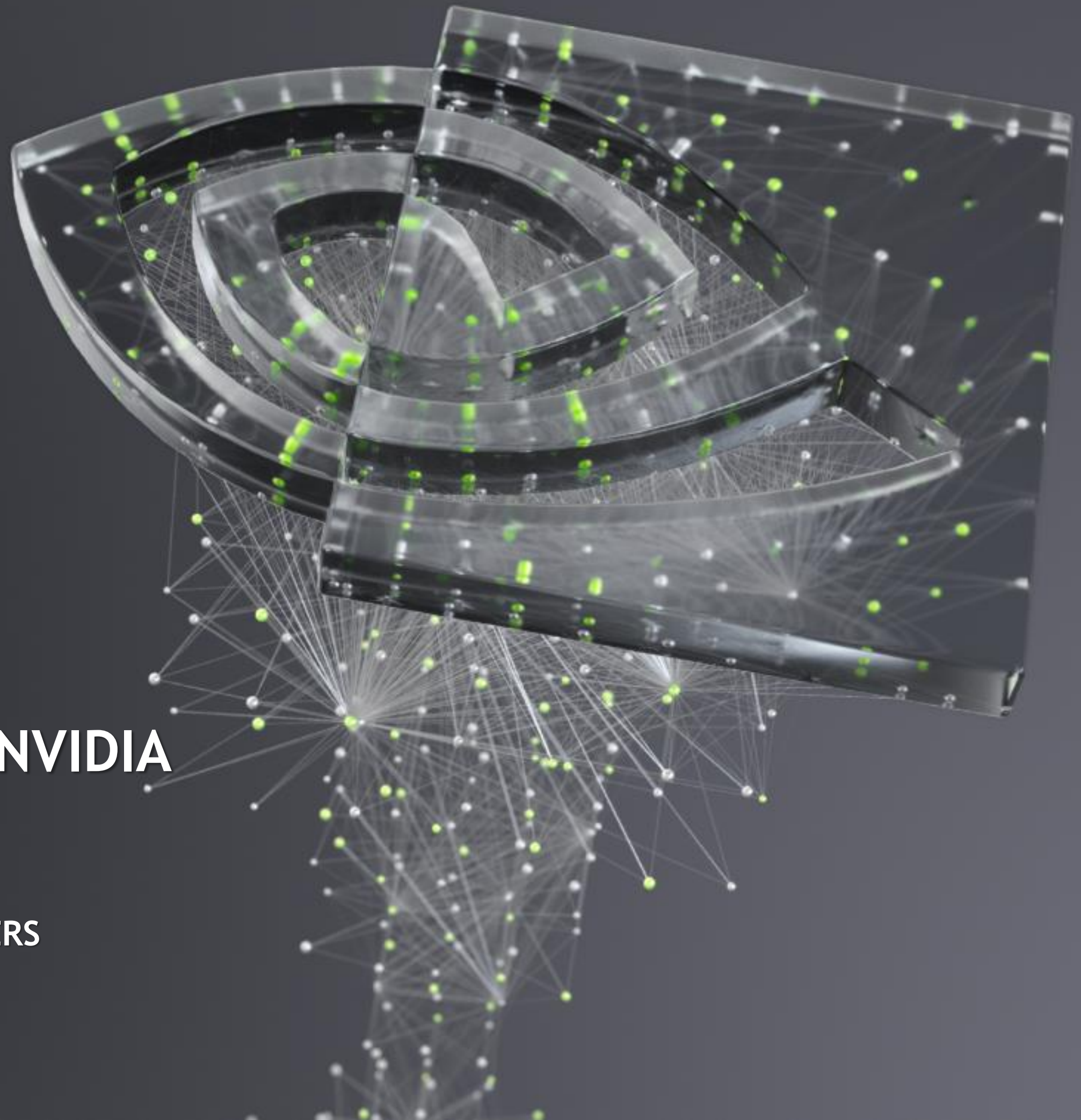




GETTING STARTED WITH THE NVIDIA DRIVE AGX ORIN DevKit

FOR [DRIVE AGX SDK DEVELOPER PROGRAM](#) MEMBERS

October 2022

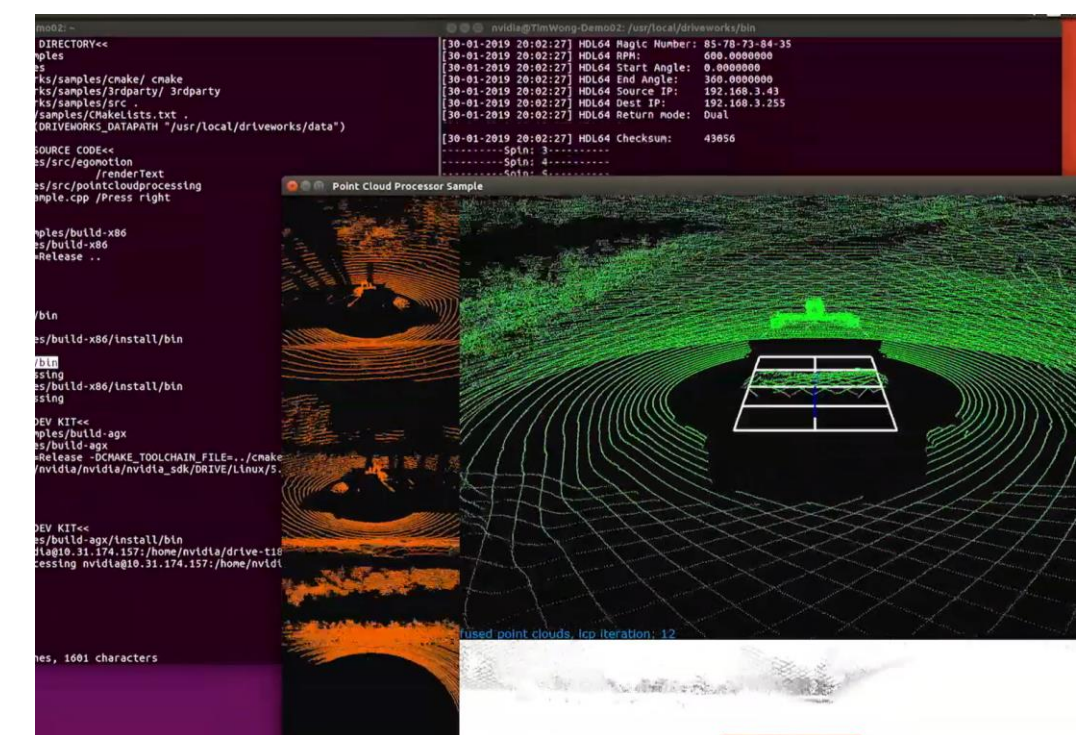


WELCOME TO DRIVE AGX

Covers:

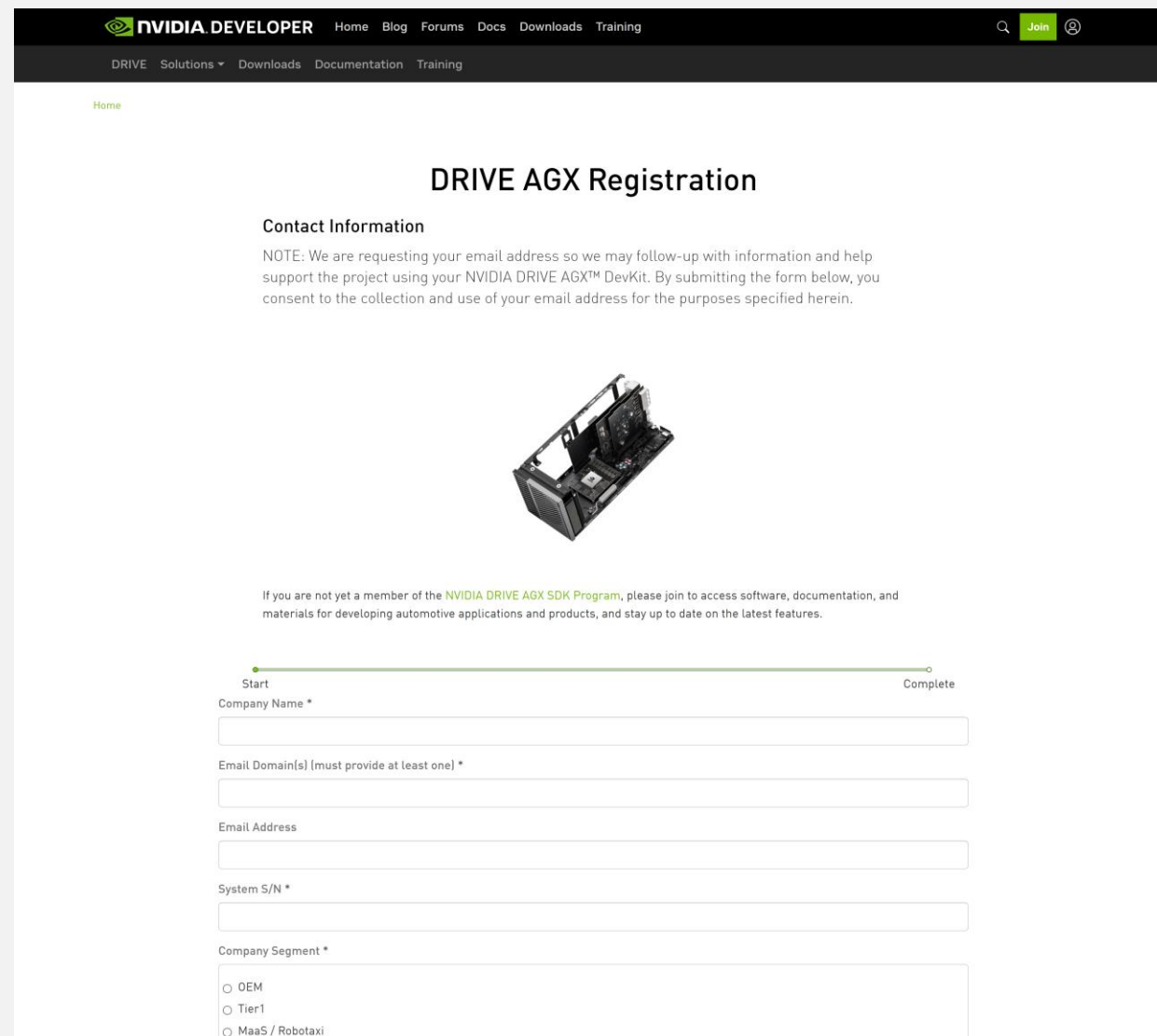
- ▶ Intro to the NVIDIA DRIVE AGX Orin™ platform
- ▶ Step by step guide to register your device
- ▶ Instructions on how to join the NVIDIA DRIVE AGX™ SDK Developer program
- ▶ A navigation through the Start page

[Link to Welcome to the DRIVE AGX Platform](#)



REGISTRATION

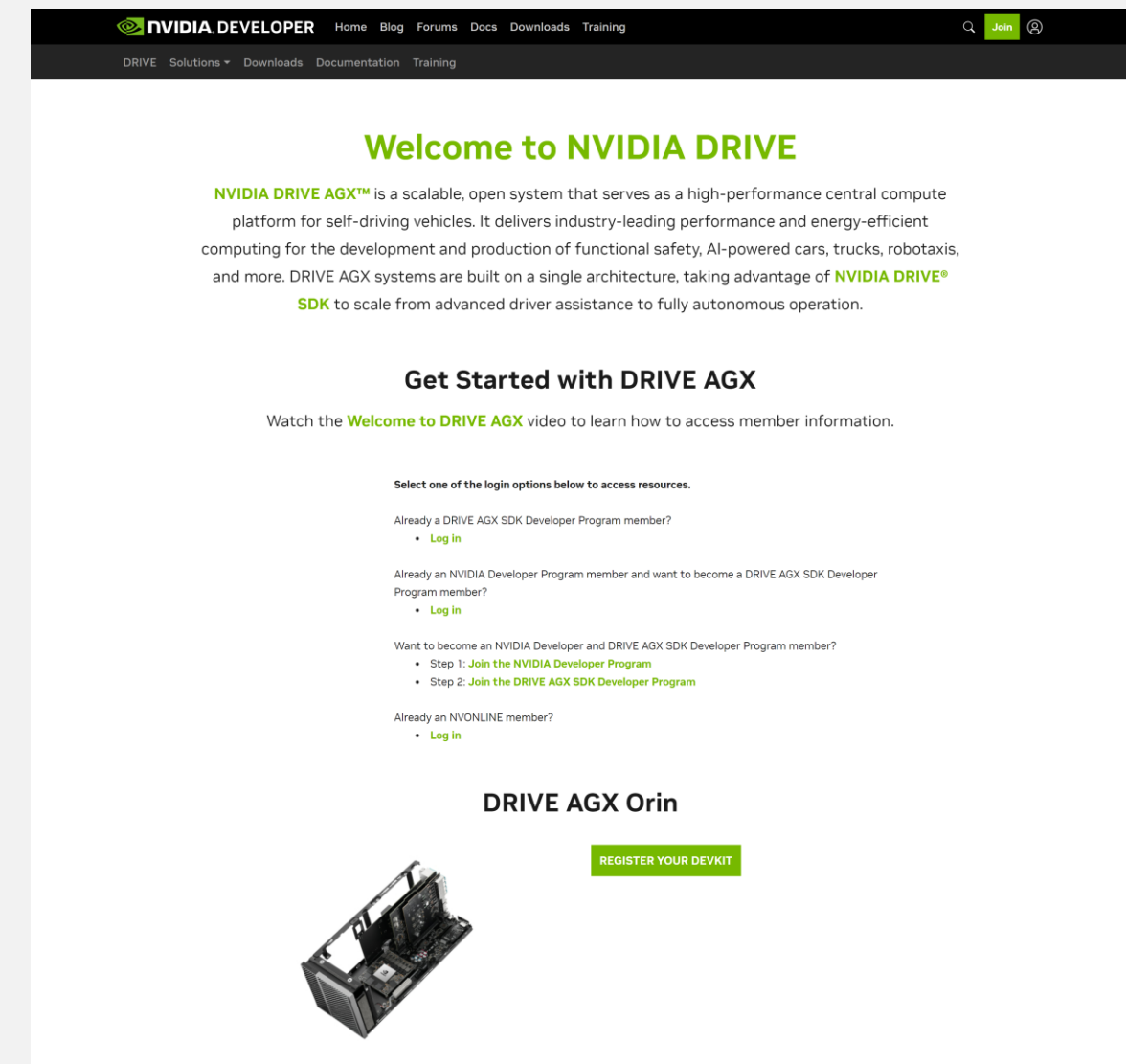
First things first - register your DevKit on the Registration Page. This will ensure an optimal experience for you and help us to provide support.



[Link to Registration Page](#)

START PAGE

Up next, visit the Start Page. It is your gateway to explore the DRIVE AGX Platform.



[Link to Start Page](#)

KEY WEBSITES FOR DRIVE AGX ORIN

DevKit Register Page

Step by step guide to register your DevKit

developer.nvidia.com/drive/register

DevKit Start Page

How to Navigate DRIVE Developer Page

developer.nvidia.com/drive/start

DevKit Setup Page

Step by step guide to setup your DevKit

developer.nvidia.com/drive/setup

KEY WEBSITES FOR DRIVE AGX ORIN

Downloads

Link to access software releases

developer.nvidia.com/drive/downloads

Docs

Comprehensive documentation

developer.nvidia.com/drive/documentation

Forum

Ask questions or browse threads

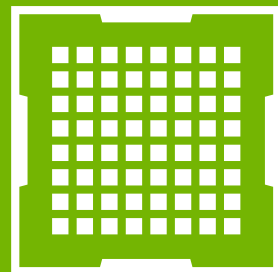
forums.developer.nvidia.com/c/autonomous-vehicles/drive-agx-orin/

Hyperion Sensors

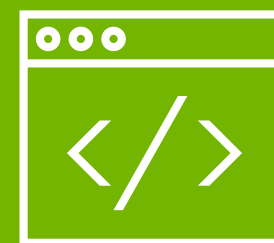
For additional supported sensors, please refer to [DRIVE AGX Orin Sensors and Accessories](#)

developer.nvidia.com/drive/ecosystem-hw-sw

RESOURCE OVERVIEW



Hardware Setup



SDK



Training



Need Help?



HARDWARE SETUP



HARDWARE QUICK START GUIDE

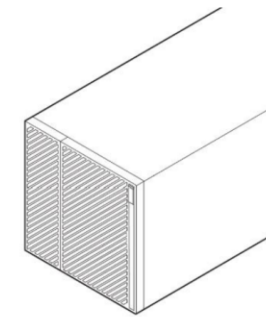
Covers:

- ▶ Components list
- ▶ System Connectors
- ▶ DevKit versions
- ▶ Steps required to run the DevKit for the first time

[Link to Hardware Quick Start Guide](#)

NVIDIA DRIVE AGX Orin Developer Kit

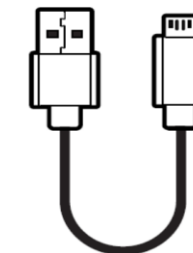
Hardware Quick Start Guide



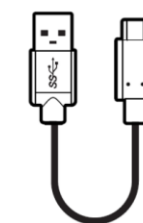
Developer System



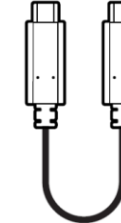
AC Power Cable



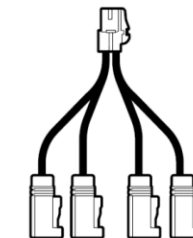
Micro USB Cable



Type A-to-C USB Cable



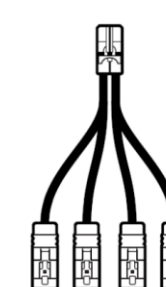
Type C-to-C USB Cable



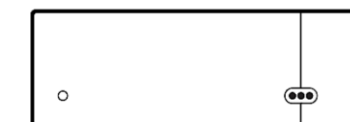
Camera Splitter Cable



Dual HMT-D Splitter



Quad HMT-D Splitter



NIC Adapter



MECHANICAL & INSTALLATION GUIDE

NVIDIA DRIVE AGX Orin Developer Kit Mechanical and Installation Guide

Covers:

- ▶ Mechanical dimensions
- ▶ Mounting considerations
- ▶ Interface connections
- ▶ Environmental requirements
- ▶ Electrical installation

[Link to Mechanical and Installation guide](#)

Installation Guide

Figure 2-1. Rear Panel Connectors

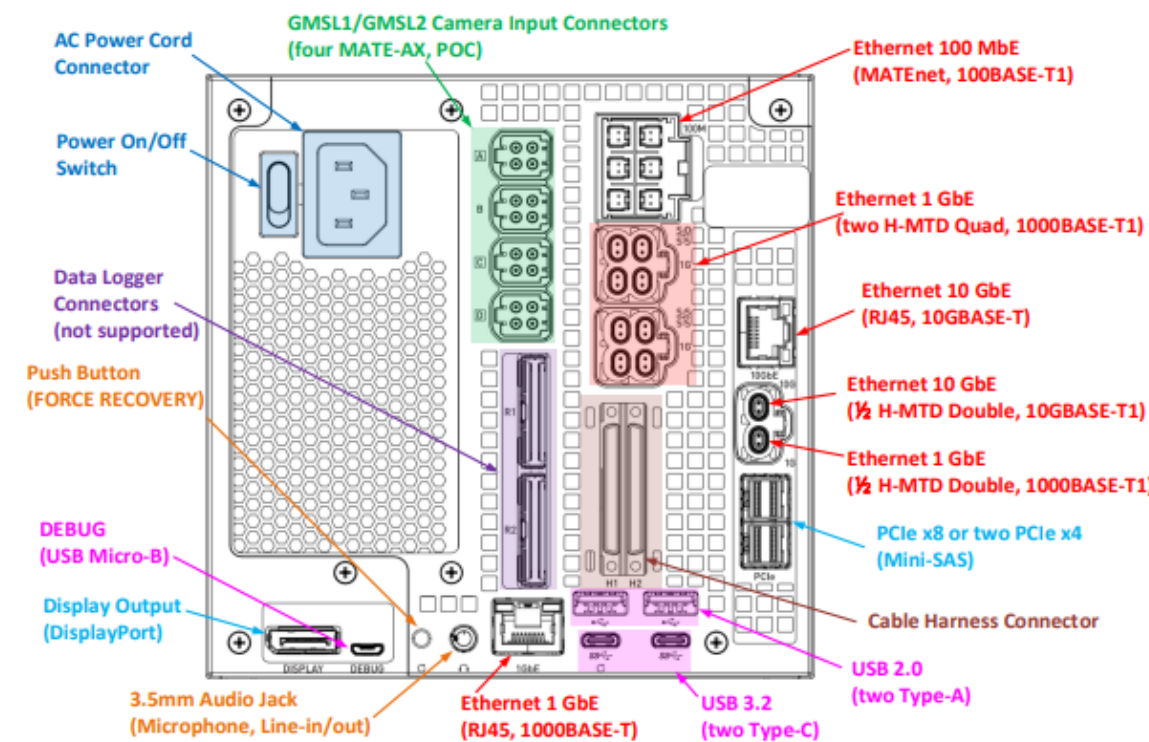
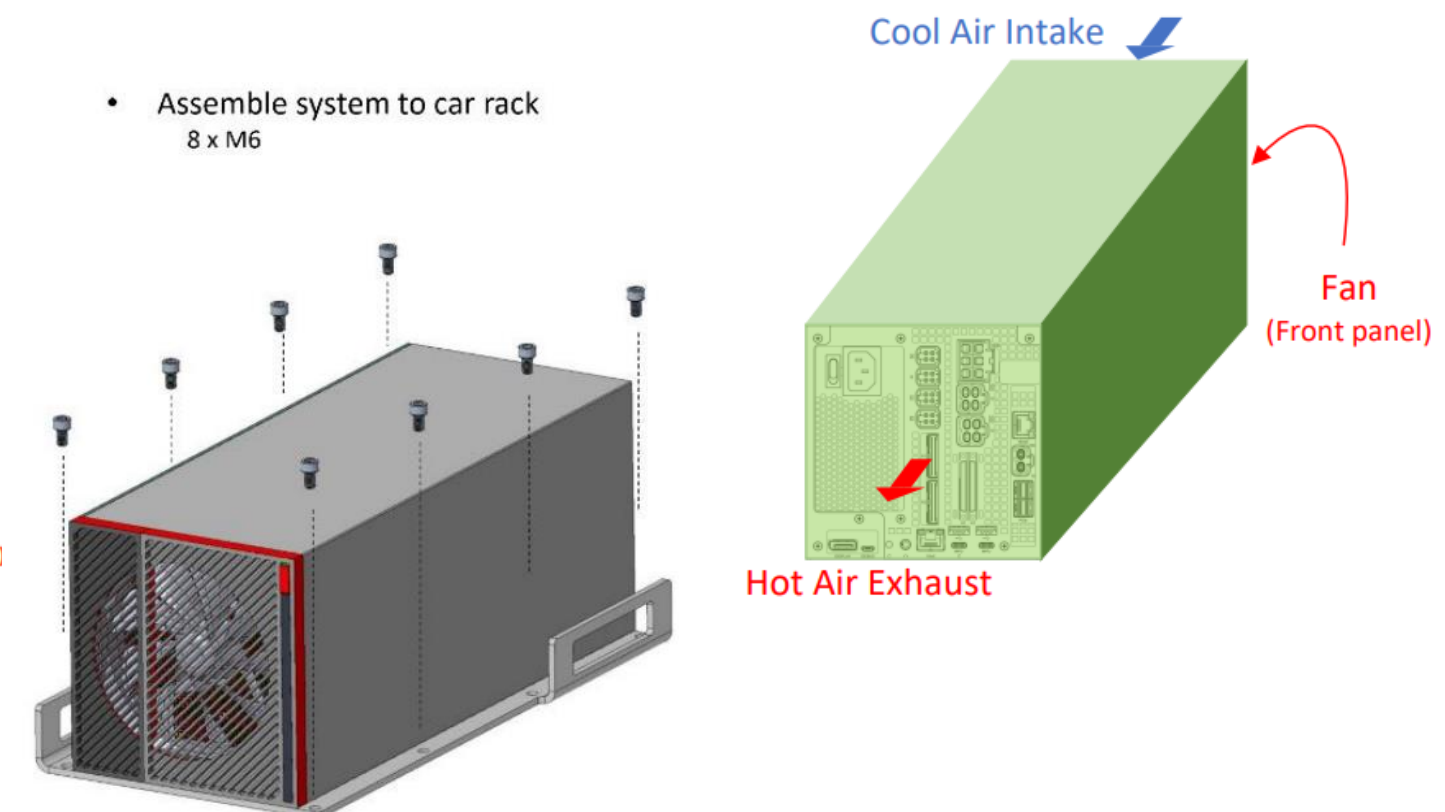


Figure 1-3. Airflow Direction



SUPPORTED SENSORS AND ACCESSORIES

Hardware for DRIVE AGX Orin that is supported by NVIDIA and our partners

Covers:

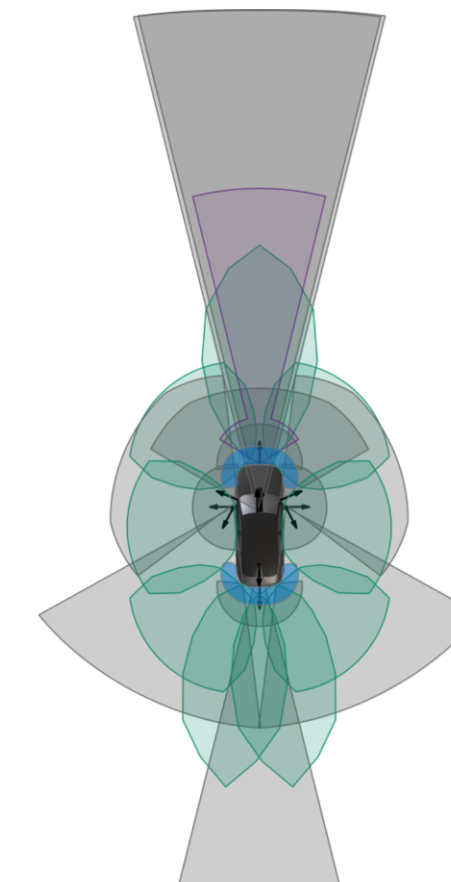
- ▶ Cameras
- ▶ Lidars
- ▶ Radars
- ▶ IMU / GNSS devices
- ▶ USS/RCS
- ▶ Hardware accessories

[Link to DRIVE Hyperion 8.1 Sensors and Accessories](#)

[Link to DRIVE AGX Orin Sensors and Accessories](#)

Hyperion 8.1 Sensor Specifications

Sensor Qty & Type	Function	Details
8 exterior cameras	Wide & tele vision	Sony IMX728, 8.3Mpx
4 exterior cameras	Fisheye near vision	Sony IMX623, 3.0Mpx
6 radars	Corner & side sensing	Hella Short Range Radar
3 radars	Front & rear sensing	Continental 1x Imaging and 2x Long Range Radars
1 lidar	Front redundant sensing	Luminar
3 interior cameras	Driver monitoring system	1x OVT - OV2311, 2Mpx
	Occupant monitoring system	2x OVT - OX05B1S, 5Mpx
2 IMUs	Vehicle odometry detection	1x Continental SC13Si, 1x Bosch MMP
1 GNSS	Vehicle position detection	U-blox



Cameras

A mix of wide-angle fisheye cameras for near vision, paired with high-fidelity wide and tele 8MP cameras for detecting longer distances.



Lidars

Front center automotive-grade lidar for an additional layer of redundant vision, as well as a rooftop high-resolution lidar for ground-truth (GT) data collection



Radars

Multiple radars for overlapping front, side, and corner visibility and redundancy, with increased angular and vertical resolution for complex urban driving.



IMU / GNSS

Vehicle position and odometry sensing for precise localization.



USS / RCS

Ultrasonic sensors for parking space measurement and maneuvers. Road condition sensors for assessing road wetness to adapt vehicle dynamics control.



Hardware Accessories

Hardware accessories for DRIVE AGX Orin Developer Kits.



SDK

DRIVE OS AND DRIVEWORKS INTRO

The DRIVE SDK website shows architecture and major components of the SDK

The DRIVE OS website provides more details on the DRIVE OS modules and tools

The DRIVEWORKS website shares insights on each module under its architecture

[Link to DRIVE SDK](#)

[Link to DRIVE OS](#)

[Link to DriveWorks](#)

NVIDIA DRIVE SDK



NVIDIA DRIVE OS

The screenshot shows the NVIDIA DRIVE OS website with a navigation bar (HOME, SOLUTIONS, DOWNLOADS, DOCUMENTATION, TRAINING, COMMUNITY) and a main content area. The architecture overview is displayed as follows:

- DRIVE AV:** Perception, Mapping, Planning
- DRIVE IX:** Visualization, AI CoPilot, AI Assistant
- DRIVEWORKS:** Sensor Abstraction, Image/Point Cloud Processing, Vehicle ID, DNN Framework, Recorder, Calibration, Egomotion
- DRIVE OS:** NvMedia, NvStreams, CUDA, TensorRT, Developer Tools
- DRIVE AGX DEVELOPER KITS (Xavier/Orin)** and **DRIVE HYPERION DEVELOPER KIT**

NVIDIA DriveWorks

The screenshot shows the NVIDIA DriveWorks website with a navigation bar (HOME, SOLUTIONS, DOWNLOADS, DOCUMENTATION, TRAINING, COMMUNITY) and a main content area. The product description and architecture overview are as follows:

The NVIDIA® DriveWorks SDK is the foundation for all autonomous vehicle (AV) software development. It provides an extensive set of fundamental capabilities, including processing modules, tools and frameworks that are required for advanced AV development.

With the DriveWorks SDK, developers can begin innovating their own AV solution, instead of spending time developing basic low-level functionality. DriveWorks is modular, open, and readily customizable. Developers can use a single module within their own software stack to achieve a specific function, or use multiple modules to accomplish a higher-level objective.

DriveWorks is suited for the following:

- Integrate automotive sensors within your software.
- Accelerate image and Lidar data processing for AV algorithms.
- Interfacing with a vehicle's ECUs and receiving their state
- Accelerate neural network inference for AV perception.
- Capture and post-process data from multiple sensors.
- Calibrate multiple sensors with precision.
- Track and predict a vehicle's pose.

The architecture overview is displayed as follows:

- DRIVE AV:** Perception, Mapping, Planning
- DRIVE IX:** Visualization, AI CoPilot, AI Assistant
- DRIVEWORKS:** Sensor Abstraction, Image/Point Cloud Processing, Vehicle ID, DNN Framework, Recorder, Calibration, Egomotion
- DRIVE OS:** NvMedia, NvStreams, CUDA, TensorRT, Developer Tools
- DRIVE AGX DEVELOPER KITS (Xavier/Orin)** and **DRIVE HYPERION DEVELOPER KIT**

DOWNLOADS

Provides access to all relevant DRIVE SDK releases, including Release Summary, Installation Guides, Release Notes, etc.

Note: DRIVE OS 6.0.4 supports installation via Docker containers and SDK Manager.

[Link to DRIVE Downloads Site](#)

[Link to Details on NVIDIA DRIVE Platform Docker Containers](#)

[Link to Details on NVIDIA SDK Manager](#)

[Link to Details on DRIVE OS Docker](#)

Home > DRIVE > NVIDIA DRIVE Downloads

NVIDIA DRIVE Downloads

This page provides access to DRIVE SDK for developers using NVIDIA DRIVE[®] hardware. See [Automotive Hardware](#) and [Automotive Software](#) for more details.

For support, please post any queries or issues in the [Forums](#).

Please note, download requires membership to the [NVIDIA DRIVE[®] AGX SDK Developer Program](#) for DRIVE Orin and DRIVE Xavier, and to the [NVIDIA DRIVE[®] PX 2 SDK Developer Program](#) for DRIVE PX 2.

Use the product filters below to select appropriate downloads for your hardware platform

Showing 7 downloads.

Title	Version	Release Date
> DRIVE OS [DRIVE Orin Latest] New	6.0.4	2022/08/29
> DRIVE OS and DriveWorks [DRIVE Xavier Latest]	5.2.6	2021/10/20
> DRIVE OS and DriveWorks	5.2.0	2021/01/21
> DRIVE Software [DRIVE Xavier Latest]	10.0	2019/11/15
> DRIVE Software	9.0	2019/05/28
> DRIVE OS with DriveWorks [DRIVE PX 2]	5.0.10.3	2018/10/04
> DRIVE Sim	Early Access	Coming Soon

> **DRIVE OS [DRIVE Orin Latest]** New 6.0.4 2022/08/29

Update to NVIDIA DRIVE[®] OS 6.0.4 Linux SDK:

Either install with NVIDIA SDK Manager, **OR** NVIDIA DRIVE OS Docker Containers through NVIDIA GPU Cloud (NGC).

[Documentation](#) is publicly available under **DRIVE Orin**.

After updating your software, be sure to review [DRIVE OS 6.0.4 Installation Guide](#) to finalize your DRIVE AGX System Setup.

Supported hardware:

- NVIDIA DRIVE AGX Orin™

a. NVIDIA SDK Manager:

- Requires Ubuntu 20.04 on the host PC.
- Install the most up-to-date version of the [NVIDIA SDK Manager](#).

b. NVIDIA DRIVE OS Docker Containers:

- Requires Ubuntu 20.04 or Ubuntu 18.04 on the host PC.
- Learn more about [NVIDIA DRIVE Platform Docker Containers](#).
- Please activate your access to the NGC 'drive' organization by clicking through the NGC activation email you received.

Submit questions or feedback in the [DRIVE AGX Orin Forum](#). We want to hear from you!

Additional links:

- [DRIVE OS 6.0.4 Blog Post](#)

[More Information](#) >

DOWNLOADS

- [DRIVE OS 6.0.4 Release Notes](#)
- [DRIVE OS 6.0.4 Installation Guide](#)
- [a. NVIDIA SDK Manager](#)
- [b. DRIVE OS Docker](#)



DOCUMENTATION OVERVIEW

A collection of documentation that helps you to develop with your DRIVE AGX Orin DevKit, includes:

- ▶ Developer Kit documents
- ▶ Sensors & Accessories
- ▶ DRIVE OS software documentation
- ▶ Developer Tools
- ▶ Licenses

[Link to DRIVE Documentation](#)

DRIVE Orin

DRIVE AGX Orin Developer Kit

- [DRIVE AGX Orin Product Brief](#)
- [DRIVE AGX Orin Developer Kit Hardware Quick Start Guide](#)
- [🔒 DRIVE AGX Orin Mechanical and Installation Guide](#)
- [DRIVE AGX Orin Regulatory Compliance and Safety Guide](#)

Sensors & Accessories

- [DRIVE Hyperion 8.1 Sensors and Accessories](#)
Sensors for DRIVE Hyperion 8.1 and DRIVE AGX Orin. Accessories for DRIVE AGX Orin.

DRIVE OS 6.0.4 Linux SDK

- [🔒 DRIVE OS 6.0.4 Linux Release Notes](#)
- [DRIVE OS 6.0 Installation Guide for NVIDIA Developers](#)
- [DRIVE OS 5.x to 6.0 SDK Migration Guide](#)
- [DRIVE OS 6.0 Linux SDK Developer Guide](#)
- [DriveWorks 5.6 SDK Reference Documentation](#)
- [🔒 DriveWorks 5.6 System Task Manager \(STM\) User Guide](#)
- [DriveWorks 5.6 Compute Graph Framework SDK Reference Documentation](#)
- [CUDA Toolkit 11.4](#)
- [TensorRT 8.4.11](#)
- [cuDNN 8.3.3](#)

Developer Tools

- [Nsight Systems](#)
- [Nsight Graphics](#)
- [SDK Manager](#)

Licenses

- [DRIVE OS 6.0 Linux Third-Party Software Licenses](#)
- [DriveWorks 5.x Third-Party Software Licenses](#)



DRIVE OS 6.0 INSTALLATION GUIDE

A step-by-step guide introducing the Drive OS 6.0

A guide for how to download the DRIVE OS using either SDK Manager or Docker

Some tips for building & Running sample applications for DRIVE OS 6.x on linux

[Link to DRIVE OS 6.0 Installation Guide](#)

DRIVE OS 6.0 Installation Guide for NVIDIA Developer



Welcome to NVIDIA DRIVE OS 6.0

NVIDIA DRIVE® OS 6.0 is the reference operating system and associated software stack designed specifically for developing and deploying autonomous applications on DRIVE AGX-based hardware. NVIDIA DRIVE® OS delivers a safe and secure execution environment for safety-critical applications, providing services such as secure boot, security services, firewall, and over-the-air updates.



Introduction



Requirements for Your Development Environment



Installation Methods

NVIDIA SDK Manager

Download and Install DRIVE OS Docker

Setting Up DRIVE OS Linux

Finalize DRIVE AGX Orin System Setup



Build and Run Sample Applications for DRIVE OS 6.x Linux

Appendix. DRIVE Platform Supported Boards



Additional Resources

SDK MANAGER





Provides an end-to-end development environment setup solution for NVIDIA DRIVE®

NVIDIA SDK Manager

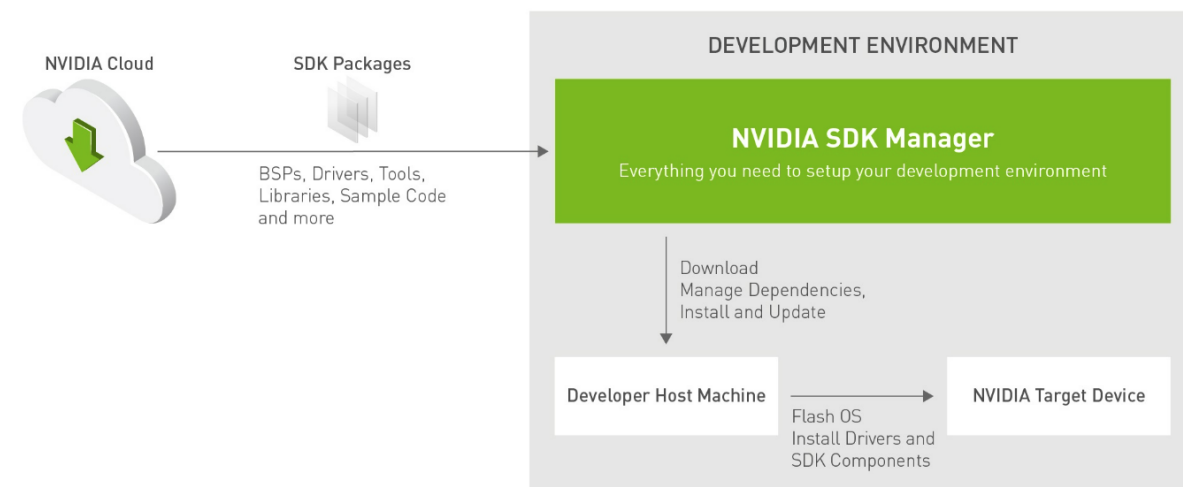
Everything You Need to Set Up Your Development Environment

NVIDIA SDK Manager provides an end-to-end development environment setup solution for NVIDIA's DRIVE, Jetson, Clara Holoscan, Rivermax, DOCA and Ethernet Switch SDKs for both host and target devices.

Download NVIDIA SDK Manager 1.8.1

 .deb Ubuntu
 .rpm CentOS/RHEL
 Docker Image Ubuntu 18.04
 Docker Image Ubuntu 20.04

[SDK Manager User Guide](#)



[Link to NVIDIA SDK Manager](#)

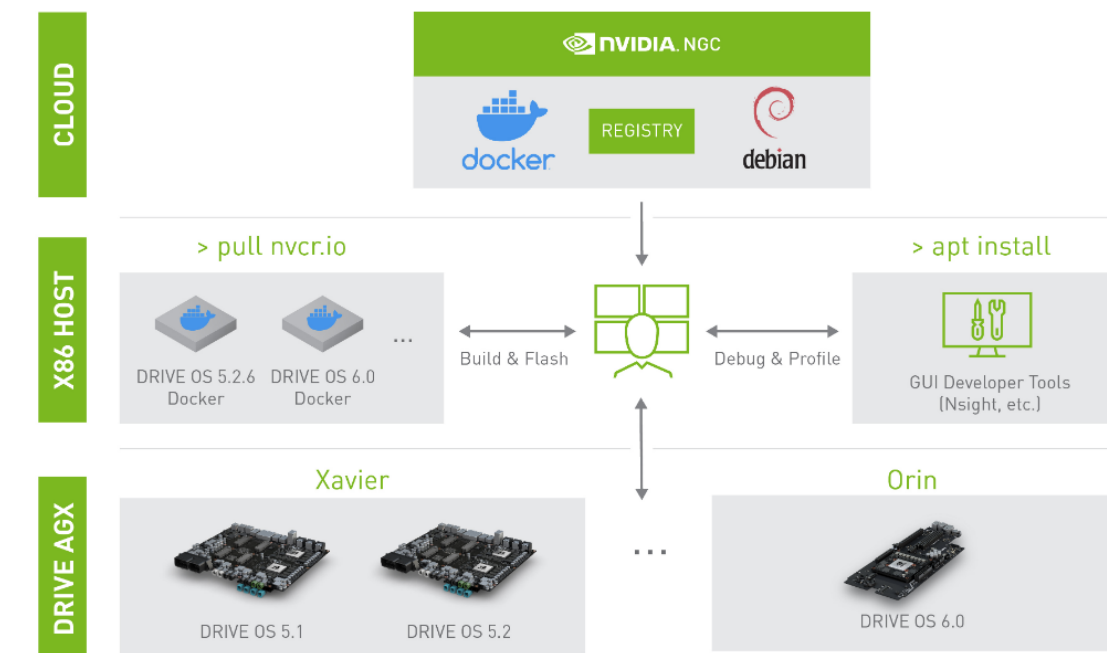
[Link to DRIVE SDK Manager download & Run](#)

NGC DOCKER

A quick intro to the NVIDIA Docker Containers concept

NVIDIA DRIVE Platform Docker Containers

Docker containers encapsulate an executable package that is intended to accomplish a specific task or set of tasks. These tasks can range from flashing a connected embedded device to a complete embedded development environment. Docker simplifies and accelerates development workflows, freeing developers to focus on application development instead of environment configuration and setup. Any host with the Docker runtime installed, such as a developer's or a public cloud instance, can run a Docker container.



[Link to NVIDIA DRIVE Platform Docker Containers](#)



DRIVE OS 6.0 DEVELOPER GUIDE

NVIDIA DRIVE OS is the reference operating system and software stack for developing and deploying AV applications on DRIVE AGX

Important documentation sections:

Board Setup & Configuration

Components & Interfaces

System Programming

Mass Storage Partition Configuration

NVIDIA DRIVE Utilities

NVIDIA DRIVE OS 6.0 Linux SDK Developer Guide

Search

Welcome to NVIDIA DRIVE OS 6.0

NVIDIA DRIVE® OS 6.0 is the reference operating system and associated software stack designed specifically for developing and deploying autonomous applications on DRIVE AGX-based hardware. NVIDIA DRIVE® OS delivers a safe and secure execution environment for safety-critical applications, providing services such as secure boot, security services, firewall, and over-the-air updates.

+	Overview
+	Installation
+	Setup and Configuration
+	Flashing
+	Embedded Software Components
+	System Software Components and Interfaces
+	Understanding Security
+	System Programming
+	Bootloader Programming
+	Mass Storage Partition Configuration
+	NVIDIA DRIVE Utilities
+	Manifest
	API Reference
	NVIDIA DRIVE OS 6.0 Third-Party Software Licenses
	Legal Information

[Link to DRIVE OS 6 Linux SDK Developer Guide](#)



DRIVEWORKS DOCUMENTATION

The DriveWorks SDK provides an extensive set of fundamental capabilities, including processing modules, tools and frameworks for advanced AV development

Important documentation sections:

Getting Started

Modules: Functional Components

Sample Code

Guide for porting from previous releases

[Link to DriveWorks Documentation](#)

DRIVEWORKS

Sensor Abstraction | Image/Point Cloud Processing | Vehicle IO | DNN Framework | Recorder | Calibration | Egomotion

NVIDIA DriveWorks SDK Reference
5.4.5418 Release
For Test and Development only

Welcome | Getting Started With the NVIDIA DriveWorks SDK | Modules | Samples | Tools | Tutorials | SDK Porting Guide | DriveWorks API | More

Search

DriveWorks SDK Reference Documentation

Welcome to the *NVIDIA® DriveWorks SDK Reference*.

The NVIDIA® DriveWorks Software Development Kit (SDK) enables developers to implement autonomous vehicle (AV) solutions by providing a comprehensive [library of modules](#), [developer tools](#), and [reference applications](#) that take advantage of the computing power of the NVIDIA DRIVE™ platform.

Note
This DriveWorks SDK release may only be used for test and development.

The following diagram describes the DriveWorks SDK. Click on different points to jump to specific sections.

- MODULES**
Open, modularized library of functions | Optimized for DRIVE AGX
- SAMPLES**
Samples for developing, porting, and optimizing applications
- TOOLS**
Software development tools for Sensors, Data Capture, Calibration, and more
- TUTORIALS**
In-depth tutorials for basic, intermediate, and advanced SDK use cases

The DriveWorks SDK is designed to achieve the full throughput limits of the computer, enabling real-time self-driving applications. This requires careful architecture of the end-to-end software pipeline to do the following:

- Efficiently utilize the many processors inside the NVIDIA DRIVE® platform.
- Optimize data communication formats between hardware engines.
- Minimize data copies (zero copy exchange of buffers).
- Implement and utilize the most efficient algorithms.

The DriveWorks SDK design philosophy is modular, optimized, and flexible. You can use it out of the box, or enhance it with your own code to create your own AV solution.



TRAINING

NVIDIA TRAINING

NVIDIA provides a wide list of learning tools to help in your development journey

NVIDIA has the following verticals that can help you,

- ▶ GTC talks
- ▶ DRIVE Videos / DRIVE Labs
- ▶ Webinars
- ▶ Deep Learning institute courses

[Link to DRIVE Training](#)



GTC SESSIONS

- ▶ Throughout the GPU Technology Conference (GTC)
- ▶ Relevant research such as state-of-the-art algorithms are showcased
- ▶ Customers show their work on top of the DRIVE platform
- ▶ The NVIDIA DRIVE team provides update on the DRIVE hardware and software

[Link to GTC22 March DRIVE Developer Day](#)

[Link to GTC22 March Automotive](#)

GTC

GPU Technology Conference (GTC)

Register for the GPU Technology Conference (GTC), which highlights the latest breakthroughs in autonomous vehicles, AI, HPC, accelerated data science, healthcare, graphics, and more.

Additionally, you may view our DRIVE Developer Day sessions, which offer deep dives into safe and robust autonomous vehicle development by clicking below.

[DRIVE Developer Days 2022](#)

Finally, you can view the extensive catalog of recorded presentations on the future of self-driving technology through NVIDIA On Demand by clicking below.

[Explore On-Demand](#)

DRIVE WEBINARS

A comprehensive list to increase your learning

35+ Video-Webinars all focused on DRIVE

Requires NVIDIA Developer Login

[Link to DRIVE Webinars](#)

The screenshot displays the NVIDIA On-Demand website interface. At the top, the NVIDIA logo is on the left, and 'Login' and 'EN' are on the right. Below the logo, the text 'NVIDIA On-Demand' is followed by links for 'Featured Playlists', 'FAQ', and 'Advanced Search'. The main heading is 'All DRIVE Webinars' with a left-pointing arrow. Below this, it says '29 sessions' and has a grid/list toggle icon. The list of webinars includes:

- Integrating Custom Sensors Using NVIDIA DriveWorks**
January 2020
Hope Allen, Product Manager, DriveWorks, NVIDIA
Aaraadhya Narra, Senior Solutions Architect and Deep Learning Institute certified instructor, NVIDIA
Description: In this webinar, we will cover how to implement and use the sensor plugins for different sensor types such as radar, lidar, and camera. Such plugins will make it possible for developers to bring new sensors into the DriveWorks SAL and to implement the transport and protocol layers necessary to communicate with the...
- Developing a Camera Pipeline Using NVIDIA DriveWorks**
January 2020
Hope Allen, Product Manager, DriveWorks, NVIDIA
Rajani Janardhana, Senior Systems Engineer, NVIDIA
Description: This webinar covers the steps to develop camera image processing software on the DriveWorks SDK. Using this platform, developers can implement a range of capabilities seamlessly and with high performance. This webinar includes DriveWorks image basics, low-level Computer Vision modules, and Feature Tracking and...
- Integrating DNN Inference into Autonomous Vehicle Applications with NVIDIA DriveWorks SDK**
May 2020
Hope Allen, Product Manager, DriveWorks, NVIDIA
Shay Alon, Automotive Software Solution Architect, NVIDIA
Description: The NVIDIA DriveWorks SDK can significantly speed autonomous vehicle development time. It provides the framework and tooling to import, optimize and infer networks for AV applications that use deep neural networks (DNNs). DriveWorks encapsulates NVIDIA TensorRT to provide a modular, standardized and...

Each webinar entry includes a thumbnail image showing a 'Thank you for joining!' message or a 'How to Use the Console' interface. The thumbnails also show the duration of the webinar (38:47, 38:25, and 37:17 respectively) and a lock icon.

DRIVE VIDEOS

There are numerous videos that showcase applications that can be developed on top of the DRIVE platform

- ▶ **DRIVE Labs videos** are short-form videos that dive into specific self-driving algorithms
- ▶ **DRIVE Dispatch videos** provide Brief updates from our AV fleet, highlighting new breakthroughs

[Link to DRIVE Videos](#)



The NVIDIA DRIVE® team is constantly innovating, developing redundant and diverse deep neural networks for safe and robust self-driving systems that are transforming the industry.

Experience Our Latest AV Innovations

Select tab below for an inside look at the process.

[NVIDIA DRIVE LABS](#)

[NVIDIA DRIVE DISPATCH](#)

Short-form videos that dive into specific self-driving algorithms.



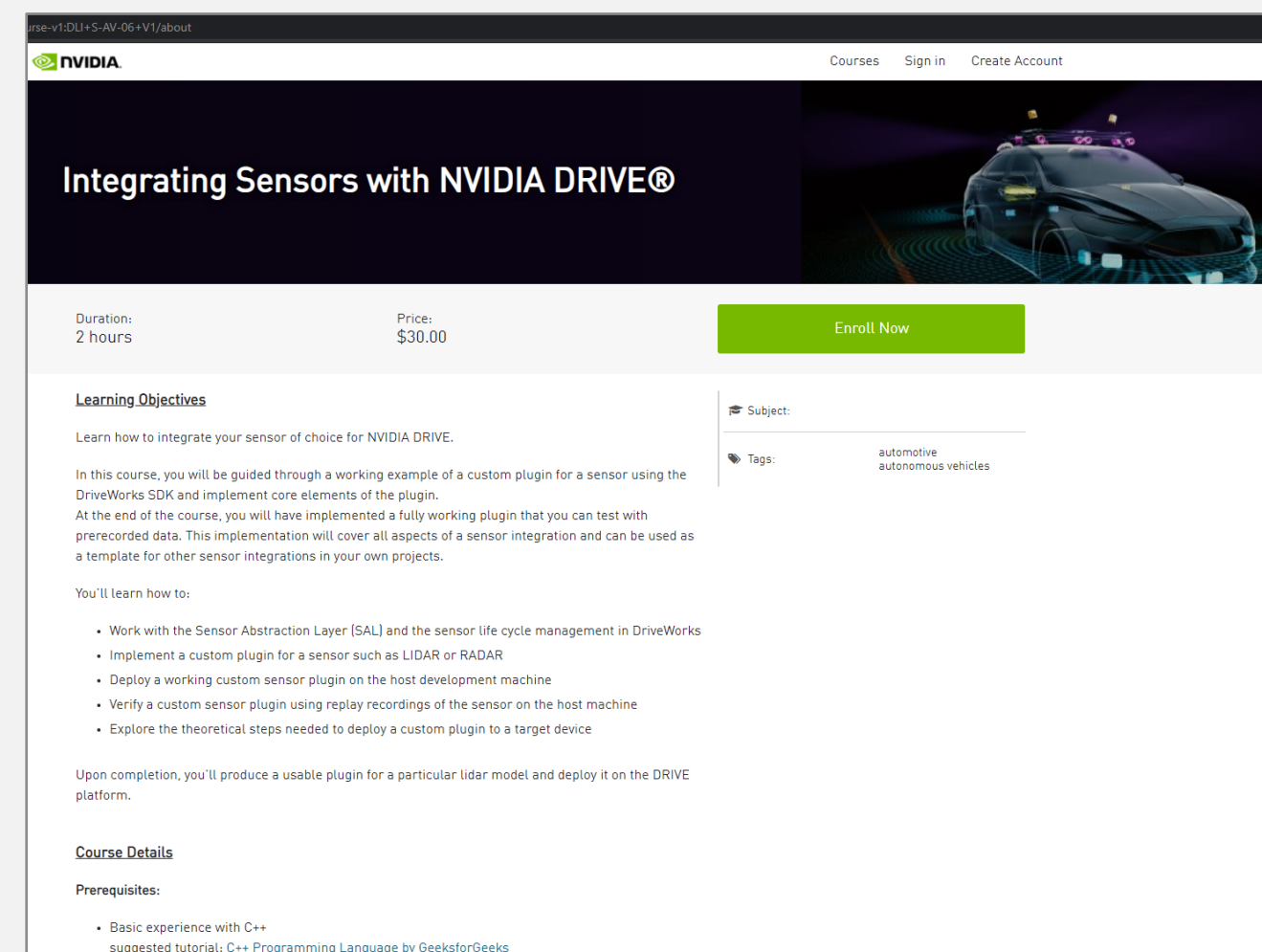
DEEP LEARNING INSTITUTE (DLI) COURSES

Numerous self-paced and instructor-led courses,
Some recommendations:

- ▶ [Integrating Sensors with NVIDIA DRIVE](#)
- ▶ [Fundamentals of Accelerated Computing with CUDA C/C++](#)
- ▶ [Optimization and Deployment of TensorFlow Models with TensorRT](#)
- ▶ [Deep Learning at Scale with Horovod](#)

[Link to Deep Learning Institute](#)

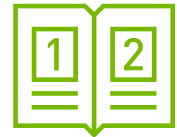
[Link to Course Catalog PDF](#)





NEED HELP?

GOT STUCK? TRY TO...



Check Out the [DRIVE OS](#) and [DriveWorks](#) Documentation

Comprehensive documentation that includes many samples that illustrate how to leverage the DRIVE SDK



Browse the [Support Forum](#)

The Forum contains 1000+ experiences of other users with answers by our support team. If your question is not already covered – [feel free to raise it](#)



Submit a Bug

Raise a bug if suggested by the Forum Support team or via [NVONLINE](#) if applicable. Our tech teams will support with information and guidance



Contact your Distributor or NVIDIA Representative

The issue persists? Contact your Developer Relations Manager or Account Manager



SUPPORT FORUM

The Forum contains an ever-evolving collection of customer questions and answers by our support team.

If your question is not already covered
— **feel free to raise it**

The Forum team usually **replies within 24h**

Raising questions in the Forum requires Developer Login

[Link to DRIVE AGX Orin Forum](#)

The screenshot shows the NVIDIA Developer website. At the top, the navigation bar includes 'NVIDIA DEVELOPER', 'Home', 'Blog', 'Forums', 'Docs', 'Downloads', and 'Training'. Below this, a secondary navigation bar lists 'DRIVE', 'Solutions', 'Downloads', 'Documentation', and 'Training'. The main heading reads 'NVIDIA DRIVE End-to-End Solutions for Autonomous Vehicles'. A 'Resources' section contains icons for 'Downloads', 'Forums', 'Training', 'DRIVE Videos', 'Technical Blog', and 'Corporate Blog'. A large green arrow points from the 'Forums' icon to a screenshot of the forum page. This second screenshot shows the 'NVIDIA' logo and navigation links: 'HOME', 'BLOG', 'FORUMS', 'DOCS', 'DOWNLOADS', and 'TRAINING'. There is a 'Log In' button and a search icon. Below the navigation, there are filter buttons for 'AUTONOMOUS VEHICLES', 'DRIVE AGX ORIN', 'ALL TAGS', 'ALL', and 'LATEST'. The forum content is presented in a table with columns for 'Topic', 'Replies', 'Views', and 'Activity'. The table lists several topics, including 'DRIVE Orin DevKit bootburn Upgrade failed from 6.0.2 to 6.0.3', 'Does Orin, Xavier, PX2 support OpenMP?', 'TensorRT context consume mush memory on Orin', and 'How to use hw encoder in drive Orin'.

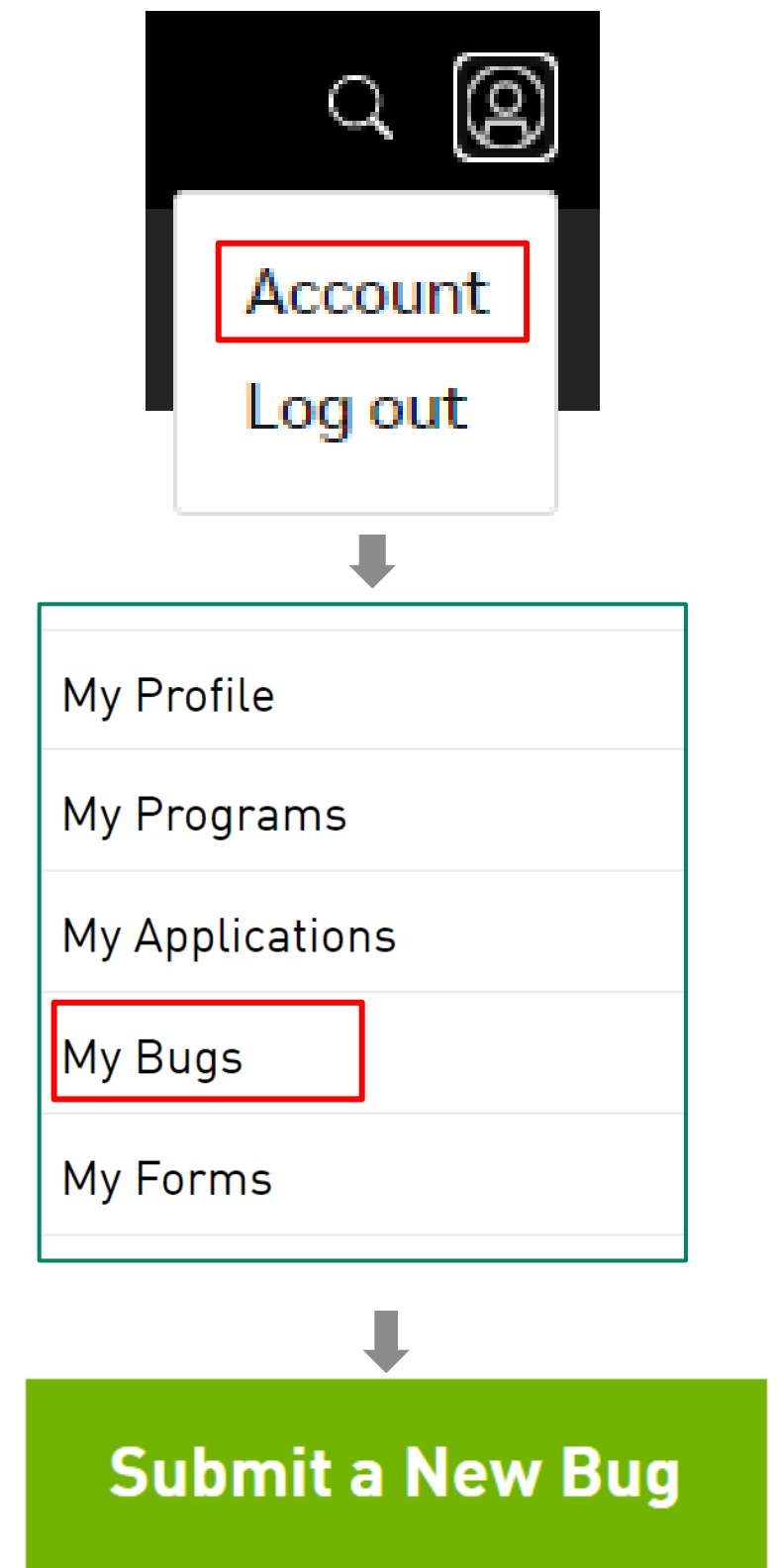
Topic	Replies	Views	Activity
<input checked="" type="checkbox"/> DRIVE Orin DevKit bootburn Upgrade failed from 6.0.2 to 6.0.3 drive-platform-setup	7	275	Jun 2
Does Orin, Xavier, PX2 support OpenMP? drive-applications	1	256	May 12
TensorRT context consume mush memory on Orin tensorrt python	3	219	May 12
<input checked="" type="checkbox"/> How to use hw encoder in drive Orin driveos-nvmedia	6	231	May 11



IF FORUM CAN'T HELP

Report a Bug

- ▶ Reporting a Bug on NVIDIA Developer (aka DevZone) for confidential content
- ▶ Login to <https://developer.nvidia.com/drive>
- ▶ In upper right user picture, click the down arrow
- ▶ Select “Account”
- ▶ In the left navigation menu, select “My Bugs”
- ▶ Select “Submit a New Bug” (in upper right green box, or within text of bounded green box)
- ▶ Fill in the details of your feedback, request or issue
- ▶ IMPORTANT:
 - ▶ When Filing a Bug, be sure to include the Platform Name – e.g. [DRIVE AGX Orin] in the summary, and
 - ▶ Select DRIVE [Autonomous Driving] for Relevant Area
- ▶ If you have any issues, please contact InfoDRIVEPX@nvidia.com
- ▶ Request: Create one bug per issue: do not file multiple issues in the same report

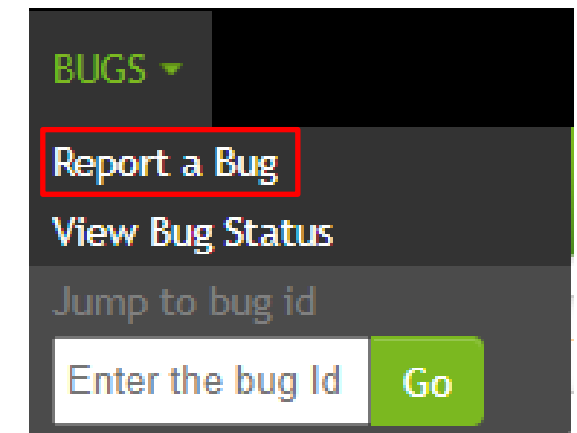




NVONLINE

Report a Bug

- ▶ Report a Bug on NVONLINE
- ▶ Login to <https://partners.nvidia.com/>
- ▶ In upper left, select BUGS > Report a Bug
- ▶ Fill in the details of your feedback, request or issue
- ▶ **IMPORTANT:** When filing Bug, under Project
 - ▶ Click Project
 - ▶ Select DRIVE
 - ▶ If you do not have this project, please contact InfoDRIVEPX@nvidia.com
- ▶ Request: Create one bug per issue; do not file multiple issues in the same report
- ▶ Tracking a Bug (track status, provide additional information)
- ▶ In upper left, select BUGS > View Bug Status





FILE A NVBUG – DETAILS

(1/2)

Problem Type: select either Software Issue or Hardware Issue (Dev) - not others!

Product: select Parker if you are using DRIVE PX 2 (AutoChauffeur, AutoCruise, G3) or DRIVE CX 2; select Xavier if you are using DRIVE Development Platform.

Operating System: select Linux, Android or QNX.

Computer Type: select Mobile.

Driver version: Enter version # of release, e.g. 4.1.2.0 (as displayed on release files).

Cust. Severity: select severity.
Cust. Priority: select priority.

Division Name: select Customer / Partner Name from drop down list.
Project Name: Click Project and select DRIVE.

Form Fields:

- Problem Type:** Radio buttons for Software Issue (selected), Hardware Issue (Dev), Hardware Quality Issue (Post Prod), and Operations Quality Issue.
- Synopsis:** Text input field.
- Description:** Text area with prompts: "1. Please describe the issue:", "2. Detailed steps on how to reproduce the issue:", "3. Observed vs Expected Behavior:".
- Division Name:** Drop-down menu with "- Select Any -".
- Product:** Drop-down menu with options AP20H, AP25, AP30.
- Operating System:** Drop-down menu with options N/A, .Net Server, Android, Android - cupcake.
- Computer Type:** Radio buttons for PC, Mobile (selected), and Mac.
- Driver version:** Text input field.
- Cust. Severity:** Drop-down menu with "Low".
- Cust. Priority:** Drop-down menu with "3 - Low".
- Fix Needed in Production by:** Text input field with a calendar icon.
- Project:** Text input field with a link to "Project" and "new project".



FILE A NVBUG – DETAILS

(2/2)

NVIDIA NVONLINE Site Romain

HOME BUGS ▾

REPORT A BUG

Please provide as much information as possible so we can quickly process the issue. Thank You.

* **Problem Type:**

Software Issue Hardware Issue (Dev)
 Hardware Quality Issue (Post Prod) Operations Quality Issue

* **Synopsis:**

* **Description:**

1. Please describe the issue:
 2. Detailed steps on how to reproduce the issue:
 3. Observed vs Expected Behavior:

* **Division Name:**

* **Project (select from list or create new):**
[Project](#) or [new project](#)

* **Product:**

 AP25
 AP30

* **Operating System:**

 .Net Server
 Android
 Android - cupcake

* **Computer Type:**
 PC Mobile Mac

* **Driver version:**

Cust. Severity:

Cust. Priority:

Fix Needed in Production By:

Synopsis: enter the bug title using [PartnerName][Platform][SW] <Short Description>, e.g. [MyCmpny][DRIVE PX 2 AutoChauffeur][V4.1L] Camera not responding.

Description: describe your issue with as much details as possible. For e.g. and if applicable:

- SDK/PDK version used on the host and target:
Example - V4.1L Alpha 2.0 4.1.2.0
- Target Platform: DRIVE PX 2 AutoChauffeur, DRIVE PX 2 AutoCruise, DRIVE PX 2 - G3 (dGPU), DRIVE AGX Xavier or Pegasus
- Detailed description of the issue with step-by-step instructions to reproduce the failure
- Repeatability (<10% / 30% / 50% / 100%)
- Impact of issue: e.g., how this is affecting your project
- Attach log files (under Attach file:)

Remember to SUBMIT your report!

