

OmniPreSense's OPS243 is complete short-range radar (SRR) solution providing motion detection, speed, direction, and range reporting. All radar signal processing is done on board and a simple API reports the processed data. Flexible control over the reporting format, sample rate, and module power level is provided. The OPS243 carries FCC/IC modular approval, simplifying development and regulatory certifications for production release.

The OPS243 sensor outputs data over USB, UART, RS-232, or WiFi interfaces for simple connection to any embedded processor (Arduino, Raspberry Pi, PC) or directly to the cloud via WiFi.

Features

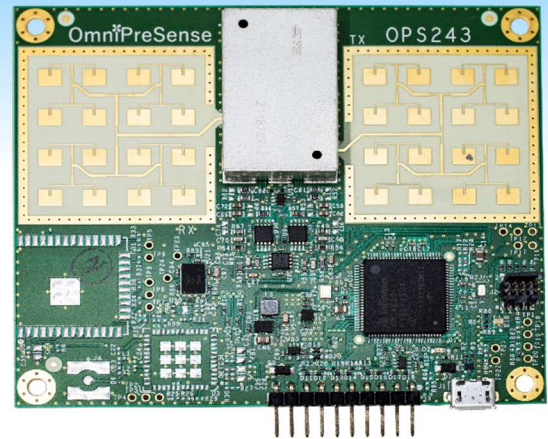
- 1-100m (3-328') detection range
- Speed reporting up to 348mph
- Direction reporting (Inbound/Outbound)
- Range reporting up to 60m (197')
- Narrow 20x24° beam width (-3 dB)
- Simple, flexible API with object counting
- USB, UART, RS-232 interface
- WiFi/Bluetooth communication to cloud
- FCC/IC modular approval
- Industrial temp operation (-40 to +85°C)
- 1.7W Active or <0.2W Hibernate power
- Smaller form factor 75 x 90 x 12 mm, 15g

Applications

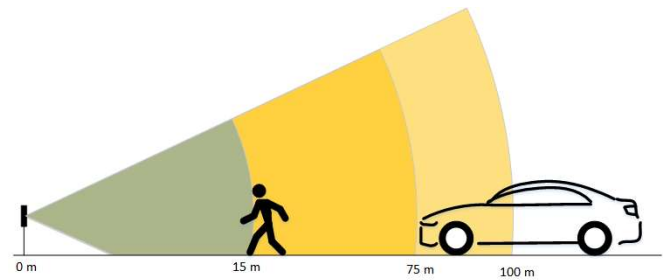
- Smart City
- Robotics/Drones

Functionality

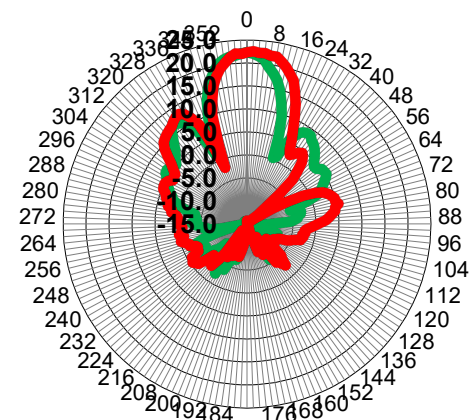
- Traffic Monitoring
 - Presence Detection
 - Speed/Direction Reporting
- www.omnipresense.com



OPS243 Sensor



OPS243 Detection Range



Antenna Pattern

Part Number	Motion	Direction	Speed	Range
OPS243-A	•	•	•	
OPS243-C	•	•	•	•

OPS-PB-004-E

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