



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

- Auto Parking Assist: Parallel (0°), perpendicular (90°) and fishbone (45°) parking
- Memory Park Assist
- Auto Valet Parking
- 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

	ADDITIONAL FEATURES	<ul style="list-style-type: none"> • Remote Parking Assist • Low Speed Automatic Emergency Braking • Trailer Reverse Assist (planned) • Narrow Space Assist (planned) • Reverse Assist (planned)
	CAPABILITIES ACROSS FEATURES	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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		HIGH ACCURACY
	<ul style="list-style-type: none"> • Works with large variety of parking lot lines • Accurate parking space detection • 360° field of view coverage • Low light capable 		<ul style="list-style-type: none"> • 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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