

OmniPreSense OPS243 Short-Range Radar

OmniPreSense's OPS243 is complete short-range radar (SRR) solution providing motion detection, speed, and direction 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 levels are provided. The OPS243 carries FCC/IC modular approval, simplifying development and regulatory certifications for production release.

The OPS243 module can be connected to any Smart USB host (Raspberry Pi, Android device supporting OTG, PC or Mac). Additional processing and/or communication to the cloud can be performed for further data analysis or networked action.

Features

- 1-100m (3-328') detection range
- Speed reporting up to 348mph
- Direction reporting (Inbound/Outbound)
- 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)
- 1.5W Active power, 0.7W Idle power
- Smaller form factor 75 x 90 x 12 mm, 15g

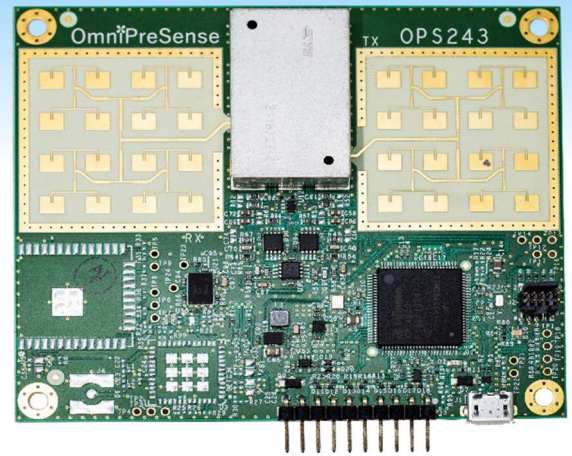
Applications

- Smart City
- Robotics/Drones

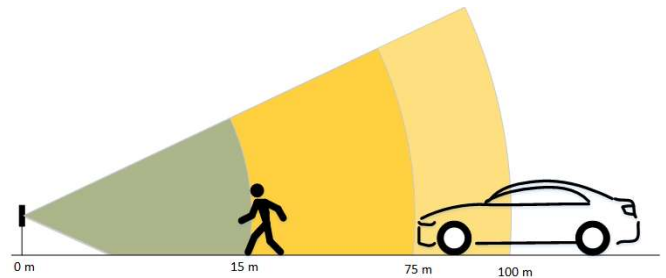
Functionality

- Traffic Monitoring
- Presence Detection
- Speed/Direction Reporting

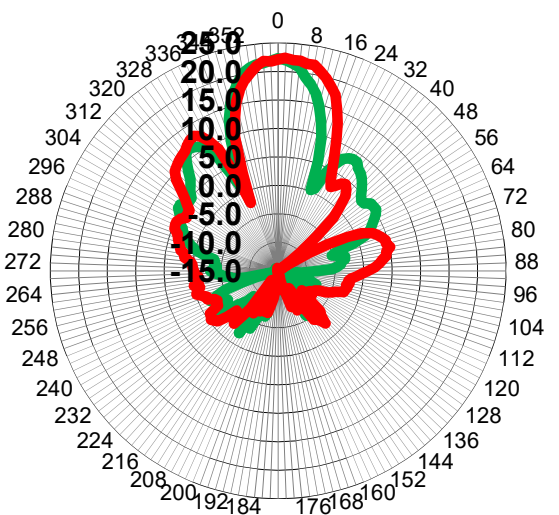
www.omnipresense.com



OPS243 Sensor



OPS243 Detection Range



Antenna Pattern

Order Part Number

OPS243-A-CW-RP radar sensor module

OPS-PB-004-A