



深圳市艾尔赛科技有限公司
Shenzhen LC Technology Co., Ltd.

LC STM32 10-way ADC module

LC-ADC-F103C8

USB interface 10 channel 12Bit ADC data acquisition

STM32 UART communication ADC module

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2017-06



1. Overview

LC STM32 10-channel ADC module uses the internal 10-channel ADC resources of ST's STM32F103 family of microcontrollers as the sampling core. Having better accuracy and the ADC data can be uploaded to PC.

2. Introduced the hardware and instructions

- 1, Onboard STM32F103C8T6 master chip;
- 2, Onboard CH340 serial port to USB port chip, it is convenient to see AD sampling results on your PC;
- 3, Reserved UART serial communication interface, can be connected to extern MCU;
- 4, Analog input channels: 10-channel single-ended inputs;
- 5, Sampling voltage input range: 0-3.3V;
- 6, Power supply voltage: 5V / 3.3V
- 7, Resolution: 12 Bit (4096);

3. Introduced the hardware and instructions

Board size: 50*33mm

Functions of the board:

1, interface description:

IN0-IN9: AD sampling voltage input;

GND: power supply negative / sampling voltage common ground interface;

TX, RX: UART communication interface

3V3 / 5V: reserved 3.3V / 5V power input port

2, Testing example: when IN0-IN4 connect to 0V and IN5-IN9 connect to 3.3V, we can see as below:



3, Kindly remind

- (1) We will offer source code to you, so you can modify it accord your personal requirements
- (2) The range of sampling voltage is 0-3.3V, please do not exceed this range



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