



Automated Parking

Parking automation is a critical component of Aptiv’s Gen 6 ADAS platform. The parking features described here build on Aptiv’s deep experience developing and manufacturing industry-leading automated driving and automotive radar systems.



SYSTEM

- Integrated into Gen 6 ADAS platform
- Software deployable on different hardware platforms, SoCs
- Scalable architecture that works with the sensor set in the vehicle



FEATURES

- Automated Parking Assist
- Memory Park Assist
- Park Distance Warning
- Low-Speed AEB
- Reverse Assist
- Remote Park Assist
- Smart Summon
- Surround View



VISION SENSORS

- Supports up to 4 HD cameras
- Detects parking spot markings on floor, in different colors
- Works with large variety of line types
- Works in low light conditions
- Performs object classification (vehicles, two-wheelers, pedestrians, static objects)



RADAR SENSORS

- Supports up to 5 radars



ULTRASONIC SENSORS

- Supports up to 12 ultrasonic sensors



CAPABILITIES ACROSS FEATURES

- Parking in-and-out capability
- Parking between two vehicles (no floor markings needed)
- Parking in free space (floor markings needed)
- 360° field of view coverage



OBSTACLE DETECTION AND CLASSIFICATION

- Movable objects (parked and moving cars, trucks, buses, shopping carts, etc.)
- Static obstacles (poles, curbs, walls, etc.)
- Vulnerable road users (motorcycles, bicycles, pedestrians, etc.)



HIGH AVAILABILITY

- Works with large variety of parking lot lines
- Accurate parking space detection
- 360° field of view coverage
- Low light capable



HIGH ACCURACY

- Fusion of multiple sensors for more accurate functionality
- Object detection and classification
- Neural network for extended object detection



SURROUND VIEW MODES

- Overlays (e.g. reversing trajectory, detections)
- 360° Surround View mode
- Bird's Eye View
- Bowl View (dynamic virtual viewing angle)
- Glass Bottom View
- Curbstone View

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