Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
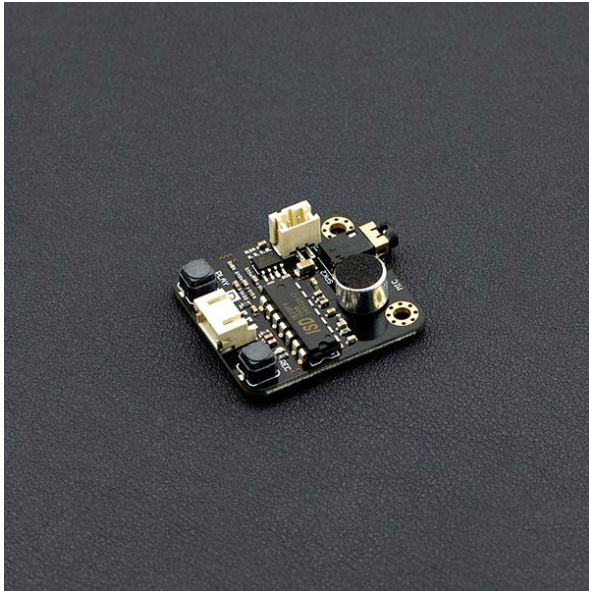Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Voice Recorder-ISD1820 SKU: SEN0197

From Robot Wiki

Voice Recorder-ISD1820

Contents

Introduction

This is the latest ISD1820 voice recorder module with integrated record and play functions. Easily record your voice by pressing the record button, speaking and then releasing the button when finished. The module is able to playback 10 seconds in total. Connect an 8Ω 3W speaker or an external active speaker for voice output. The module also has a 3 pin digital interface so you can connect it to an Arduino compatible microcontroller as a playback trigger.

Specification

- Operating voltage: 5V
- Recording time: 10 seconds
- Sampling frequency: 6.4KHz
- Repeatable recording times: 100,000
- Dimensions: 37*35 mm/ 1.46*1.38 incheBoard Oveview

Board Overview

| Name	Features
SPK1	Speaker (Supports 8Ω@3W speaker)
SPK2	Active Speaker
PLAY	Play Audio
REC	Record (Release the button to stop recording)
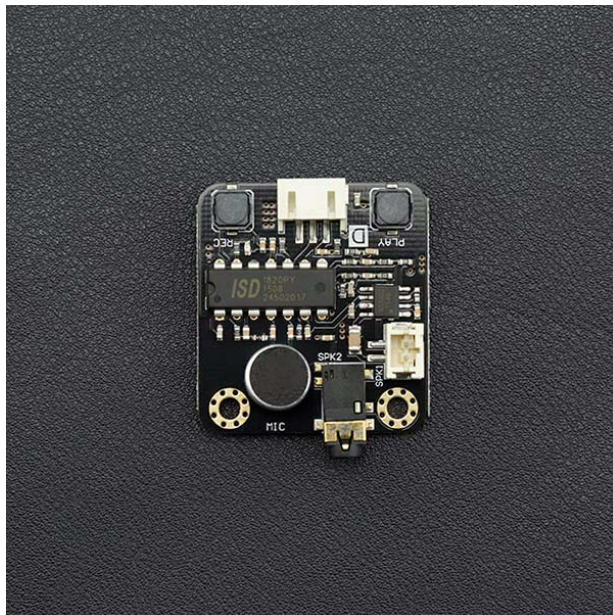
Manual Control

1. Press the record button to record; release the button to stop recording. The module supports 10s of recording and the red LED on the board will flash when the buffer is full.
2. Press the play button to play the recording; At the end of playback, the red LED on the board will flash once.
3. This module can control playback with an Arduino compatible microcontroller. See below for details.

Arduino Control

Requirements

- **Hardware**
  - DFRduino UNO x1
  - IO expansion shield V7 x1
- **Software**
  - Arduino IDE V1.6.5 Click to Download Arduino IDE from Arduino®
  - https://www.arduino.cc/en/Main/Software

Connection Diagram
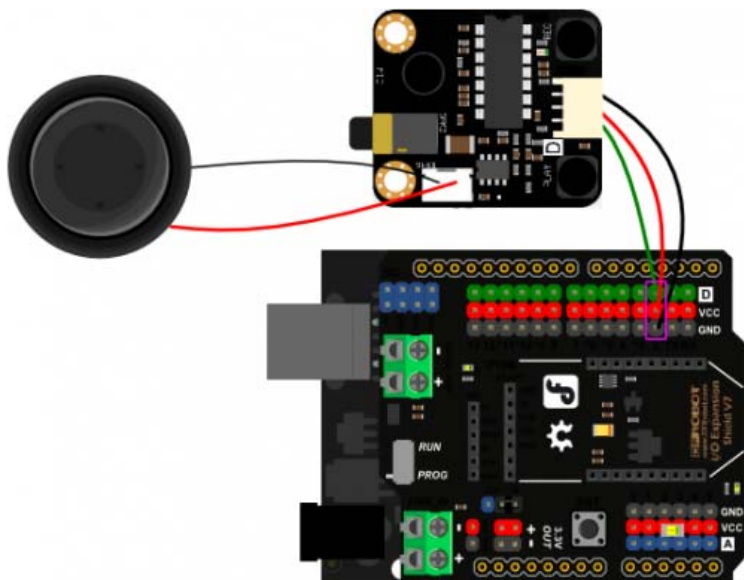
Sample Code

```
1 int Play_pin = 2;
2 void setup() {
3   pinMode(Play_pin,OUTPUT);
4   digitalWrite(Play_pin,LOW);
5 }
6
7 void loop() {
8   digitalWrite(Play_pin,HIGH);
9   delay(1000);
10 }
```

FAQ

For any questions, advice or cool ideas to share, please visit **DFRobot Forum**.