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# ADS1115 16-Bit ADC - 4 Channel with Programmable Gain Amplifier

PRODUCT ID: 1085

## $14.95
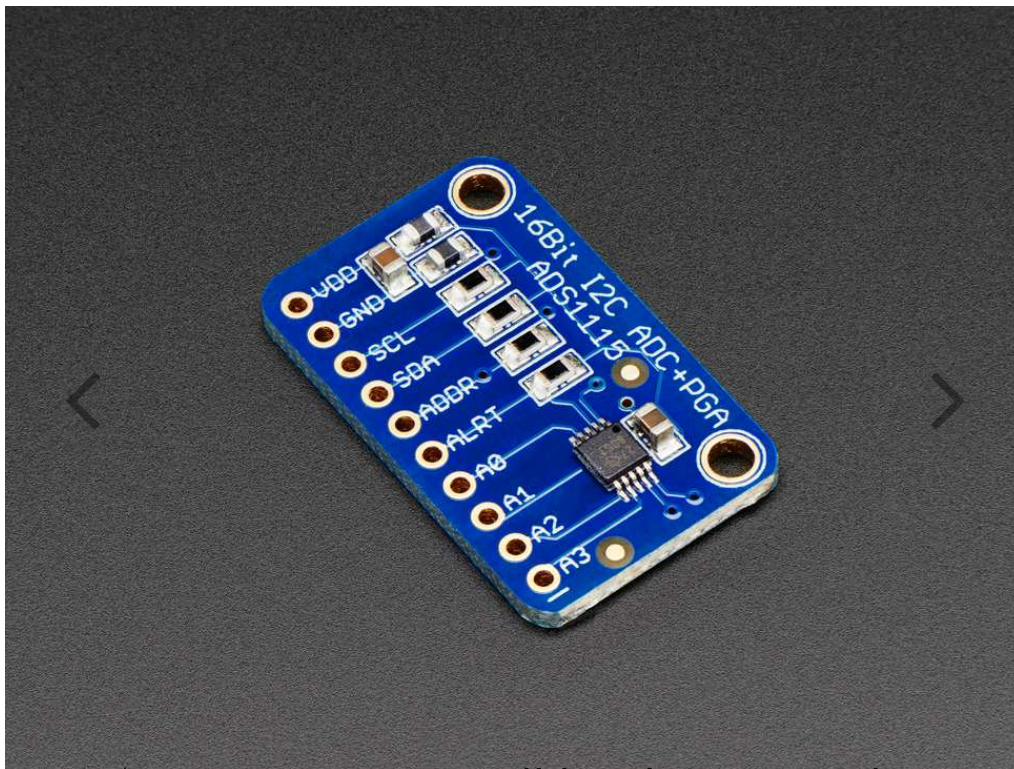


"Do well by doing good"
- Benjamin Franklin (http://en.wikipedia.org /wiki/Benjamin_Franklin)

| QTY | DISCOUNT |
| --- | --- |
| 1-9 | $14.95 |
| 10-99 | $13.46 |
| 100+ | $11.96 |

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## DESCRIPTION

For microcontrollers without an analog-to-digital converter or when you want a higher-precision ADC, the ADS1115 provides 16-bit precision at 860 samples/second over I2C. The chip can be configured as 4 single-ended input channels, or two differential channels. As a nice bonus, it even includes a programmable gain amplifier, up to x16, to help boost up smaller single/differential signals to the full range. We like this ADC because it can run from 2V to 5V power/logic, can measure a large range of signals and its super easy to use. It is a great general purpose 16 bit converter.

The chip's fairly small so it comes on a breakout board with ferrites to keep the AVDD and AGND quiet. Interfacing is done via I2C. The address can be changed to one of four options (see the datasheet table 5) so you can have up to 4 ADS1115's connected on a single 2-wire I2C bus for 16 single ended inputs.

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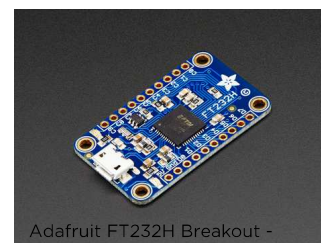Stereo 2.8W Class D Audio (/products/1712)

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