



## SparkFun Pulsed Radar Breakout - A111

SEN-15577

### DESCRIPTION

Does your project require high-precision, cutting-edge distance measurement? Or maybe speed, motion, or gesture-sensing? We're not talking about simple ultrasonic or even infrared here, but 60GHz radar! Well say hello to the SparkFun A111 Pulsed Radar Breakout! The A111 is a single-chip solution for pulsed coherent radar (PCR) and comes complete with an integrated antenna and an SPI interface capable of clock speeds of up to 50MHz. Though the A111's primary use case is distance-sensing, it also supports applications in gesture, motion, material, and speed-detection at distances of up to two meters.

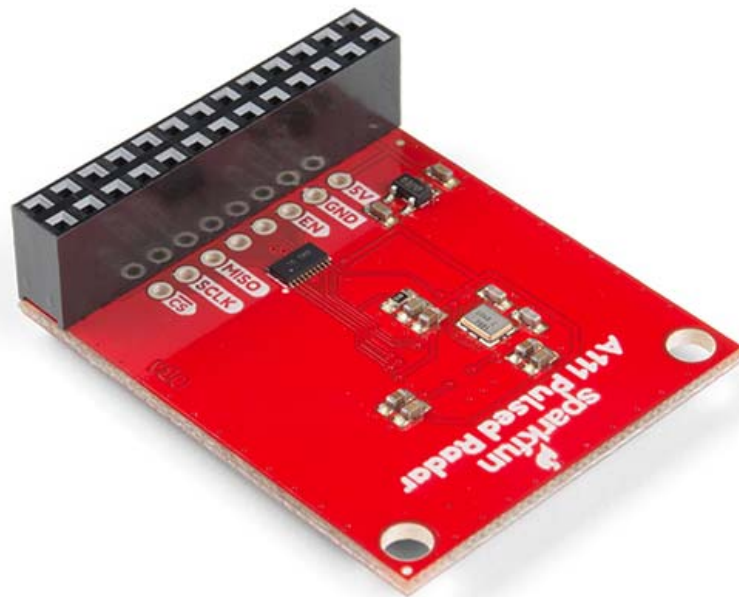
SparkFun Pulsed Radar Breakout for the A111 includes a 1.8V regulator, voltage-level translation, and it breaks out all the pins of the pulsed radar sensor to both 0.1-inch and Raspberry Pi-friendly headers. The Pulsed Radar Breakout is designed to sit directly on top of a Raspberry Pi but it doesn't span all 40 (2x20) pins of a Raspberry Pi B+ (or later), but the 26-pin -- 2x13 -- header should be compatible with any Pi. However, we have intentionally left the 2x13 header separated from the breakout in case you wanted to manually wire it to another an ARMv7 or ARM Cortex-M4 platform (since the closed-source A111 SDK currently only supports these architectures).

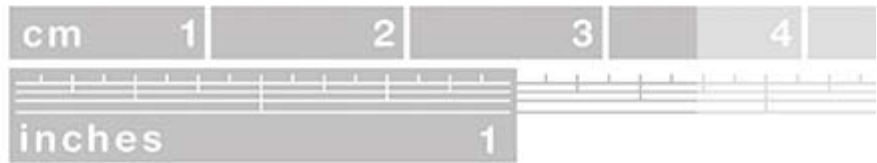
### INCLUDES

- 1x SparkFun Pulsed Radar Breakout Board - A111
- 1x Female Header - 26-pin (2x13)

## FEATURES

- 60 GHz 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 regulator
- 1.8V level translation to any voltage between 1.8V-5V





<https://www.sparkfun.com/products/15577/10-8-19>