

# Gen 6 ADAS Platform

AN INTELLIGENT DRIVING EXPERIENCE

Aptiv believes that advanced safety features should be available in as many vehicles as possible. Aptiv's Gen 6 ADAS platform is open, scalable and optimized at the system level to deliver industry-leading performance while democratizing ADAS solutions as they mature.

There are four primary variants of the ADAS platform – Core, Plus, Pro and Ultra – that meet the requirements of vehicles ranging from entry-level to premium. But even within that framework, the platform has extraordinary flexibility, supporting different SoC and architectural configurations, software and hardware updates, and OCI-compliant containers that enable software to run on the most suitable device. And the platform is always evolving, as Aptiv's deep understanding of global regulatory requirements and rating agency roadmaps ensures the platform is ideally suited to current and future ADAS needs.



Aptiv's Gen 6 ADAS platform is available both as a turnkey solution and as individual components. Our intelligent approach to the full system results in up to 25% lower cost and 60% lower energy consumption than typical alternatives – but each piece of the platform is designed to add value to any ADAS configuration.

# Why Choose Aptiv's ADAS Platform?



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Aptiv

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## A Complete ADAS Approach

SOLUTIONS FOR EVERY NEED

Aptiv's Gen 6 ADAS platform is a comprehensive ADAS solution spanning software, compute and sensing and perception capabilities. It was designed with several key principles in mind:



### Scalability

Our software and hardware architecture efficiently scales across automation levels, from entry-level (L0) to premium hands-off / eyes-off operation (L3).



### Flexibility

Aptiv's open, developer-friendly platform with well-defined interfaces enables OEMs to tailor the system and add value.



### System Availability

The platform leverages radars and cameras for their individual strengths and then enhances them through AI/ML – which maximizes system availability across driving conditions.



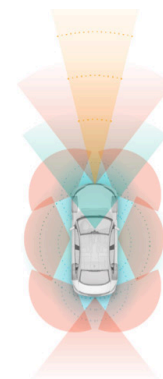
### System-Level Optimization

Aptiv's full-system capabilities enable us to take a system-level view to reduce complexity and risk and increase efficiency.



### Resilience

Our solutions can evolve throughout a vehicle's complete life cycle for greater consumer satisfaction.

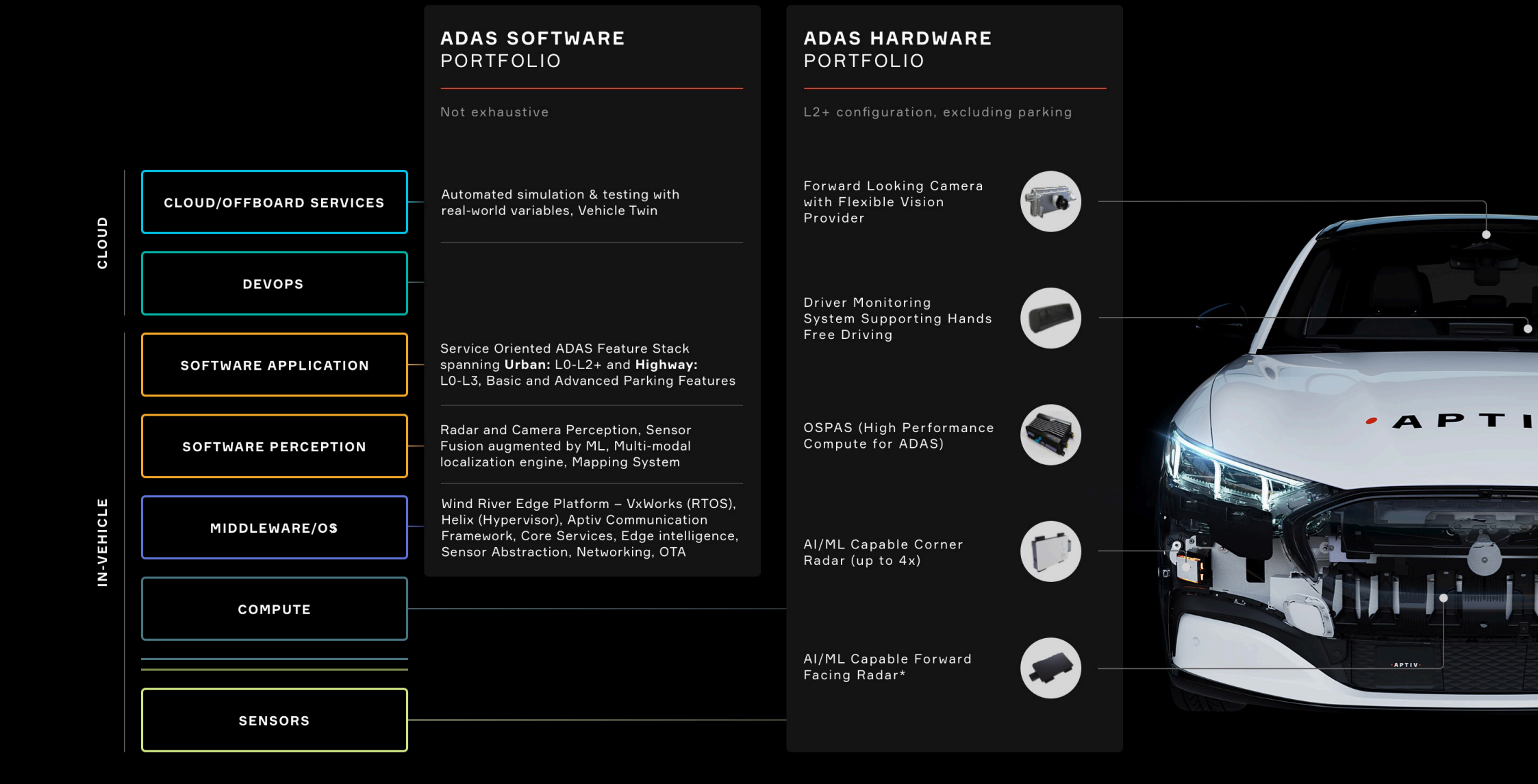
**ULTRA**

**5 Star**

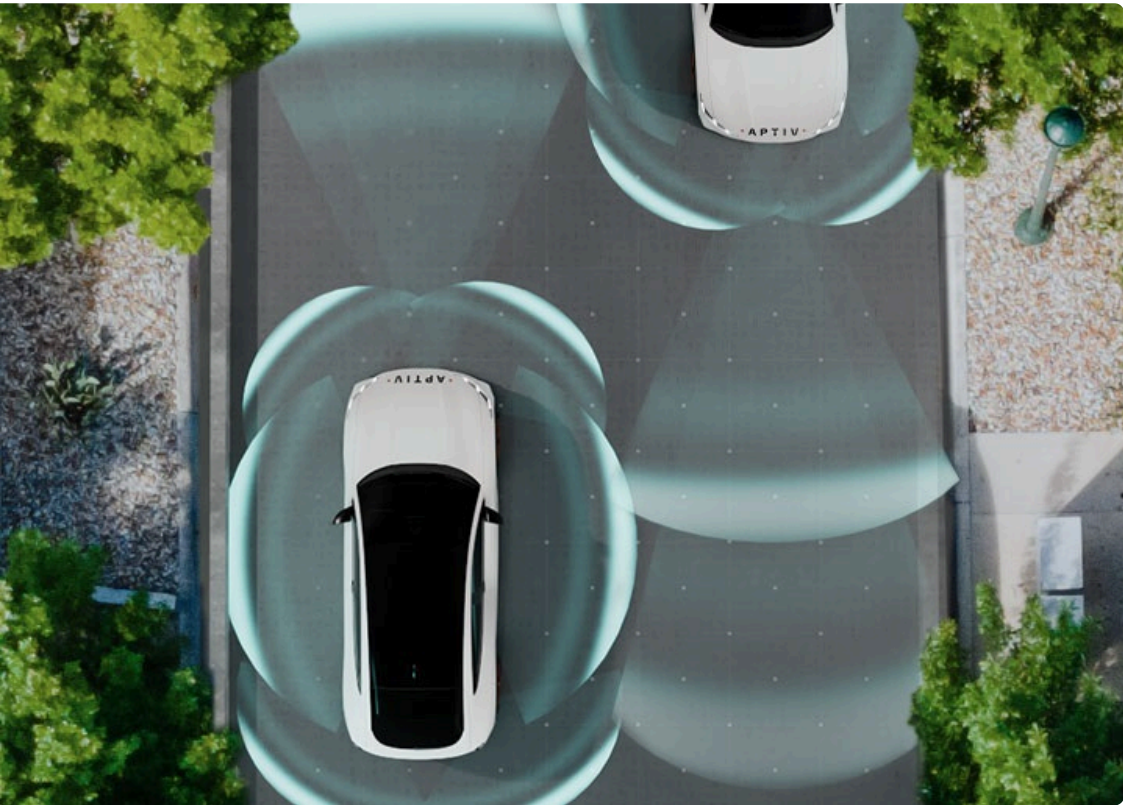
L0-L3/L4 Parking

# Gen 6 ADAS Platform Overview

LEVERAGING RADAR, AI/ML, AND SYSTEM EXPERTISE TO DELIVER PROVEN PERFORMANCE



\*Note: L3 configuration includes a LiDAR, parking includes surround view camera hardware



# ADAS Software

ADAS IN THE AGE OF THE SOFTWARE-DEFINED VEHICLE

From highway to urban scenarios, Aptiv’s Hands-Off Assist software provides an array of advanced safety and comfort features flexibly across four major variants: Core, Plus, Pro and Ultra.

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# ADAS Compute

Aptiv's approach to building high-performance compute to support ADAS features ensures scalability, supply chain flexibility, and upgradeability over the lifetime of the vehicle.

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# Sensing & Perception

Aptiv understands how to leverage different ADAS sensors for their strengths and then bring that sensing data together in a perception system that provides a comprehensive view of the world around the vehicle.

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# A Rich Heritage

Aptiv has a proven track record of commercializing some of the industry's most advanced ADAS programs on a global basis. A few highlights:

- Aptiv's fifth-generation Satellite Architecture has been deployed by multiple OEMs around the world on millions of vehicles since 2021.



- Aptiv is one of the only technology providers to deliver turnkey hands-free driving solutions while also supporting significant portions of the stack for L2+ systems.
- Aptiv has more than 25 years of experience, having commercialized the area with the industry's first automotive radar in 1999.
- Aptiv has extensive ASIL-D experience and is capable of designing, developing and validating perception systems to ISO26262 safety standards.

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## [Webinar On Demand] Aptiv's ADAS: Enabling an Intelligent Driving Experience



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