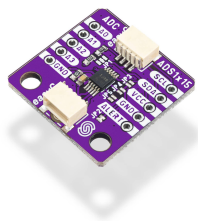


PRODUCT DATASHEET



ADC 12-bit ADS1015 4-Channel With PGA Breakout

333094

The ADS1015 ADC converts analog signals to 12-bit digital with 4 channels, ideal for microcontroller projects.

Full product documentation, files and tutorials: solde.red/333094

CORE ATTRIBUTES

SKU **333094**

WEIGHT **5 g**

BARCODE **732388668700**

DESCRIPTION

ADC (Analog Digital Converter) is a device that reads analog signals (just like the `analogRead()` function in Arduino IDE) and converts them into digital signals that can be read by a microcontroller. This breakout is based on the ADS1015 ADC, which reads values in 12-bit resolution, receives a maximum of 3.3V on its inputs and has a total of 4 channels (which can also be used as two differential). Works great with any microcontroller at 5V. It has 2 Qwiic connectors for easier connection on I2C communication.

TECHNICAL DETAILS

- **Voltage:** 3.3V
- **Resolution:** 12-bit
- **Number of channels:** 4
- I2C communication
- **Dimensions:** 22 × 22 mm / 0.9 × 0.9 inch

SPECIFICATIONS

INTERFACE	I2C
QWIIC COMPATIBLE	Yes
I2C ADDRESS DEFAULT	0x48
I2C ADDRESS CHANGEABLE	Yes
BREADBOARD COMPATIBLE	Yes
MEASUREMENT TYPES	Voltage

MEASUREMENT ACCURACY	12-bit ADC resolution
IC PART NUMBER	ADS1015
SUPPLY VOLTAGE MIN V	3.3
SUPPLY VOLTAGE MAX V	3.3
LOGIC LEVEL	3V3 Only
OPERATING CURRENT (MA)	0.15 mA

LINKS

Arduino Library	https://github.com/SolderedElectronics/Soldered-ADS1015-ADS1115-ADC-Arduino-Library
Open Source Hardware Files	https://github.com/SolderedElectronics/ADC-12-bit-ADS1015-4-channel-with-PGA-breakout-hardware-design
Full Documentation	https://docs.soldered.com/adc/overview/
Arduino: Get Started	https://docs.soldered.com/ltr-507/arduino/getting-started/
Hardware Details	https://docs.soldered.com/adc/hardware/
Arduino Library Documentation	https://docs.soldered.com/adc/arduino/init-and-simple-read/
Pinout	https://cms.soldered.com/products/333094/media/333094_pinout-png_9f7f92.jpg

GALLERY

