

The NVIDIA DRIVE™ autonomous vehicle (AV) platform is a full-stack solution for highly automated, supervised driving through fully autonomous operation. It includes active safety, automated driving and parking—plus AI cockpit capabilities—scaling from Level 2+ to Level 5.

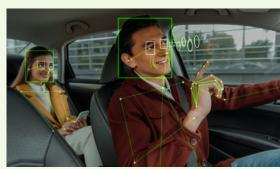
SYSTEM HARDWARE AND ARCHITECTURE:

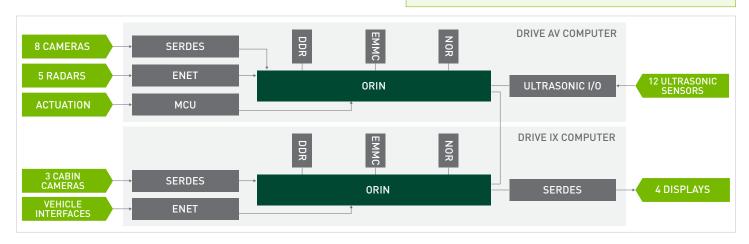
NVIDIA® Orin™ SoC:

- > Integrated next-generation GPU architecture and Arm CA78-AE CPU cores
- $\scriptstyle > 254\,TOPS$ more than 8x the performance of the previousgeneration SoC
- > Adherence to systematic safety standards such as ISO 26262 ASIL-D
- > Architecture scales from ADAS to Level 5

The NVIDIA DRIVE Level 2+ solution is powered by two NVIDIA Orin™ systems-on-a-chip—one for active safety, automated driving, and parking applications, and one for AI cockpit capabilities. It also includes the NVIDIA DRIVE Hyperion™ sensor suite for developers to evaluate their AV platform. DRIVE Hyperion includes:

- > Eight cameras, five radars, and twelve ultrasonic sensors that interpret scenes with 360-degree awareness to produce a comprehensive environmental model.
- > Three interior sensing cameras for driver and occupant monitoring.



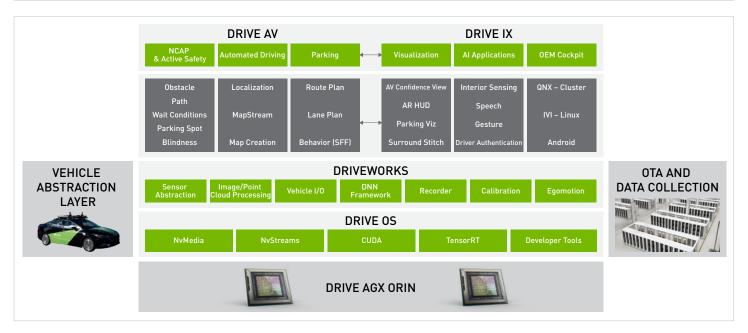


NVIDIA DRIVE SOFTWARE

The NVIDIA DRIVE Software stack is a complete solution to build and deploy state-of-the-art AV applications, including: perception, localization, mapping, planning and control, driver monitoring, and natural language processing. It includes the NVIDIA DRIVE OS safe operating system for accelerated computing and the NVIDIA DriveWorks SDK for comprehensive middleware functions. NVIDIA DRIVE AV and DRIVE IX stacks provide the DNNs and advanced algorithmic modules for perception, mapping, and planning—including NVIDIA Safety Force Field™—as well as intelligent cockpit capabilities.

SUPPORTED FEATURES:

| Active Safety | Highway Driving | Urban Driving and Parking | Cockpit |
|--|---|--|--|
| Automatic Emergency Braking Road Lane Departure Mitigation Speed Limit Information Speed Limitation Traffic Light Assist Reversing Assist | Adaptive Cruise Control Lane Keep Assist Driver-Initiated Lane Change Automatic Lane Change Lane Fork to Follow Route (Highway Interchange) Lane Merge Speed Adaptations for Curves and Speed Limit Changes Approaching Stopped Traffic | Traffic Light Stop at Intersection Protected Intersection Turn Unprotected Intersection Turn Roundabout Yield to Pedestrian Crossing Parking Assist Parking UX Remote Parking | Confidence View Augmented Reality AR HUD Parking Visualization Fused Awareness Conversational Al Driver/Occupant Monitoring Activity Monitoring |



END-TO-END SOLUTION

The NVIDIA DRIVE Level 2+ solution is trained and validated on NVIDIA DRIVE Infrastructure — a true end-to-end development process based on a unified computing architecture. It starts with NVIDIA DGX™ systems, which enable streamlined, large-scale DNN training and optimization. Using the power of GPUs and AI, developers can comprehensively train DNNs for autonomous vehicle perception, planning, control, and more. The NVIDIA DRIVE Constellation™ and NVIDIA DRIVE Sim™ platform provides a virtual proving ground with a near-infinite variety of driving conditions to test and validate DNNs on the same hardware as in the vehicle. Combined with the DRIVE AV solution, DRIVE Infrastructure creates a continuous development cycle for constant improvement.

This software-defined vehicle platform delivers continual enhancements for the end consumer as well. With over-the-air updates, automakers can deliver new features and capabilities throughout the life of the car, extending joy to the customer and creating new, transformative business models.

