

# ADC HAT

SKU:U069



## Description

**ADC HAT** is another type of C-HAT specifically design for M5StickC controller. Same as ADC unit, this is an ADC converter component for stickc. Packed with an ADC converter chip ADS1100, which is a fully differential, 16-bit, self-calibrating, delta-sigma A/D converter. Extremely easy to design with and configure, the ADS1100 allows you to obtain precise measurements with a minimum of effort. The ADS1100 consists of a delta-sigma A/D converter core with adjustable gain, a clock generator, and an I2C interface. ADS1100 itself is able to accept a differential input from -5 ~ +5 V, but we have limited the input to 0~12V by adding on the peripheral circuit design of this IC.

## Product Features

- Input: 0-12V
- Software Development Platform: Arduino, UIFlow(Blockly, Python)
- ADS1100
  - 16-bits Resolution
  - CONTINUOUS SELF-CALIBRATION
  - SINGLE-CYCLE CONVERSION
  - PROGRAMMABLE GAIN AMPLIFIER GAIN = 1, 2, 4, OR 8
  - LOW NOISE: 4μVp-p
  - PROGRAMMABLE DATA RATE: 8SPS to 128SPS
  - INTERNAL SYSTEM CLOCK
  - I2C INTERFACE: address 0x48

## Include

- 1x ADC HAT
- 1x 2 Pin 3.96 Pitch Terminal

## Applications

## Specification

Resources	Parameter
Net weight	6g
Gross weight	14g
Product Size	24*25*13mm
Package Size	40*42*30mm

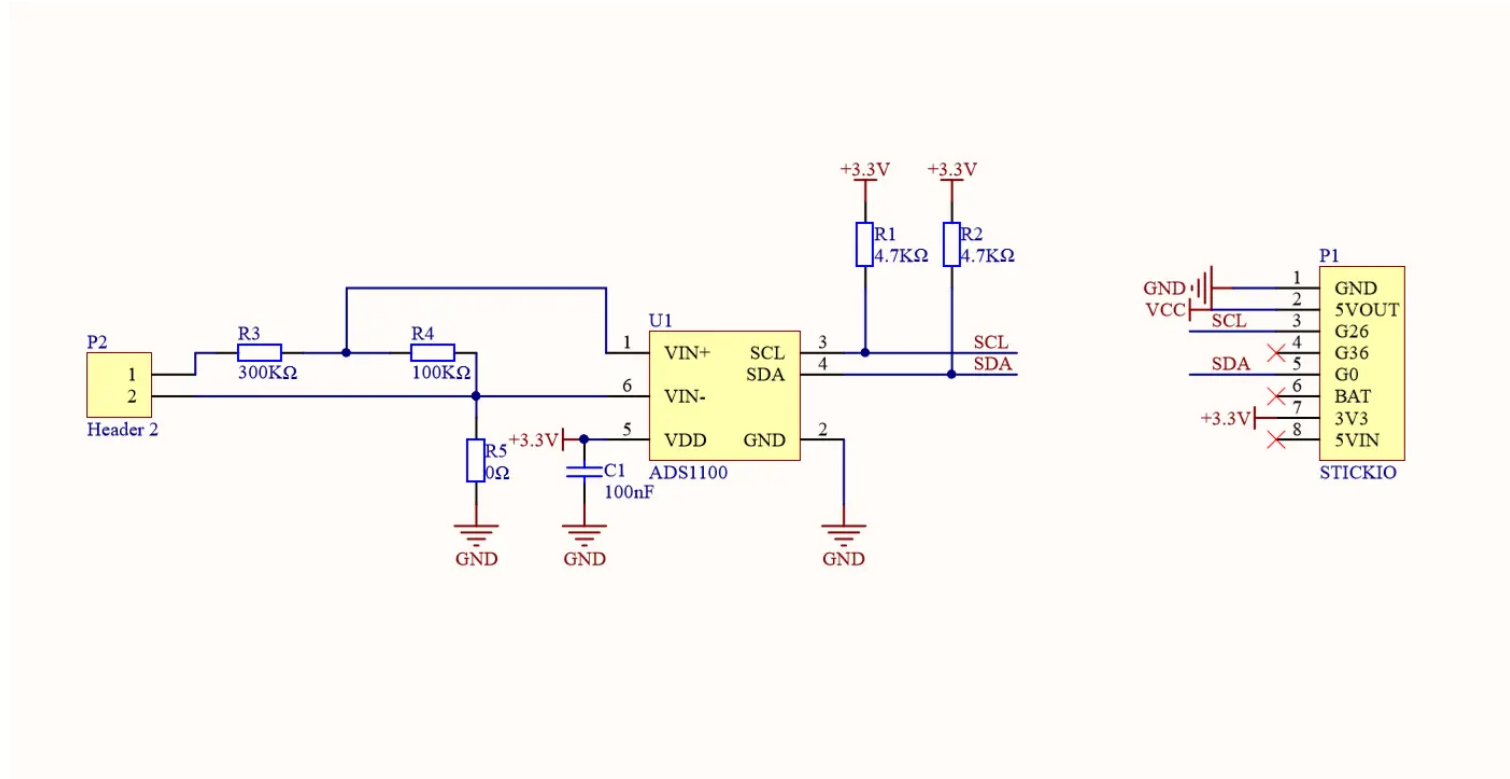
## Related Link

◦ [Datasheet](#) - [ADS1100](#)

## Pin Map

M5StickC	GPIO0	GPIO26	5V	GND
HAT ADC	SDA	SCL	5V	GND

## Schematic



## EasyLoader





[download EasyLoader](#)

1.EasyLoader is a simple and fast program burner. Every product page in EasyLoader provides a product-related case program. It can be burned to the master through simple steps, and a series of function verification can be performed.

- After downloading the software, double-click to run the application, connect the M5 device to the computer through the data cable, select the port parameters, click "**Burn**" to start burning. (**For M5StickC burning, please Set the baud rate to 750000 or 115200**)

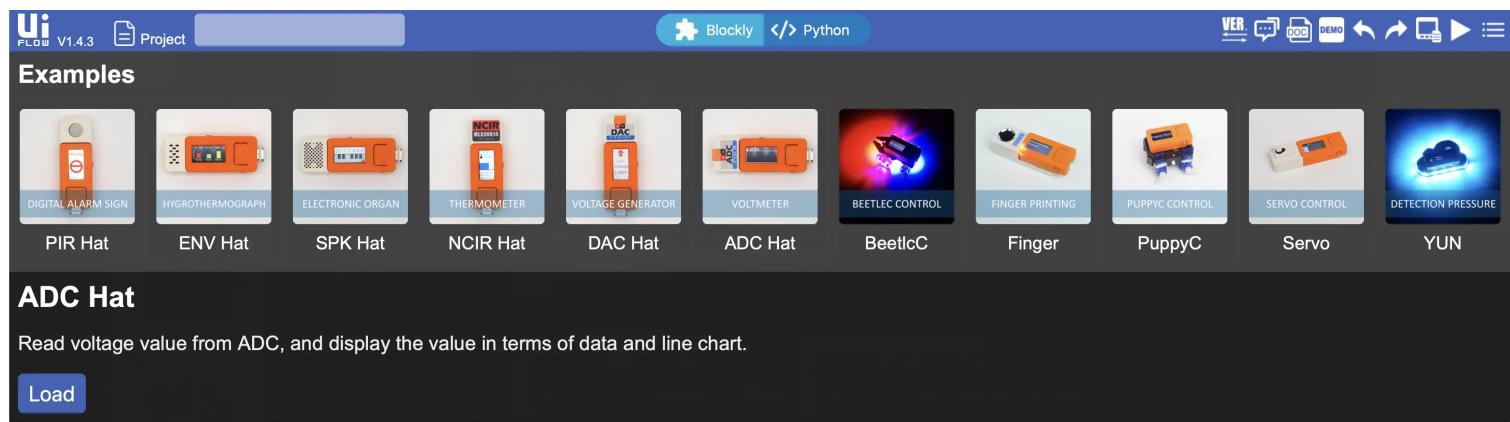
## Example

### 1. Arduino

- [Click here to download the Arduino example](#)

### 2. UIFlow

Open <http://flow.m5stack.com> and Load Demo



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