

# Global Autonomous Driving GPU Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Autonomous Driving GPU Chip market size was valued at US\$ 3614 million in 2025 and is forecast to a readjusted size of US\$ 7651 million by 2032 with a CAGR of 11.5% during review period.

An Autonomous Driving GPU Chip is a compute processor designed specifically for autonomous driving systems, meeting automotive-grade requirements for reliability, functional safety, and long-term operation, and serving as a core acceleration engine within ADAS or autonomous driving domain controllers and centralized compute platforms. Its primary purpose is to handle massive, highly parallel workloads such as sensor data processing, perception, sensor fusion, visualization, and increasingly AI inference under strict constraints on power consumption, thermal dissipation, real-time determinism, and safety certification. Historically, the technology evolved from early stages where consumer GPUs were used mainly for research and prototyping, to automotive-adapted parallel processors, and ultimately to today's tightly integrated autonomous driving compute platforms in which the GPU works alongside CPUs, AI accelerators, ISPs, and safety subsystems as part of a unified heterogeneous architecture. Upstream, the supply chain spans semiconductor raw materials (silicon wafers, epitaxial layers, advanced packaging substrates, thermal interface materials), manufacturing and packaging inputs, and essential components and processes such as automotive-grade foundry services, advanced packaging and testing, memory devices, power management components, high-speed interconnects, and qualified passive components, all of which underpin the performance, safety, and production scalability of autonomous driving GPU chips. In 2025, global production capacity for autonomous driving GPU chips is estimated at 15 million units, while sales reached approximately

11.24 million units. The average selling price is about USD 312.4 per chip, and gross margins across suppliers generally range between 50% and 70%.

The current market is characterized by growing concentration and platform-oriented adoption, with autonomous driving programs increasingly centered on solutions that are production-ready, verifiable, and sustainable over long vehicle lifecycles. OEMs and Tier-1 suppliers place greater emphasis on real-world stability, consistency under multi-sensor concurrency, and alignment with vehicle E/E architectures than on raw peak performance. GPU capabilities are typically evaluated as part of an integrated autonomous driving compute platform, where their value lies in visualization, development and debugging efficiency, model validation, and data replay workflows. As a result, mature solutions with proven ecosystems tend to be reused across programs, while new entrants face extended validation cycles before achieving broad deployment.

Looking ahead, evolution will be driven by changes in workload structure, stronger requirements for system determinism, and deeper software industrialization. Autonomous driving workloads continue to move toward long-running, multi-task operation, raising expectations for sustained performance, memory efficiency, and predictable scheduling, and pushing tighter coordination between GPUs and other heterogeneous compute units. At the vehicle level, increasing safety and real-time constraints will accelerate the adoption of refined isolation, partitioning, and redundancy mechanisms to ensure predictable behavior under complex parallel execution. At the same time, software becomes central to differentiation: robust model deployment pipelines, version control, OTA updates, and traceability are becoming essential capabilities, and the maturity and maintainability of GPU software stacks will strongly influence platform longevity.

Key drivers include the rising complexity of autonomous driving functions, the need for higher development efficiency, and OEM demands for safety assurance and long-term cost control. Advanced driver assistance and automation require powerful parallel computing and effective visualization tools, while regulatory and liability considerations push systems toward verifiable and explainable operation. However, constraints remain significant: automotive-grade functional safety and reliability validation is time-consuming and expensive, real-time predictability under mixed GPU workloads is technically challenging, and long-term supply stability places pressure on both vendors and customers. In addition, ecosystem lock-in and limited tooling transparency can reduce OEM control and flexibility, making platform choices difficult to reverse once vehicles enter production. Together, these factors shape both the pace of adoption and the competitive landscape of the market.

This report is a detailed and comprehensive analysis for global Autonomous Driving GPU Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Autonomous Driving GPU Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Autonomous Driving GPU Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Autonomous Driving GPU Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Autonomous Driving GPU Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Autonomous Driving GPU Chip

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Autonomous Driving GPU Chip market based on the following parameters - company overview, sales quantity, revenue, price,

gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, Qualcomm, Mobileye, Horizon Robotics, Black Sesame Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Autonomous Driving GPU Chip market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Discrete GPU

Integrated GPU

### Market segment by Compute Performance Tier

Entry-Level

Mainstream

High-Performance

Ultra-High Performance

### Market segment by Workload Focus

Graphics-Centric

Vision-Centric

AI Inference-Centric

Mixed Workloads

#### Market segment by Application

Commercial Vehicles

Passenger Vehicles

#### Major players covered

NVIDIA

Qualcomm

Mobileye

Horizon Robotics

Black Sesame Technologies

#### Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Autonomous Driving GPU Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Autonomous Driving GPU Chip, with price, sales quantity, revenue, and global market share of Autonomous Driving GPU Chip from 2021 to 2026.

Chapter 3, the Autonomous Driving GPU Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Autonomous Driving GPU Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Autonomous Driving GPU Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Autonomous Driving GPU Chip.

Chapter 14 and 15, to describe Autonomous Driving GPU Chip sales channel, distributors, customers, research findings and conclusion.

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