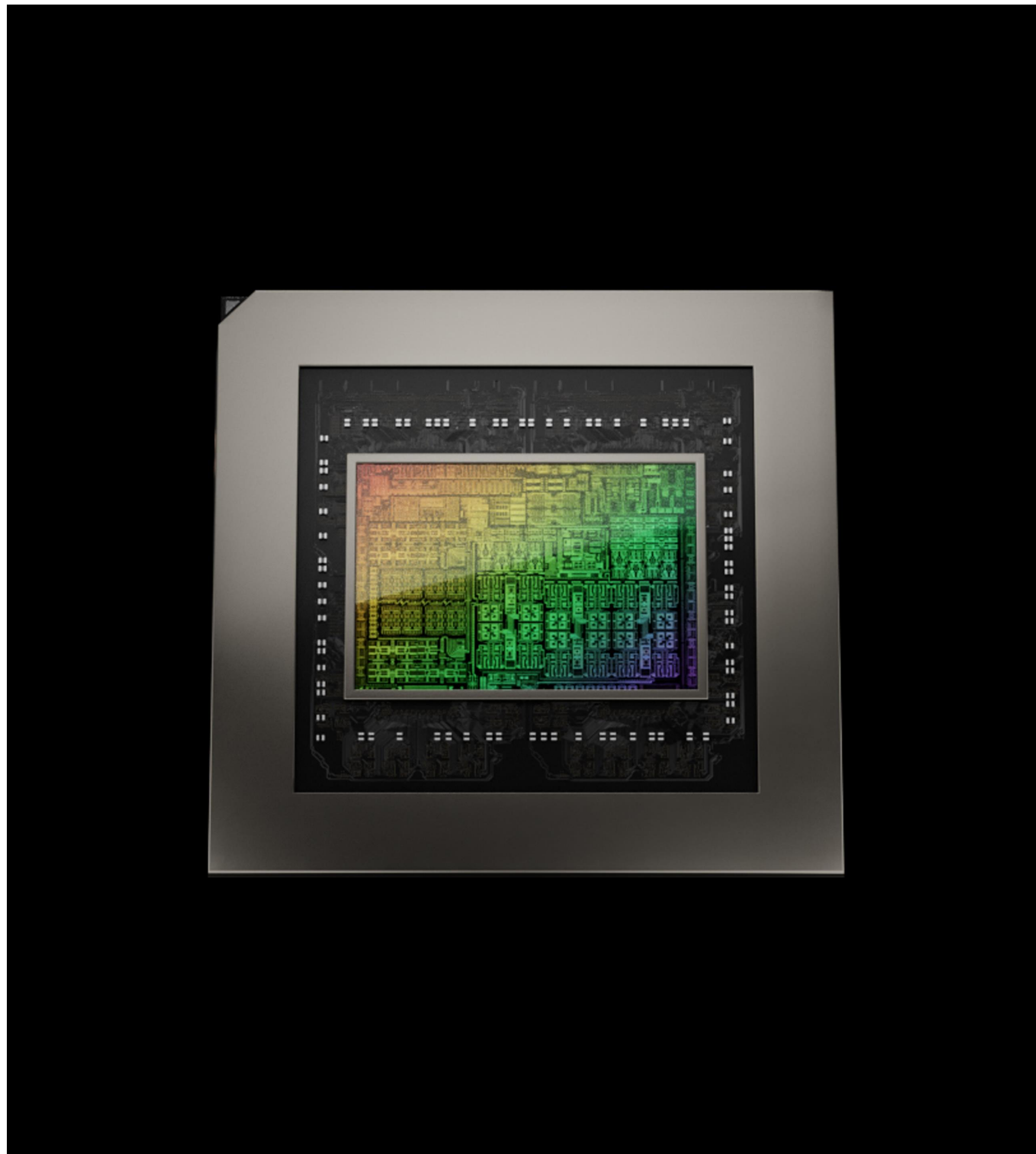




NVIDIA DRIVE AGX Thor Development Platform

December 2025

NVIDIA DRIVE End-to-End Solutions for Autonomous Vehicles



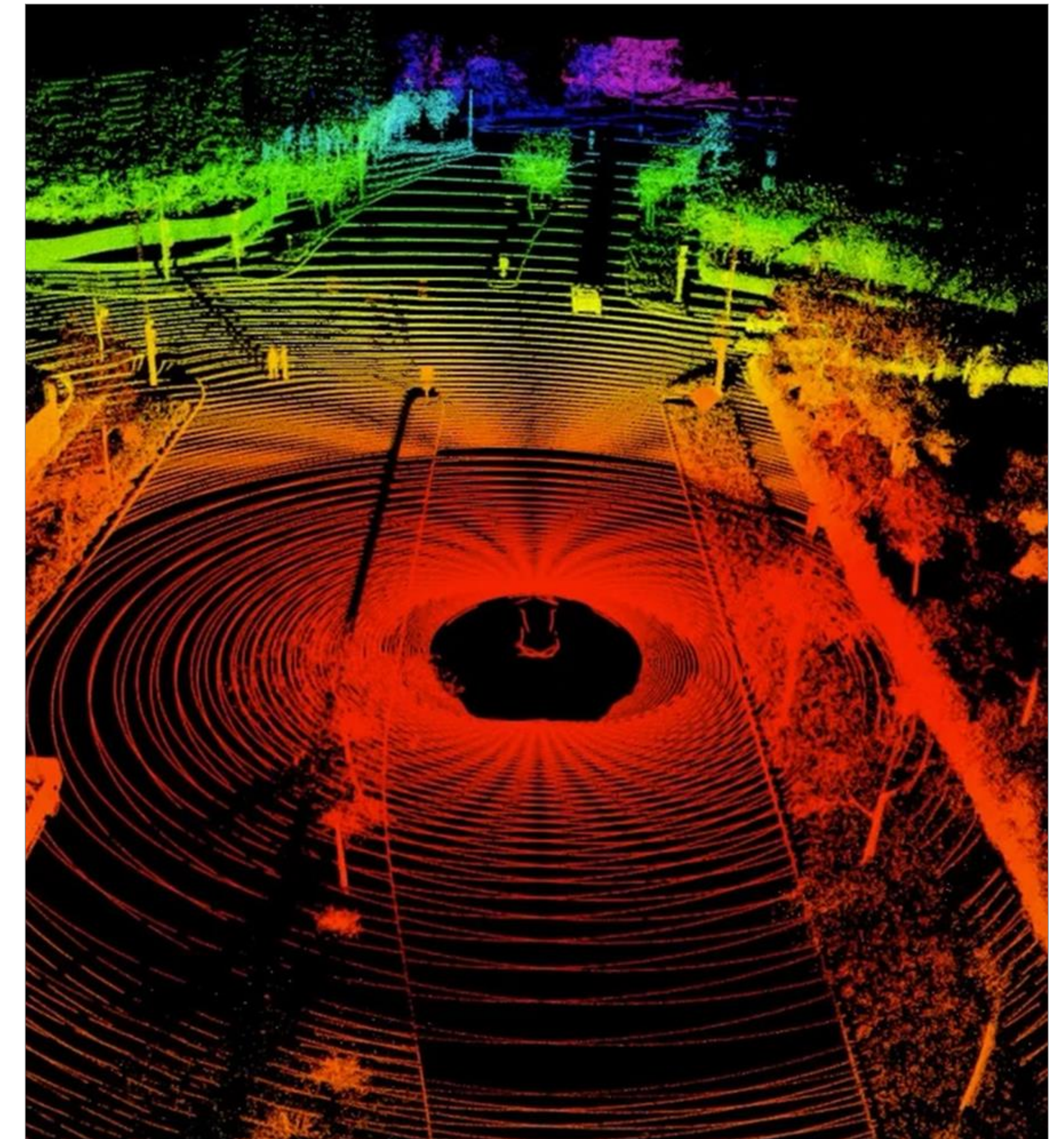
DRIVE AGX Thor SoC

Most advanced automotive SoC based on Blackwell architecture



DRIVE AGX Thor DevKit

High-performance automotive software development platform

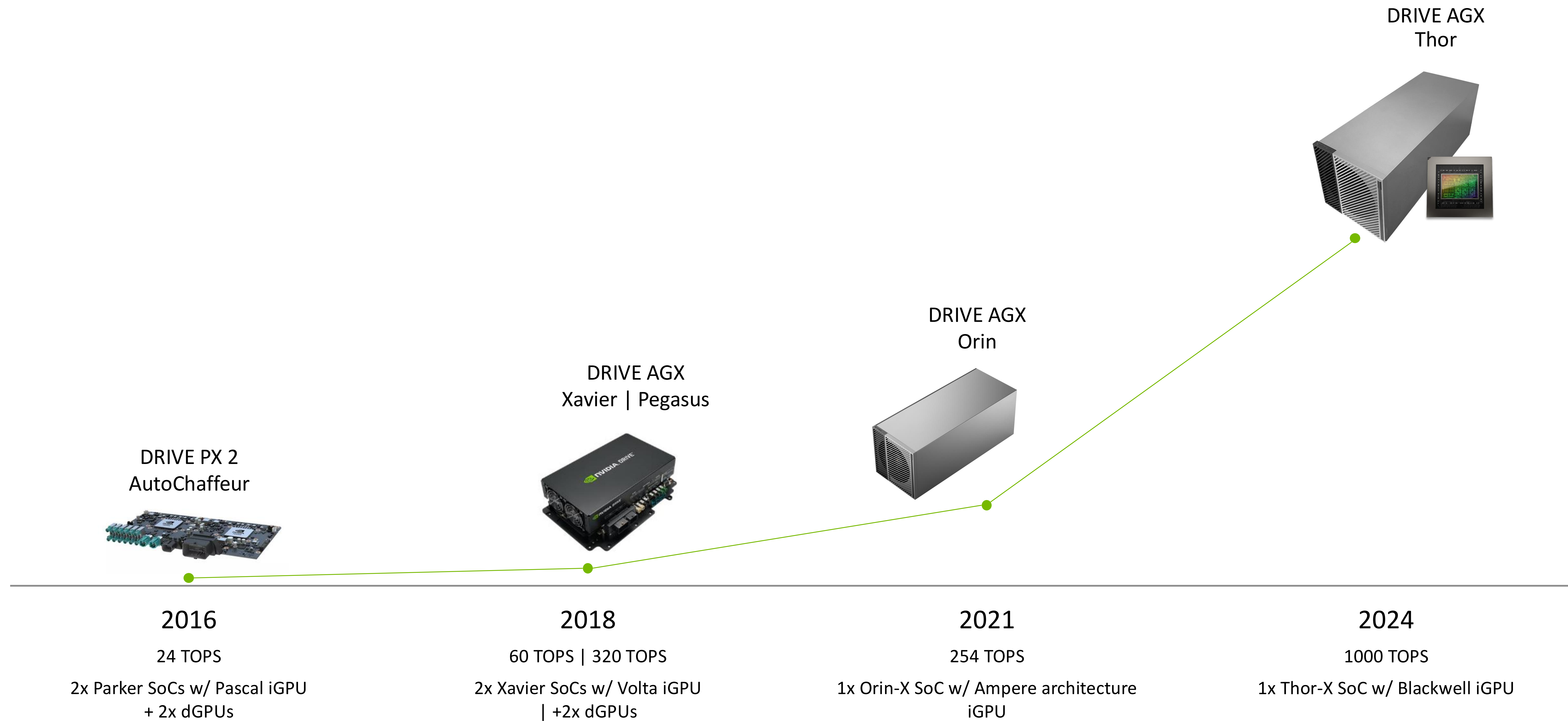


DriveOS

AV software foundation (NVIDIA OS, CUDA, and DriveWorks)

DRIVE Developer Kit Roadmap

Leaps in performance



NVIDIA DRIVE Thor-X SoC

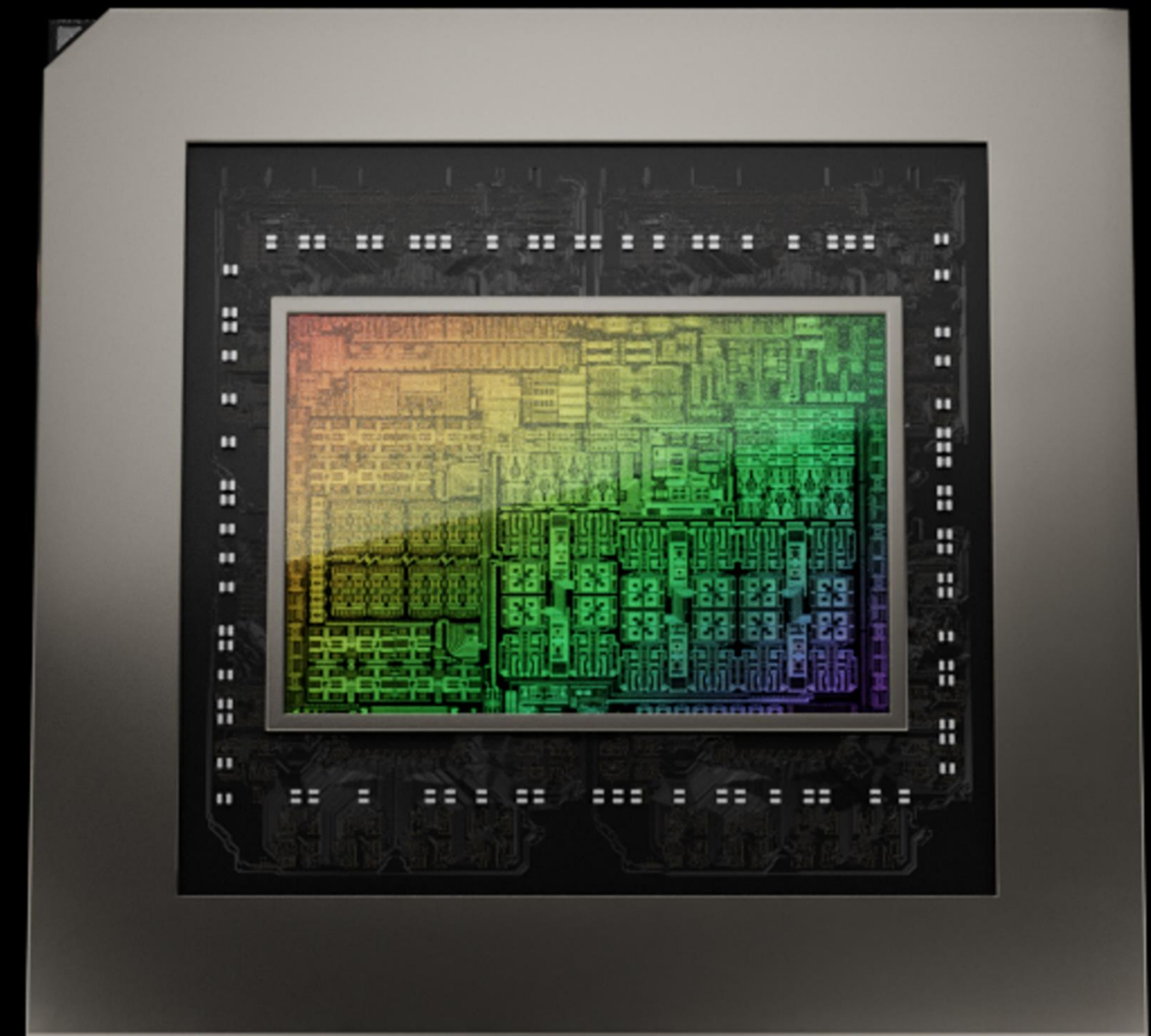
Autonomous driving and robotics processor optimized for generative AI

Blackwell GPU With Generative AI Engine

- FP32, 16, 8, and now 4-bit floating point AI support
- Quantization aware training and deployment with 4-bit computation
- Up to 1,000 INT8 TOPS raw deep learning performance
- Up to 2,000 FP4 TFLOPS. >20x peak Floating Point throughput vs. Orin, enabling high-throughput LLM inference

High-Performance ARM Neoverse V3AE CPU

- High single-thread performance necessary for decision and control
- 2.3x performance SPECrate[®]2017_int_base vs Orin (est.)



Automotive Hardware and Software Development Kit

Open and scalable platform purpose-built for automotive

Rich IO for Development, Sensors, and Vehicle Bus

- Vehicle Bus, GMSL 2 & 3, Ethernet, PCIe, USB, DisplayPort
- ISO 26262-compliant sensors supported through partners

Software Included

- [DriveOS](#) with DriveWorks
- Middleware, tools, and algorithms
- ISO 26262 safety certifiable DriveOS
- QNX, drivers, and platform APIs

Safe and Performant Compute Platform

- DRIVE Thor SoC with CUDA Tensor Core GPU and Neoverse V3AE ARM64 CPU
- Architected for safety with production boards available through Tier1s

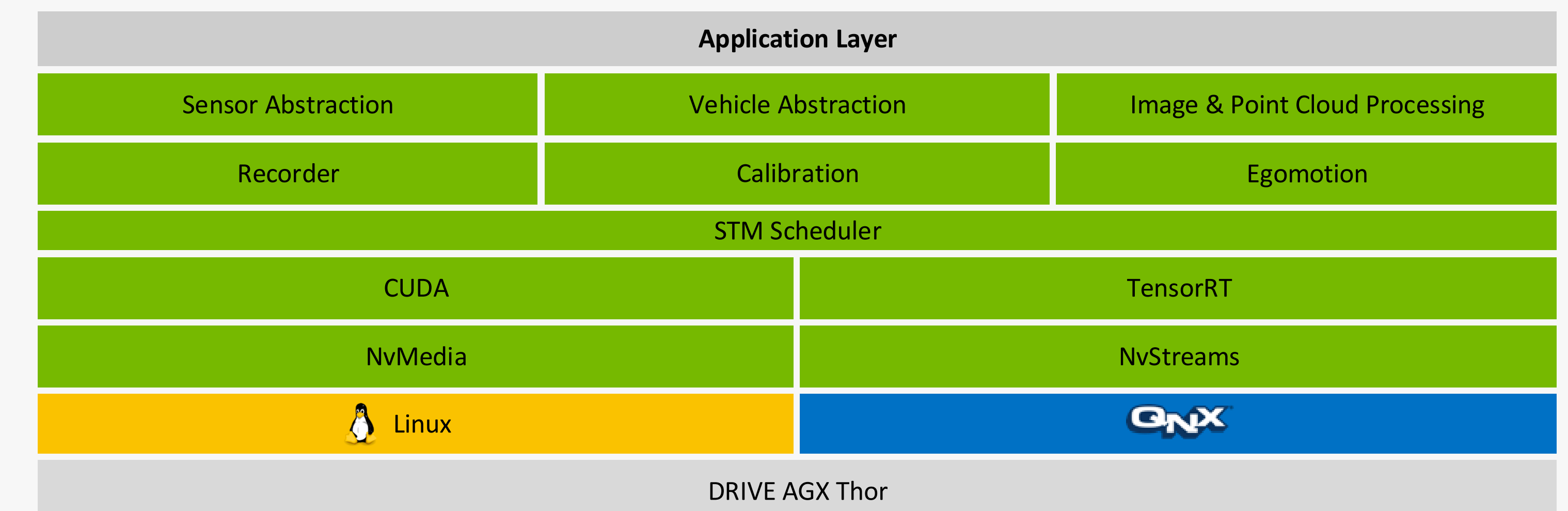
DRIVE AGX Thor DevKit

DriveOS—Automotive System Software
Auto-grade Silicon and IO
Up to 1000 INT8 TOPS | 350 W



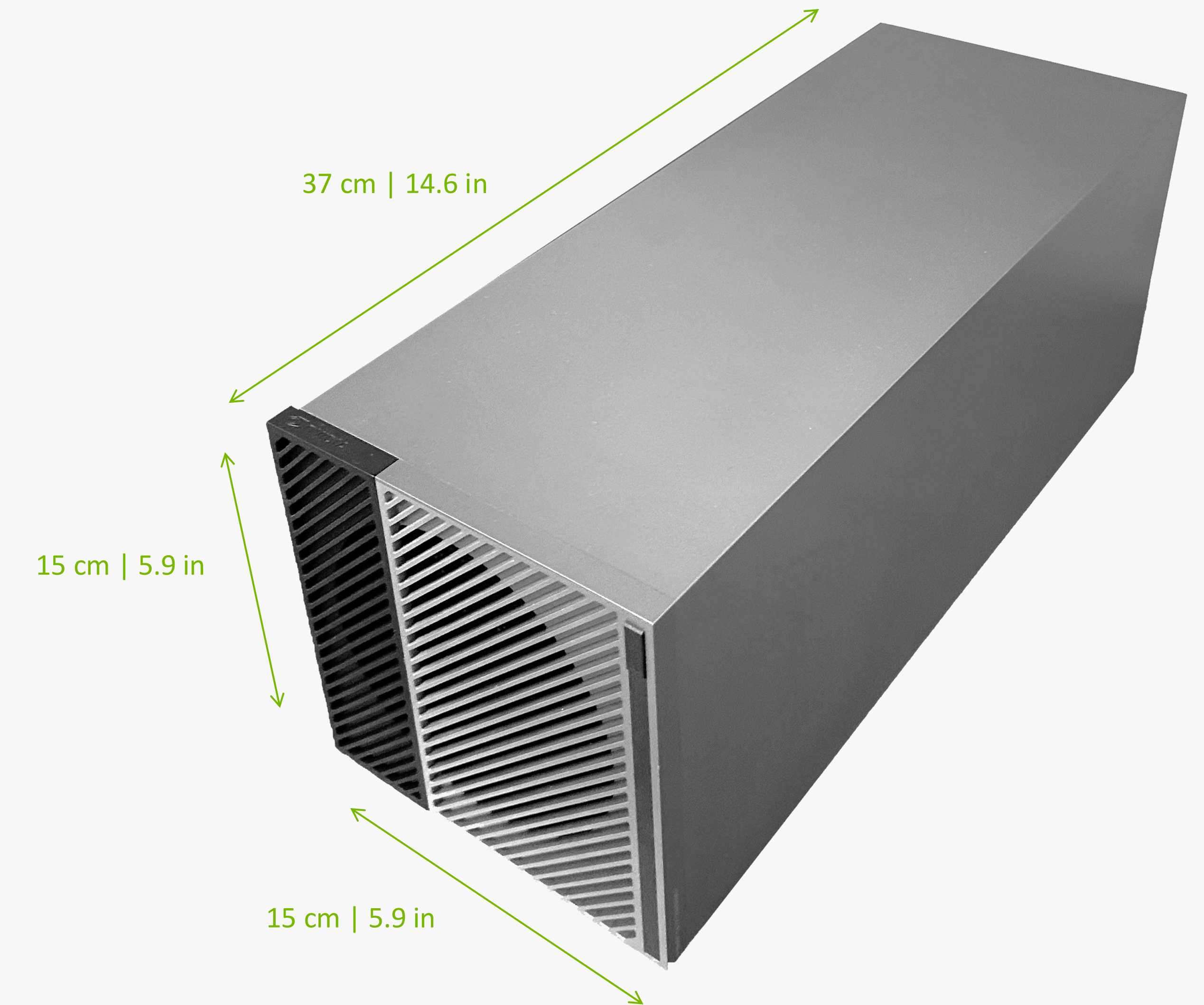
General access target Q4 2025

[Buy Now](#)



Spec Overview

Components		
Thor SoC	GPU	Integrated Blackwell CUDA Tensor Core GPU
	Accelerators	Programmable Vision Accelerator (PVA) Optical Flow Accelerator (OFA)
	CPU	ARM Neoverse V3AE. Arm64 (v9.2-A), SMP
Safety MCU		Renesas U2A16
Storage		256 GB UFS
Power Supply		Built-In
Vehicle Wiring Harness		Additional Accessory
Performance		
DL Inference	Up to 1,000 INT8 TOPS 2,000 FP4 FLOPS	
Memory Bandwidth	273 GB/s	
System RAM	64 GB LPDDR5X at 4266 MHz	
Operating Parameters		
Temperature	0 to 35°C (SKU10) 0 to 45°C (SKU12)	
System Power	350 W	
Voltage	9 V to 16 V (Static), 7 V to 32 V (Transient)	



System weight: ~6.2 kg | ~14 lbs

Bench and In-Vehicle Developer Kit

SKU10 and SKU12



Bench DevKit
SKU10

AC Power Supply in Chassis
110 ~ 240 V input

Power cords and vehicle harnesses available
separately for CAN, audio, etc. bench
development



In-Vehicle DevKit
SKU12

DC Power Connector
9 ~ 16 V input

Direct supply from vehicle main battery

Vehicle harnesses and mounting plate
included for in-vehicle installation

Cables, Splitters, and Adapters

**Two DRIVE AGX Thor DevKits will
be available for order:**

- **Bench DevKit (SKU10)** is for lab use with built-in power supply for AC; regional power cords are available for purchase separately
- **In-Vehicle DevKit (SKU12)** is for installation in the vehicle; comes with DC power connector and vehicle harnesses
- Specific accessories are available for purchase separately (power cords, vehicle harness, 10 GbE NIC adapter)

To learn more, see [DRIVE AGX Autonomous Vehicle Development Platform](#)

Pictures shown may not be the final product

Auto-Grade and Development Interfaces

Ethernet	2x	100/1000/10G-T1	4-port H-MTD ¹	Light Green
	3x	100/1000/10G-T1	6-port H-MTD ¹	
Camera	3x	GMSL2 MAX96724	Quad Fakra ¹	Yellow
	1x	GMSL2 MAX96712	Quad Fakra ¹	
	1x	GMSL3 MAX96792 ²	Quad Fakra ¹	
USB	1x	USB 3.2 (U1 for data)	USB-C	Pink
	1x	USB 3.2 (U2 for flashing)	USB-C	
	1x	USB 2.0 (U3 for data)	USB-C	
	1x	USB 2.0 (Debug)	USB-C	
Display	2x	GMSL3 MAX96851/96861	Quad Fakra ¹	Purple
	1x	DisplayPort out, up to 4K@60Hz	DisplayPort	
PCIe	2x 1x	PCIe x2 or PCIe x4	MiniSAS HD	Light Blue
Wiring Harness	2x	4x CAN, 1x FlexRay, 1x LIN, 2+1x A2B, 2x USS	Vehicle Harness Connector ^{1,3}	Light Cyan

¹Auto-grade connectors

²Only 2 of 4 ports available

³Vehicle harness connector not compatible with DRIVE AGX Orin DevKit



Frequently Asked Questions

Questions

Can I still purchase a DRIVE AGX Orin DevKit?

Answer

Yes, DRIVE AGX Orin DevKits will still be available for purchase. See [DRIVE AGX Autonomous Vehicle Development Platform | NVIDIA Developer](#) for more details.

When can I purchase a DRIVE AGX Thor DevKit?

You may order DRIVE AGX Thor DevKits, SKU10 for bench and SKU12 for in-vehicle. Lead time is 6 to 10 weeks.

Where can I purchase a DRIVE AGX Thor DevKit?

DRIVE AGX Thor General Access DevKits, SKU10 for bench and SKU12 for in-vehicle, may be ordered from one of our authorized distributors. See [DRIVE AGX Autonomous Vehicle Development Platform | NVIDIA Developer](#) for more details.

Will I be able to purchase a vehicle accessory kit (that was available for DRIVE AGX Orin) for DRIVE AGX Thor SKU10 for bench?

No, we will not separately sell a vehicle accessory kit. DRIVE AGX Thor SKU12 for in-vehicle should be used in the vehicle.

