

Pulsed Radar Breakout - A111

SEN-16826

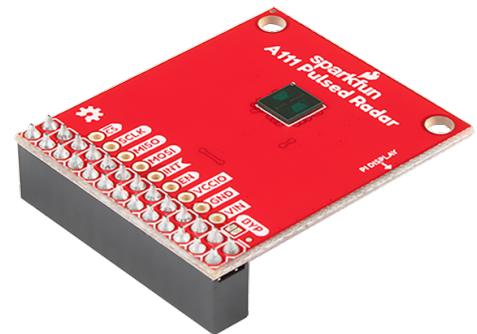
Product Overview

09/15/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun Pulsed Radar Breakout - A111 is a single-chip solution for Pulsed Coherent Radar (PCR) that comes with an integrated antenna, and an SPI interface capable of clock speeds up to 50MHz. This A111 breakout board is ideal for projects that require high-precision, cutting-edge distance measurement, speed motion detection up to 2m, and gesture sensing. The pulsed radar breakout features a 1.8V regulator and voltage-level translation, and it breaks out all the pins of the pulsed radar sensor to both 0.1inch and Raspberry Pi-friendly headers. The A111 breakout is designed to sit directly on top of a Raspberry Pi, but only the 26-pin (2x13) header is compatible with any Pi.



Features

- 60GHz Pulsed Coherent Radar (PCR) sensor
- Integrated antenna
- Measurement distance up to 2m
- Accuracy down to mm-range
- SPI interface up to 50MHz SPI clock support
- All SPI pins broken out
- On-board 1.8V voltage regulator
- 1.8V level translation to any voltage between 1.8V to 5V
- Bypass jumper

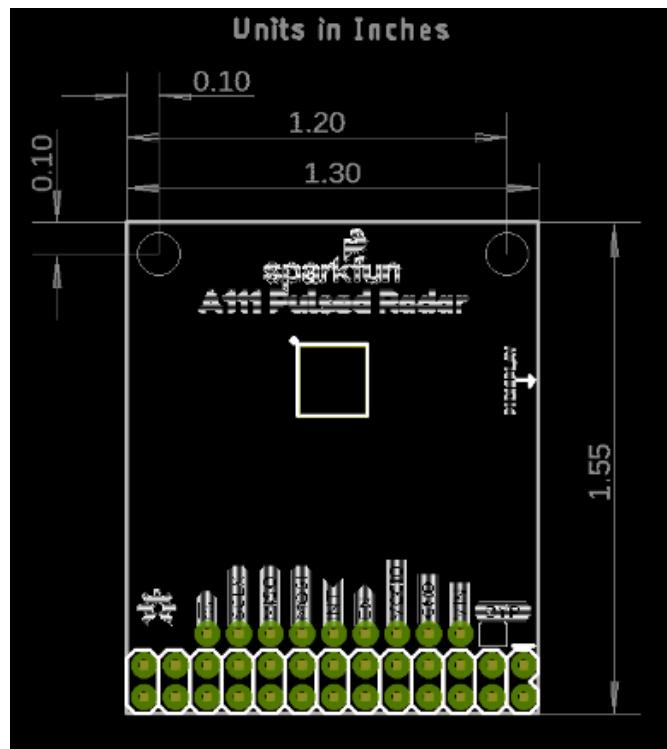
Kit Contents

- 1 x Pulsed Radar Breakout Board - A111
- 1 x Female header - 26-pin (2 x 13)

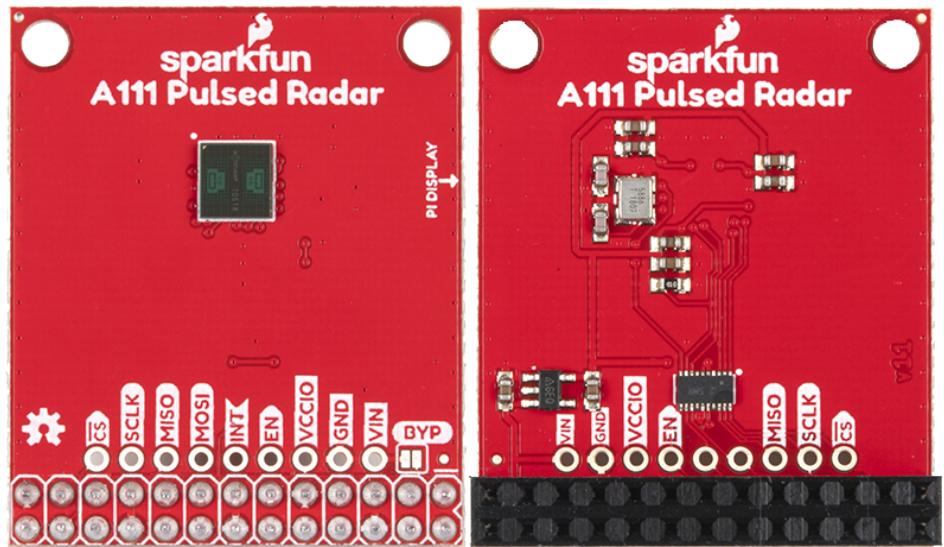
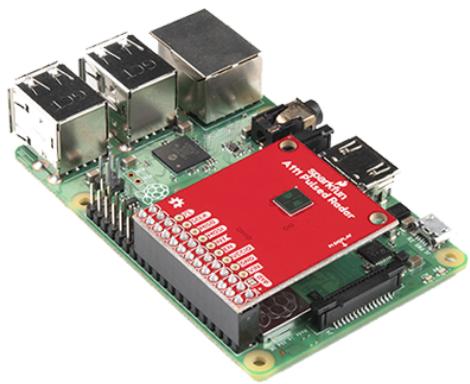
Additional Resource

- [Schematic Diagram](#)

Mechanical Dimension



Board Overview



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-sen-16826-pulsed-radar-breakout/>