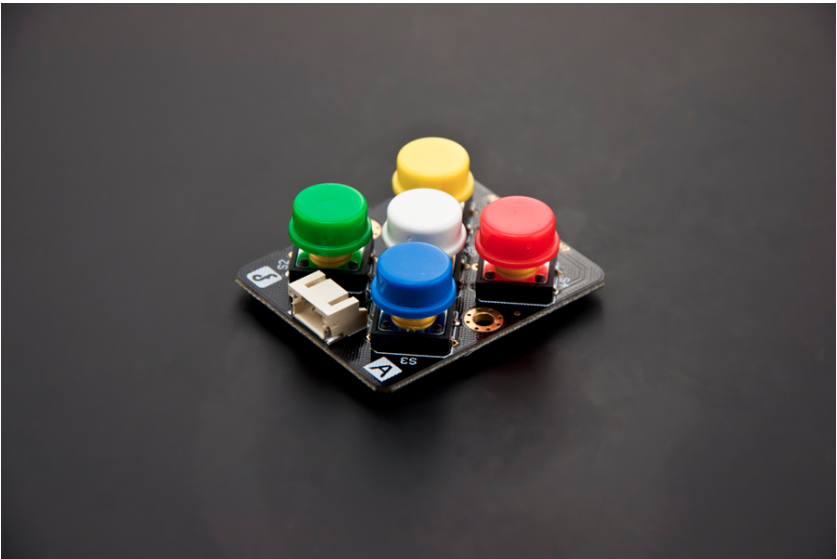


search



(<https://www.dfrobot.com/product-197.html>)

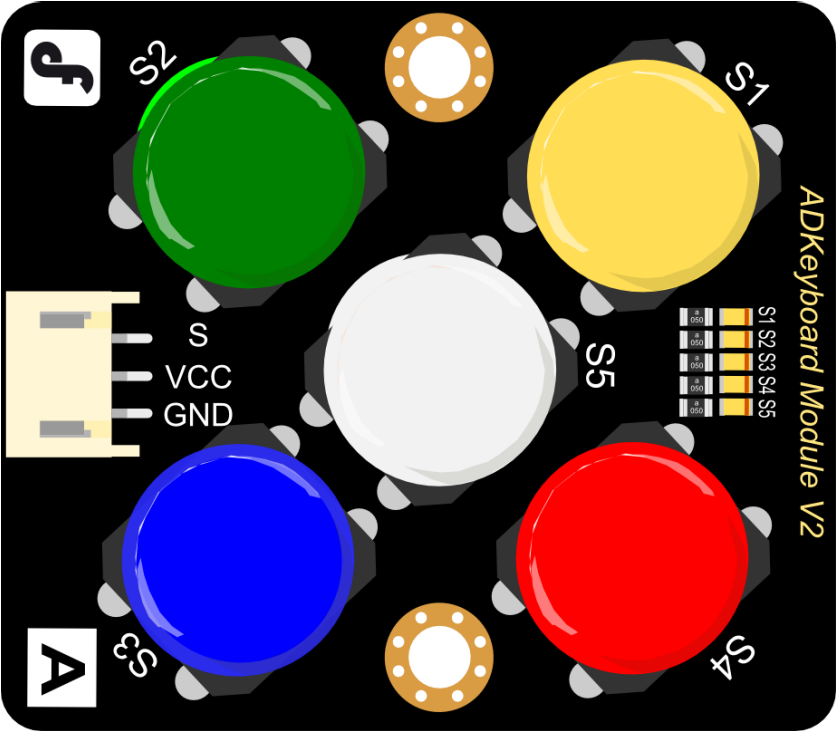
## Introduction

This keyboard uses an analog input to read the five key state which saves IO resource for the Arduino. It can be used together with our IO Expansion Shield\_For Arduino(V5)\_(SKU:\_DFR0088) (IO\_Expansion\_Shield\_For\_Arduino\_V5\_\_SKU\_\_DFR0088\_) to make amazing interactive project.

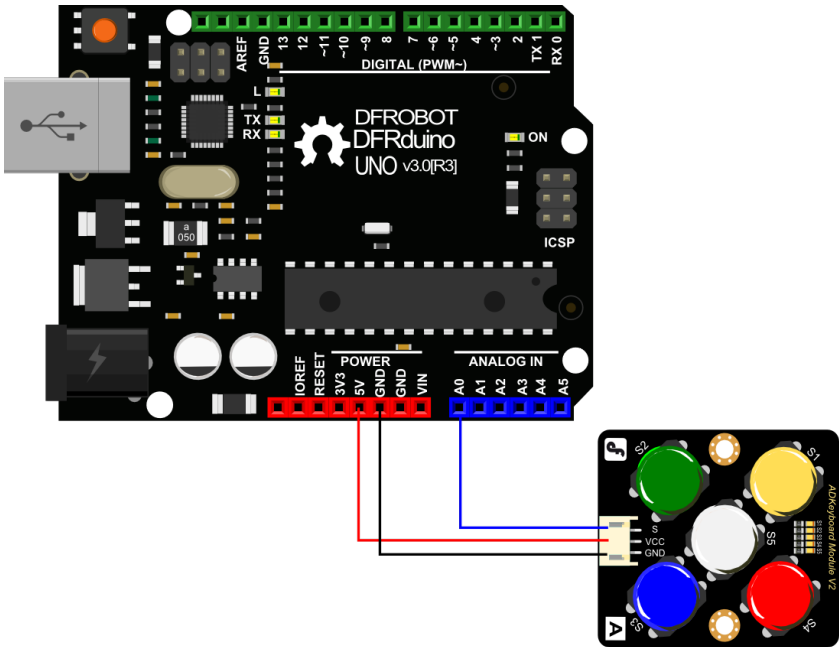
## Specification

- Supply voltage: 5V
- Interface: Analog
- Size: 40x33mm

## Pin out Diagram



## Wiring Diagram



Sample Code




```
//ADKeyboard Module
//Developed by DFRobot.com
//Last modified 30/11/2011
//Version 1.0
int adc_key_val[5] ={600,650, 700, 800, 900 };
int NUM_KEYS = 5;
int adc_key_in;
int key=-1;
int oldkey=-1;
void setup()
{
    pinMode(13, OUTPUT); //we'll use the debug LED
    Serial.begin(9600); // 9600 bps
}

void loop()
{
    adc_key_in = analogRead(0);    // read the value
    digitalWrite(13,LOW);
    key = get_key(adc_key_in);    // convert into key number

    if (key != oldkey)    // if keypress is detected
    {
        delay(50); // wait for debounce time
        adc_key_in = analogRead(0);    // read the value
        key = get_key(adc_key_in);    // convert into key number
        if (key != oldkey)
        {
            oldkey = key;
            if (key >=0){
                digitalWrite(13,HIGH);
                switch(key)
                {
                    case 0:Serial.println("S1 OK");
                        break;
                    case 1:Serial.println("S2 OK");
                        break;
                    case 2:Serial.println("S3 OK");
                        break;
                    case 3:Serial.println("S4 OK");
                        break;
                    case 4:Serial.println("S5 OK");
                        break;
                }
            }
        }
    }
    delay(100);
}
// Convert ADC value to key number
int get_key(unsigned int input)
{
    int k;
    for (k = 0; k < NUM_KEYS; k++)
    {
        if (input < adc_key_val[k])
        {
            return k;
        }
    }
    if (k >= NUM_KEYS)k = -1; // No valid key found
    return k;
}
```

## More Documents

 Get **ADKeyboard Module** (<https://www.dfrobot.com/product-197.html>) from DFRobot Store or **DFRobot Distributor**. (<https://www.dfrobot.com>)



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