

Microduino-MCookie-SD

USER GUIDE

Inhalt

Features	0
Document	0
Development	2
Application	2

Features

- Adopt high reliability of contact structure, and 2.2mm and 2.4mm thick slim MicroSD card.
- Small, cheap, stackable and open.
- Open-source hardware circuit design, and compatible-with-Arduino programming development environment.

Document

Main Component

- Cassette : microsd cassette [File:MicroSD.pdf](#)
- Level switching chip : TC74HC4050 [File:TC74HC4050AF.pdf](#)

Development

Arduino Library and Support Package

- Adopt adfaruit SD library file:
 - Primitive library: (core+ cannot be directly used) [【github download】](#)
 - Modified library : (Spi pins have been modified aimed at core+) [【File:Lib SD.zip】](#)
 - SimpleSDAudio: [_06_Microduino_SD_SimpleSDAudio](#)
- You can store and read the date through combining Microduino core modules and sensors modules to realize memory, analysis, and processing.

Application

Program Download

Testing program : [File:Program Test SD.zip](#)

Test of Reading, Writing and Removing toward Microduino-SD Files

- Hardware needs to be prepare: Microduino FT232R、 Microduino Core、 Microduino SD;
- Software needs to be prepared: The testing programs (Arduino end) Microduino provides, Arduino IDE (Version 1.0 and above) and SD library;
- Put the downloaded library files into the libraries in Arduino IDE installation folder;
- Start Arduino IED, open the testing programs that Microduino provides, the board card choose Microduino Core (Atmega328P@16M,5V), and directly download;
- A total of four pieces, which can be checked coordinated with OLED (if you have not an OLED, you can use a serial port monitor to check) :
 - Whether CS pins can match it.
 - Write data to SD card;
 - Read the data of the specified files in SD;
 - Remove the specified files in SD card.