

# ASPER200 79GHz Radar



**180°**  
FIELD OF VIEW

**<5cm**  
MIN RANGE

**15-100m**  
MAX RANGE

**~79GHz**  
FREQUENCY BAND

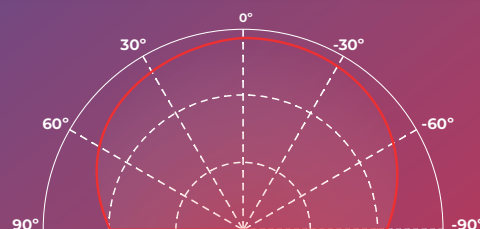
**12-24V**  
SUPPLY VOLTAGE

**CUSTOMIZABLE  
MOUNTING  
HARDWARE**

**OPTIONAL EDGE  
PROCESSING**

**-40° TO +85°C**  
OPERATING  
TEMPERATURES

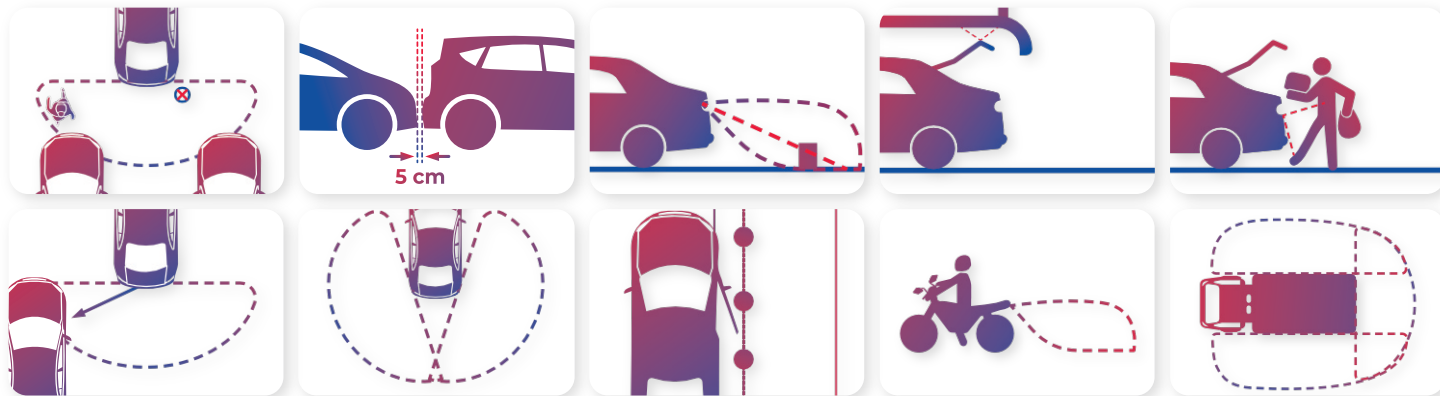
**WIRELESS  
CONNECTIVITY  
ENABLED**



## Overview

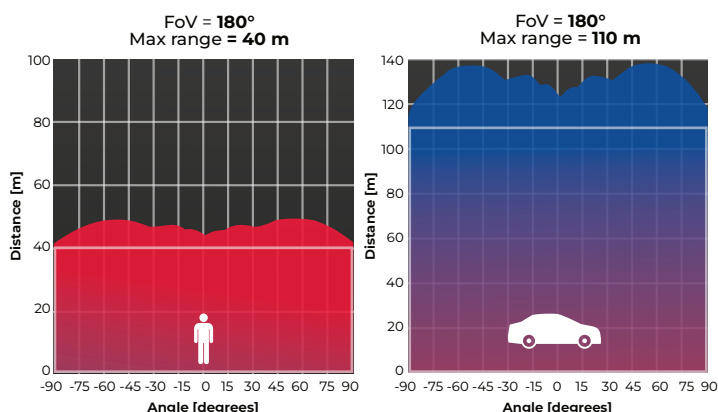
The latest generation of NOVELIC radar modules covers a field of view (FoV) of **180 degrees**, using a single radar chip - allowing for one sensor to cover an entire side of the vehicle with a single module, while being small and affordable, and enabling additional functionality.

This 79 GHz short-range exterior radar sensor addresses passenger vehicles, commercial vehicles, motorcycles, transportation and construction vehicles, in **two configurations**: an affordable direct replacement of ultrasonic parking sensors, and a more full-featured configuration, with a variety of add-on applications. Edge computing can enable the use of a simple CAN interface (optional Ethernet), as a simple, ready-to-use affordable solution for different market segments.



## Applications

- **Park assist**, fully replacing and outperforming sets of ultrasonic sensors with a single module, enabling parking below 5cm, with **low height object detection**
- Kick-to-open & gesture recognition
- 180° FoV awareness up to 100m, with object classification
- Lateral sensor for any type of vehicle
- Power door & tailgate protection sensor, with gesture control
- Front & rear sensor for two-wheelers, with optional wireless connectivity



**-7.5 dBsm - Humans**  
**10 dBsm - Automobiles**