



## mmWave Radar Sensor

**SEN0395** 

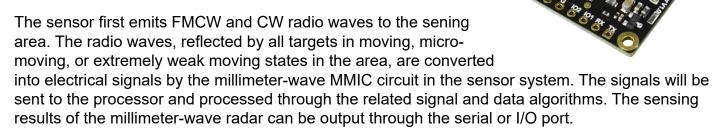
#### **Product Overview**

12/29/2022

For the most up-to-date information, visit <a href="https://www.mouser.com">www.mouser.com</a> or the supplier's website.

### **Description**

DFRobot SEN0395 mmWave Radar Sensor senses the human presence, stationery, and moving people within the detection range of 9m. This 24GHz millimeter-wave radar sensor employs a separate transmitter and receiver antenna structure, Frequency-Modulated Continuous Wave (FMCW), and Continuous Wave (CW) multi-mode modulation.



The mmWave sensor module features strong sensing reliability, high sensitivity, small size, easy to use, and easy-to-embed integration. This sensor also features a 3.6V to 5V power supply range, 90mA operating current, 9m detection distance, and 115200 Baud rate.

#### **Features**

- Human presence sensing:
  - Sense if there is a human body in areas
  - I/O port switch quantity input and output control
- Modulation mode:
  - FMCW and CW
- Serial port input and output control
- Strong anti-interference ability and not to be affected by snow, haze, temperature, humidity, dust, light, and noise

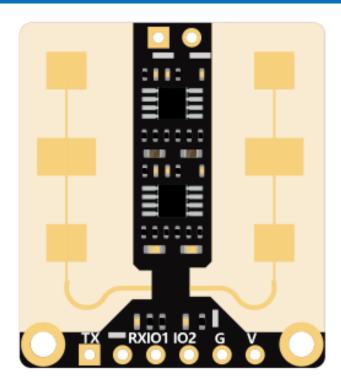


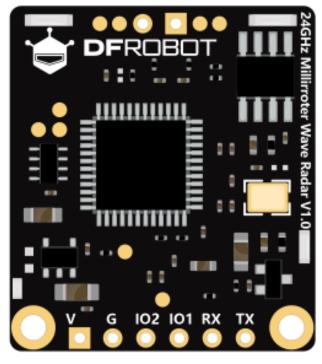


## **Specifications**

- 90mA operating current
- 3.6V to 5V operating voltage range
- -40°C to 85°C operating temperature range
- 9mm detection distance range
- 115200 Baud rate
- 24GHz operating frequency
- 13dBm to 15dBm equivalent transmit power range
- 100°x40° beam angle
- 24mm x 28mm dimension

### **Board Overviewv**

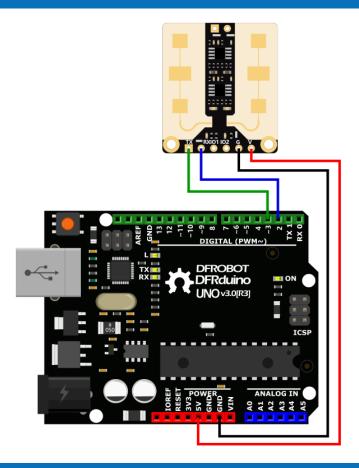








# Circuit Diagram



### **Mouser Part Number**

#### View Part

To learn more, visit <a href="https://www.mouser.com/new/dfrobot/dfrobot-sen0395-mmwave-radar-sensor/">https://www.mouser.com/new/dfrobot/dfrobot-sen0395-mmwave-radar-sensor/</a>