

OmniPreSense OPS243 Short-Range Radar

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 and UART for simple connection to Arduino, Raspberry Pi, PC, or any embedded processor. Future updates will support wireless communication over WiFi/BLE or LoRaWAN.

Features

- 1-100m (3-328') detection range
- Speed reporting up to 348mph
- Direction reporting (Inbound/Outbound)
- Range reporting up to 60m (197')
- Simple object counting mode
- Narrow 20° beam width (-3 dB)
- Simple API control over USB and UART
- FCC/IC modular approval
- Industrial temp operation (-40 to +85°C)
- 1.5-1.7W Active power, 0.7W Idle power
- Smaller form factor 75 x 90 x 12 mm, 15g

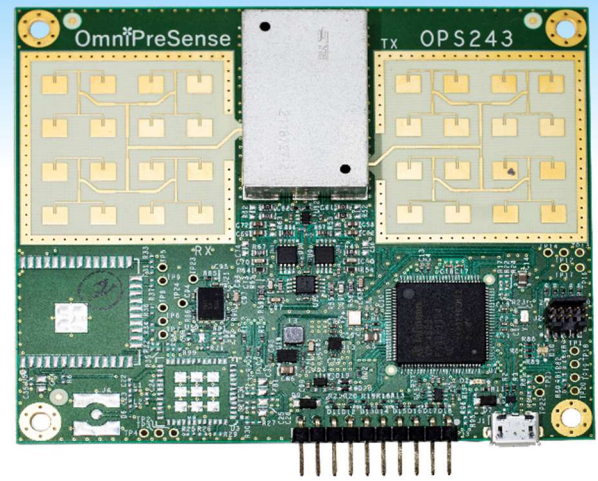
Applications

- Smart City
- Robotics/Drones

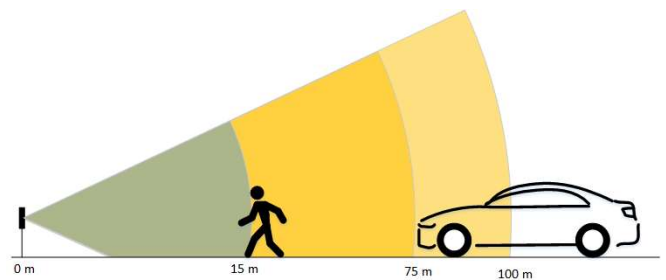
Functionality

- Traffic Monitoring
- Presence Detection
- Speed/Direction Reporting

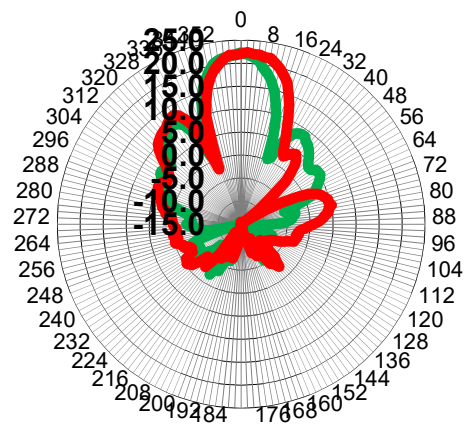
www.omnipresense.com



OPS243 Sensor



OPS243 Detection Range



Antenna Pattern

Part Number	Motion	Direction	Speed	Range
OPS243-A-CW-RP	•	•	•	•
OPS243-C-FC-RP	•	•	•	•

OPS-PB-004-C