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Global Automotive 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 Automotive GPU Chip market size was valued at US$ 4991 million in 2025 and is forecast to a readjusted size of US$ 10268 million by 2032 with a CAGR of 11.0% during review period.

An Automotive GPU Chip is a graphics and massively parallel compute processor designed to meet automotive-grade requirements?wide temperature range, vibration tolerance, long service life, functional safety, and high reliability?appearing either as a discrete GPU (less common) or, more typically, as the GPU subsystem inside an infotainment/instrument/central-compute/ADAS SoC. It addresses the core gap between ?consumer-electronics-like? in-vehicle experiences and real-time, safety-constrained vehicle operation by enabling smooth multi-display rendering, 3D HMI, navigation and map compositing, AR-HUD pipelines, surround-view visualization, high-throughput video encode/decode, and increasingly GPU-parallel acceleration for AI inference and sensor fusion, all under strict power, thermal, EMC, and ASIL-oriented constraints. Historically, the category evolved from early head units dominated by MCUs and basic 2D acceleration, to smartphone-derived GPU architectures powering modern digital cockpits with multi-screen 3D UI and rich media, and further into centralized domain controllers where GPU, CPU, NPU, ISP, and safety islands are tightly integrated into automotive compute platforms backed by mature software stacks (drivers, real-time OS/hypervisors, middleware, and AI frameworks) that make performance reusable and behavior certifiable. Upstream, the supply chain spans foundational materials and manufacturing inputs (silicon wafers and epitaxy, lithography chemicals, specialty gases and targets, advanced packaging substrates and interconnect materials, thermal interface materials and mechanical parts), and critical components and services such as IP/EDA enablement, automotive-grade foundry processes, packaging/test and reliability

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qualification, memories (DRAM/LPDDR and Flash), power management and power devices (PMICs and DC-DC converters), high-reliability clocks/oscillators, high-speed automotive interconnects and transceivers (PCIe/Ethernet/SerDes), plus passives?together enabling scalable production and the quality/continuity demanded by OEM programs.In 2025, global production capacity for automotive GPU chips is estimated at 20 million units, while sales reached approximately 17.32 million units. The average selling price is about USD 280 per chip, and gross margins across suppliers generally range between 50% and 70%.

The market today is defined by broadening demand, converging system architectures, and tiered competition. On the demand side, digital cockpits push multi-display, high-resolution, 3D-rich interfaces and media workloads, while automated driving pushes visualization-heavy development workflows and real-time inference requirements into domain controllers?making GPU capability a shared backbone for both graphics and parallel compute. Architecturally, the industry is moving from scattered ECUs toward consolidated cockpit/ADAS domain controllers and, increasingly, centralized compute platforms. As a result, competition is less about isolated peak metrics and more about platform delivery: a cohesive stack of hardware, drivers and graphics runtime, AI tooling, virtualization and safety isolation, automotive-grade qualification, and tight integration with OEM software architectures. Procurement follows the same shift?buyers increasingly evaluate complete platforms (silicon plus board support, middleware, reference designs, and ecosystem) rather than a single chip, which amplifies lock-in and raises the barrier for entrants who only compete on one headline specification.

Looking forword, the trajectory stacks three themes: higher sustained performance and efficiency, deeper software-defined differentiation, and tighter heterogenous coordination. Workloads will keep mixing?UI rendering, video pipelines, mapping and AR overlays, alongside visualization for perception and growing AI inference?so architectures will prioritize deterministic behavior, thermal discipline, and controllable latency as much as raw throughput. Software becomes the decisive battleground: more mature graphics APIs and rendering frameworks, unified AI deployment pipelines, robust profiling and diagnostics, and OTA-friendly lifecycle management all turn into selection gatekeepers. Virtualization and partitioning will become more prevalent as OEMs isolate cockpit, cluster, and ADAS into separate safety domains, pushing GPU resources to be scheduled and shared with finer-grained control. With faster in-vehicle networks and interconnects, GPU capability may also become more composable?local acceleration for low-latency graphics and critical tasks, coordinated with higher-power compute elsewhere for heavier inference and iterative updates?forming a cooperative,

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cross-domain compute topology.

The engines of growth come from user experience expectations, regulatory/safety requirements, and engineering productivity goals: smoother and more consistent cockpit experiences, faster ADAS development and iteration, and OEM pressure to reduce ECU fragmentation while shortening development cycles and long-term maintenance burden. The blockers, however, are equally structural. Automotive-grade reliability and functional safety qualification impose long, expensive verification loops, and even ?small? changes in drivers, firmware, or scheduling can trigger system-level re-validation. GPU workloads are inherently less predictable under mixed rendering-and-AI concurrency, making real-time guarantees and isolation a hard engineering problem. Supply-chain and lifecycle constraints are unforgiving?OEMs expect long-term availability and consistency, while advanced silicon and packaging evolve rapidly and don?t naturally align with automotive timelines. Finally, ecosystem and IP boundaries shape collaboration: tooling transparency, compiler and driver accessibility, and the degree of standards and open-source alignment can determine long-term flexibility, turning platform choice into a multi-year strategic commitment. In practice, market gravity tends to favor platforms that are not only fast, but deliverable, certifiable, and maintainable over time.

This report is a detailed and comprehensive analysis for global Automotive 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 Automotive GPU Chip market size and forecasts, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Automotive 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 Automotive GPU Chip market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices

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(US$/Pcs), 2021-2032

Global Automotive 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 Automotive 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 Automotive 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, Renesas Electronics, Samsung Electronics, MediaTek, SemiDrive, UNISOC, SiEngine, etc.

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

Market Segmentation

Automotive 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

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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

- ADAS
- Automatic Driving
- Central Control Information System
- Other

Major players covered

- NVIDIA
- Qualcomm

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Renesas Electronics

Samsung Electronics

MediaTek

SemiDrive

UNISOC

SiEngine

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 Automotive GPU Chip product scope, market overview, market estimation caveats and base year.

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

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

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Chapter 4, the Automotive 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 Automotive 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 Automotive GPU Chip.

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

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Automotive GPU Chip Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Discrete GPU
  1.3.3 Integrated GPU
1.4 Market Analysis by Compute Performance Tier
  1.4.1 Overview: Global Automotive GPU Chip Consumption Value by Compute Performance Tier: 2021 Versus 2025 Versus 2032
  1.4.2 Entry-Level
  1.4.3 Mainstream
  1.4.4 High-Performance
  1.4.5 Ultra-High Performance
1.5 Market Analysis by Workload Focus
  1.5.1 Overview: Global Automotive GPU Chip Consumption Value by Workload Focus: 2021 Versus 2025 Versus 2032
  1.5.2 Graphics-Centric
  1.5.3 Vision-Centric
  1.5.4 AI Inference-Centric
  1.5.5 Mixed Workloads
1.6 Market Analysis by Application
  1.6.1 Overview: Global Automotive GPU Chip Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.6.2 ADAS
  1.6.3 Automatic Driving
  1.6.4 Central Control Information System
  1.6.5 Other
1.7 Global Automotive GPU Chip Market Size & Forecast
  1.7.1 Global Automotive GPU Chip Consumption Value (2021 & 2025 & 2032)
  1.7.2 Global Automotive GPU Chip Sales Quantity (2021-2032)
  1.7.3 Global Automotive GPU Chip Average Price (2021-2032)

2 MANUFACTURERS PROFILES

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2.1 NVIDIA
2.1.1 NVIDIA Details
2.1.2 NVIDIA Major Business
2.1.3 NVIDIA Automotive GPU Chip Product and Services
2.1.4 NVIDIA Automotive GPU Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 NVIDIA Recent Developments/Updates
2.2 Qualcomm
2.2.1 Qualcomm Details
2.2.2 Qualcomm Major Business
2.2.3 Qualcomm Automotive GPU Chip Product and Services
2.2.4 Qualcomm Automotive GPU Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Qualcomm Recent Developments/Updates
2.3 Renesas Electronics
2.3.1 Renesas Electronics Details
2.3.2 Renesas Electronics Major Business
2.3.3 Renesas Electronics Automotive GPU Chip Product and Services
2.3.4 Renesas Electronics Automotive GPU Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Renesas Electronics Recent Developments/Updates
2.4 Samsung Electronics
2.4.1 Samsung Electronics Details
2.4.2 Samsung Electronics Major Business
2.4.3 Samsung Electronics Automotive GPU Chip Product and Services
2.4.4 Samsung Electronics Automotive GPU Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 Samsung Electronics Recent Developments/Updates
2.5 MediaTek
2.5.1 MediaTek Details
2.5.2 MediaTek Major Business
2.5.3 MediaTek Automotive GPU Chip Product and Services
2.5.4 MediaTek Automotive GPU Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 MediaTek Recent Developments/Updates
2.6 SemiDrive
2.6.1 SemiDrive Details
2.6.2 SemiDrive Major Business
2.6.3 SemiDrive Automotive GPU Chip Product and Services

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2.6.4 SemiDrive Automotive GPU Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 SemiDrive Recent Developments/Updates
2.7 UNISOC
2.7.1 UNISOC Details
2.7.2 UNISOC Major Business
2.7.3 UNISOC Automotive GPU Chip Product and Services
2.7.4 UNISOC Automotive GPU Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 UNISOC Recent Developments/Updates
2.8 SiEngine
2.8.1 SiEngine Details
2.8.2 SiEngine Major Business
2.8.3 SiEngine Automotive GPU Chip Product and Services
2.8.4 SiEngine Automotive GPU Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 SiEngine Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE GPU CHIP BY MANUFACTURER

3.1 Global Automotive GPU Chip Sales Quantity by Manufacturer (2021-2026)
3.2 Global Automotive GPU Chip Revenue by Manufacturer (2021-2026)
3.3 Global Automotive GPU Chip Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of Automotive GPU Chip by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Automotive GPU Chip Manufacturer Market Share in 2025
3.4.3 Top 6 Automotive GPU Chip Manufacturer Market Share in 2025
3.5 Automotive GPU Chip Market: Overall Company Footprint Analysis
3.5.1 Automotive GPU Chip Market: Region Footprint
3.5.2 Automotive GPU Chip Market: Company Product Type Footprint
3.5.3 Automotive GPU Chip Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Automotive GPU Chip Market Size by Region
4.1.1 Global Automotive GPU Chip Sales Quantity by Region (2021-2032)

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4.1.2 Global Automotive GPU Chip Consumption Value by Region (2021-2032)
4.1.3 Global Automotive GPU Chip Average Price by Region (2021-2032)
4.2 North America Automotive GPU Chip Consumption Value (2021-2032)
4.3 Europe Automotive GPU Chip Consumption Value (2021-2032)
4.4 Asia-Pacific Automotive GPU Chip Consumption Value (2021-2032)
4.5 South America Automotive GPU Chip Consumption Value (2021-2032)
4.6 Middle East & Africa Automotive GPU Chip Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Automotive GPU Chip Sales Quantity by Type (2021-2032)
5.2 Global Automotive GPU Chip Consumption Value by Type (2021-2032)
5.3 Global Automotive GPU Chip Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Automotive GPU Chip Sales Quantity by Application (2021-2032)
6.2 Global Automotive GPU Chip Consumption Value by Application (2021-2032)
6.3 Global Automotive GPU Chip Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Automotive GPU Chip Sales Quantity by Type (2021-2032)
7.2 North America Automotive GPU Chip Sales Quantity by Application (2021-2032)
7.3 North America Automotive GPU Chip Market Size by Country
7.3.1 North America Automotive GPU Chip Sales Quantity by Country (2021-2032)
7.3.2 North America Automotive GPU Chip Consumption Value by Country (2021-2032)
7.3.3 United States Market Size and Forecast (2021-2032)
7.3.4 Canada Market Size and Forecast (2021-2032)
7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Automotive GPU Chip Sales Quantity by Type (2021-2032)
8.2 Europe Automotive GPU Chip Sales Quantity by Application (2021-2032)
8.3 Europe Automotive GPU Chip Market Size by Country
8.3.1 Europe Automotive GPU Chip Sales Quantity by Country (2021-2032)
8.3.2 Europe Automotive GPU Chip Consumption Value by Country (2021-2032)

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8.3.3 Germany Market Size and Forecast (2021-2032)
8.3.4 France Market Size and Forecast (2021-2032)
8.3.5 United Kingdom Market Size and Forecast (2021-2032)
8.3.6 Russia Market Size and Forecast (2021-2032)
8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Automotive GPU Chip Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Automotive GPU Chip Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Automotive GPU Chip Market Size by Region
9.3.1 Asia-Pacific Automotive GPU Chip Sales Quantity by Region (2021-2032)
9.3.2 Asia-Pacific Automotive GPU Chip Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)
9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Automotive GPU Chip Sales Quantity by Type (2021-2032)
10.2 South America Automotive GPU Chip Sales Quantity by Application (2021-2032)
10.3 South America Automotive GPU Chip Market Size by Country
10.3.1 South America Automotive GPU Chip Sales Quantity by Country (2021-2032)
10.3.2 South America Automotive GPU Chip Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Automotive GPU Chip Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Automotive GPU Chip Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Automotive GPU Chip Market Size by Country
11.3.1 Middle East & Africa Automotive GPU Chip Sales Quantity by Country (2021-2032)

+357 96 030922
info@marketpublishers.com

11.3.2 Middle East & Africa Automotive GPU Chip Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Automotive GPU Chip Market Drivers
12.2 Automotive GPU Chip Market Restraints
12.3 Automotive GPU Chip Trends Analysis
12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants
12.4.2 Bargaining Power of Suppliers
12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Automotive GPU Chip and Key Manufacturers
13.2 Manufacturing Costs Percentage of Automotive GPU Chip
13.3 Automotive GPU Chip Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 Automotive GPU Chip Typical Distributors
14.3 Automotive GPU Chip Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

+357 96 030922
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16.2 Research Process and Data Source
16.3 Disclaimer

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info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global Automotive GPU Chip Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Automotive GPU Chip Consumption Value by Compute Performance Tier, (USD Million), 2021 & 2025 & 2032
Table 3. Global Automotive GPU Chip Consumption Value by Workload Focus, (USD Million), 2021 & 2025 & 2032
Table 4. Global Automotive GPU Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 5. NVIDIA Basic Information, Manufacturing Base and Competitors
Table 6. NVIDIA Major Business
Table 7. NVIDIA Automotive GPU Chip Product and Services
Table 8. NVIDIA Automotive GPU Chip Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 9. NVIDIA Recent Developments/Updates
Table 10. Qualcomm Basic Information, Manufacturing Base and Competitors
Table 11. Qualcomm Major Business
Table 12. Qualcomm Automotive GPU Chip Product and Services
Table 13. Qualcomm Automotive GPU Chip Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 14. Qualcomm Recent Developments/Updates
Table 15. Renesas Electronics Basic Information, Manufacturing Base and Competitors
Table 16. Renesas Electronics Major Business
Table 17. Renesas Electronics Automotive GPU Chip Product and Services
Table 18. Renesas Electronics Automotive GPU Chip Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 19. Renesas Electronics Recent Developments/Updates
Table 20. Samsung Electronics Basic Information, Manufacturing Base and Competitors
Table 21. Samsung Electronics Major Business
Table 22. Samsung Electronics Automotive GPU Chip Product and Services
Table 23. Samsung Electronics Automotive GPU Chip Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. Samsung Electronics Recent Developments/Updates
Table 25. MediaTek Basic Information, Manufacturing Base and Competitors
Table 26. MediaTek Major Business
Table 27. MediaTek Automotive GPU Chip Product and Services

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info@marketpublishers.com

Table 28. MediaTek Automotive GPU Chip Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. MediaTek Recent Developments/Updates
Table 30. SemiDrive Basic Information, Manufacturing Base and Competitors
Table 31. SemiDrive Major Business
Table 32. SemiDrive Automotive GPU Chip Product and Services
Table 33. SemiDrive Automotive GPU Chip Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. SemiDrive Recent Developments/Updates
Table 35. UNISOC Basic Information, Manufacturing Base and Competitors
Table 36. UNISOC Major Business
Table 37. UNISOC Automotive GPU Chip Product and Services
Table 38. UNISOC Automotive GPU Chip Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. UNISOC Recent Developments/Updates
Table 40. SiEngine Basic Information, Manufacturing Base and Competitors
Table 41. SiEngine Major Business
Table 42. SiEngine Automotive GPU Chip Product and Services
Table 43. SiEngine Automotive GPU Chip Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. SiEngine Recent Developments/Updates
Table 45. Global Automotive GPU Chip Sales Quantity by Manufacturer (2021-2026) & (K Pcs)
Table 46. Global Automotive GPU Chip Revenue by Manufacturer (2021-2026) & (USD Million)
Table 47. Global Automotive GPU Chip Average Price by Manufacturer (2021-2026) & (US$/Pcs)
Table 48. Market Position of Manufacturers in Automotive GPU Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 49. Head Office and Automotive GPU Chip Production Site of Key Manufacturer
Table 50. Automotive GPU Chip Market: Company Product Type Footprint
Table 51. Automotive GPU Chip Market: Company Product Application Footprint
Table 52. Automotive GPU Chip New Market Entrants and Barriers to Market Entry
Table 53. Automotive GPU Chip Mergers, Acquisition, Agreements, and Collaborations
Table 54. Global Automotive GPU Chip Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 55. Global Automotive GPU Chip Sales Quantity by Region (2021-2026) & (K Pcs)
Table 56. Global Automotive GPU Chip Sales Quantity by Region (2027-2032) & (K

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info@marketpublishers.com

Pcs)
Table 57. Global Automotive GPU Chip Consumption Value by Region (2021-2026) & (USD Million)
Table 58. Global Automotive GPU Chip Consumption Value by Region (2027-2032) & (USD Million)
Table 59. Global Automotive GPU Chip Average Price by Region (2021-2026) & (US$/Pcs)
Table 60. Global Automotive GPU Chip Average Price by Region (2027-2032) & (US$/Pcs)
Table 61. Global Automotive GPU Chip Sales Quantity by Type (2021-2026) & (K Pcs)
Table 62. Global Automotive GPU Chip Sales Quantity by Type (2027-2032) & (K Pcs)
Table 63. Global Automotive GPU Chip Consumption Value by Type (2021-2026) & (USD Million)
Table 64. Global Automotive GPU Chip Consumption Value by Type (2027-2032) & (USD Million)
Table 65. Global Automotive GPU Chip Average Price by Type (2021-2026) & (US$/Pcs)
Table 66. Global Automotive GPU Chip Average Price by Type (2027-2032) & (US$/Pcs)
Table 67. Global Automotive GPU Chip Sales Quantity by Application (2021-2026) & (K Pcs)
Table 68. Global Automotive GPU Chip Sales Quantity by Application (2027-2032) & (K Pcs)
Table 69. Global Automotive GPU Chip Consumption Value by Application (2021-2026) & (USD Million)
Table 70. Global Automotive GPU Chip Consumption Value by Application (2027-2032) & (USD Million)
Table 71. Global Automotive GPU Chip Average Price by Application (2021-2026) & (US$/Pcs)
Table 72. Global Automotive GPU Chip Average Price by Application (2027-2032) & (US$/Pcs)
Table 73. North America Automotive GPU Chip Sales Quantity by Type (2021-2026) & (K Pcs)
Table 74. North America Automotive GPU Chip Sales Quantity by Type (2027-2032) & (K Pcs)
Table 75. North America Automotive GPU Chip Sales Quantity by Application (2021-2026) & (K Pcs)
Table 76. North America Automotive GPU Chip Sales Quantity by Application (2027-2032) & (K Pcs)

+357 96 030922
info@marketpublishers.com

Table 77. North America Automotive GPU Chip Sales Quantity by Country (2021-2026) & (K Pcs)
Table 78. North America Automotive GPU Chip Sales Quantity by Country (2027-2032) & (K Pcs)
Table 79. North America Automotive GPU Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 80. North America Automotive GPU Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 81. Europe Automotive GPU Chip Sales Quantity by Type (2021-2026) & (K Pcs)
Table 82. Europe Automotive GPU Chip Sales Quantity by Type (2027-2032) & (K Pcs)
Table 83. Europe Automotive GPU Chip Sales Quantity by Application (2021-2026) & (K Pcs)
Table 84. Europe Automotive GPU Chip Sales Quantity by Application (2027-2032) & (K Pcs)
Table 85. Europe Automotive GPU Chip Sales Quantity by Country (2021-2026) & (K Pcs)
Table 86. Europe Automotive GPU Chip Sales Quantity by Country (2027-2032) & (K Pcs)
Table 87. Europe Automotive GPU Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 88. Europe Automotive GPU Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 89. Asia-Pacific Automotive GPU Chip Sales Quantity by Type (2021-2026) & (K Pcs)
Table 90. Asia-Pacific Automotive GPU Chip Sales Quantity by Type (2027-2032) & (K Pcs)
Table 91. Asia-Pacific Automotive GPU Chip Sales Quantity by Application (2021-2026) & (K Pcs)
Table 92. Asia-Pacific Automotive GPU Chip Sales Quantity by Application (2027-2032) & (K Pcs)
Table 93. Asia-Pacific Automotive GPU Chip Sales Quantity by Region (2021-2026) & (K Pcs)
Table 94. Asia-Pacific Automotive GPU Chip Sales Quantity by Region (2027-2032) & (K Pcs)
Table 95. Asia-Pacific Automotive GPU Chip Consumption Value by Region (2021-2026) & (USD Million)
Table 96. Asia-Pacific Automotive GPU Chip Consumption Value by Region (2027-2032) & (USD Million)
Table 97. South America Automotive GPU Chip Sales Quantity by Type (2021-2026) &

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(K Pcs)
Table 98. South America Automotive GPU Chip Sales Quantity by Type (2027-2032) & (K Pcs)
Table 99. South America Automotive GPU Chip Sales Quantity by Application (2021-2026) & (K Pcs)
Table 100. South America Automotive GPU Chip Sales Quantity by Application (2027-2032) & (K Pcs)
Table 101. South America Automotive GPU Chip Sales Quantity by Country (2021-2026) & (K Pcs)
Table 102. South America Automotive GPU Chip Sales Quantity by Country (2027-2032) & (K Pcs)
Table 103. South America Automotive GPU Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 104. South America Automotive GPU Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 105. Middle East & Africa Automotive GPU Chip Sales Quantity by Type (2021-2026) & (K Pcs)
Table 106. Middle East & Africa Automotive GPU Chip Sales Quantity by Type (2027-2032) & (K Pcs)
Table 107. Middle East & Africa Automotive GPU Chip Sales Quantity by Application (2021-2026) & (K Pcs)
Table 108. Middle East & Africa Automotive GPU Chip Sales Quantity by Application (2027-2032) & (K Pcs)
Table 109. Middle East & Africa Automotive GPU Chip Sales Quantity by Country (2021-2026) & (K Pcs)
Table 110. Middle East & Africa Automotive GPU Chip Sales Quantity by Country (2027-2032) & (K Pcs)
Table 111. Middle East & Africa Automotive GPU Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 112. Middle East & Africa Automotive GPU Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 113. Automotive GPU Chip Raw Material
Table 114. Key Manufacturers of Automotive GPU Chip Raw Materials
Table 115. Automotive GPU Chip Typical Distributors
Table 116. Automotive GPU Chip Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Automotive GPU Chip Picture
Figure 2. Global Automotive GPU Chip Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Automotive GPU Chip Revenue Market Share by Type in 2025
Figure 4. Discrete GPU Examples
Figure 5. Integrated GPU Examples
Figure 6. Global Automotive GPU Chip Revenue by Compute Performance Tier, (USD Million), 2021 & 2025 & 2032
Figure 7. Global Automotive GPU Chip Revenue Market Share by Compute Performance Tier in 2025
Figure 8. Entry-Level Examples
Figure 9. Mainstream Examples
Figure 10. High-Performance Examples
Figure 11. Ultra-High Performance Examples
Figure 12. Global Automotive GPU Chip Revenue by Workload Focus, (USD Million), 2021 & 2025 & 2032
Figure 13. Global Automotive GPU Chip Revenue Market Share by Workload Focus in 2025
Figure 14. Graphics-Centric Examples
Figure 15. Vision-Centric Examples
Figure 16. AI Inference-Centric Examples
Figure 17. Mixed Workloads Examples
Figure 18. Global Automotive GPU Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 19. Global Automotive GPU Chip Revenue Market Share by Application in 2025
Figure 20. ADAS Examples
Figure 21. Automatic Driving Examples
Figure 22. Central Control Information System Examples
Figure 23. Other Examples
Figure 24. Global Automotive GPU Chip Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 25. Global Automotive GPU Chip Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 26. Global Automotive GPU Chip Sales Quantity (2021-2032) & (K Pcs)
Figure 27. Global Automotive GPU Chip Price (2021-2032) & (US$/Pcs)

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Figure 28. Global Automotive GPU Chip Sales Quantity Market Share by Manufacturer in 2025
Figure 29. Global Automotive GPU Chip Revenue Market Share by Manufacturer in 2025
Figure 30. Producer Shipments of Automotive GPU Chip by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 31. Top 3 Automotive GPU Chip Manufacturer (Revenue) Market Share in 2025
Figure 32. Top 6 Automotive GPU Chip Manufacturer (Revenue) Market Share in 2025
Figure 33. Global Automotive GPU Chip Sales Quantity Market Share by Region (2021-2032)
Figure 34. Global Automotive GPU Chip Consumption Value Market Share by Region (2021-2032)
Figure 35. North America Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 36. Europe Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 37. Asia-Pacific Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 38. South America Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 39. Middle East & Africa Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 40. Global Automotive GPU Chip Sales Quantity Market Share by Type (2021-2032)
Figure 41. Global Automotive GPU Chip Consumption Value Market Share by Type (2021-2032)
Figure 42. Global Automotive GPU Chip Average Price by Type (2021-2032) & (US$/Pcs)
Figure 43. Global Automotive GPU Chip Sales Quantity Market Share by Application (2021-2032)
Figure 44. Global Automotive GPU Chip Revenue Market Share by Application (2021-2032)
Figure 45. Global Automotive GPU Chip Average Price by Application (2021-2032) & (US$/Pcs)
Figure 46. North America Automotive GPU Chip Sales Quantity Market Share by Type (2021-2032)
Figure 47. North America Automotive GPU Chip Sales Quantity Market Share by Application (2021-2032)
Figure 48. North America Automotive GPU Chip Sales Quantity Market Share by

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Country (2021-2032)
Figure 49. North America Automotive GPU Chip Consumption Value Market Share by Country (2021-2032)
Figure 50. United States Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 51. Canada Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 52. Mexico Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 53. Europe Automotive GPU Chip Sales Quantity Market Share by Type (2021-2032)
Figure 54. Europe Automotive GPU Chip Sales Quantity Market Share by Application (2021-2032)
Figure 55. Europe Automotive GPU Chip Sales Quantity Market Share by Country (2021-2032)
Figure 56. Europe Automotive GPU Chip Consumption Value Market Share by Country (2021-2032)
Figure 57. Germany Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 58. France Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 59. United Kingdom Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 60. Russia Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 61. Italy Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 62. Asia-Pacific Automotive GPU Chip Sales Quantity Market Share by Type (2021-2032)
Figure 63. Asia-Pacific Automotive GPU Chip Sales Quantity Market Share by Application (2021-2032)
Figure 64. Asia-Pacific Automotive GPU Chip Sales Quantity Market Share by Region (2021-2032)
Figure 65. Asia-Pacific Automotive GPU Chip Consumption Value Market Share by Region (2021-2032)
Figure 66. China Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 67. Japan Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 68. South Korea Automotive GPU Chip Consumption Value (2021-2032) & (USD

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Million)
Figure 69. India Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 70. Southeast Asia Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 71. Australia Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 72. South America Automotive GPU Chip Sales Quantity Market Share by Type (2021-2032)
Figure 73. South America Automotive GPU Chip Sales Quantity Market Share by Application (2021-2032)
Figure 74. South America Automotive GPU Chip Sales Quantity Market Share by Country (2021-2032)
Figure 75. South America Automotive GPU Chip Consumption Value Market Share by Country (2021-2032)
Figure 76. Brazil Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 77. Argentina Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 78. Middle East & Africa Automotive GPU Chip Sales Quantity Market Share by Type (2021-2032)
Figure 79. Middle East & Africa Automotive GPU Chip Sales Quantity Market Share by Application (2021-2032)
Figure 80. Middle East & Africa Automotive GPU Chip Sales Quantity Market Share by Country (2021-2032)
Figure 81. Middle East & Africa Automotive GPU Chip Consumption Value Market Share by Country (2021-2032)
Figure 82. Turkey Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 83. Egypt Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 84. Saudi Arabia Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 85. South Africa Automotive GPU Chip Consumption Value (2021-2032) & (USD Million)
Figure 86. Automotive GPU Chip Market Drivers
Figure 87. Automotive GPU Chip Market Restraints
Figure 88. Automotive GPU Chip Market Trends
Figure 89. Porters Five Forces Analysis
Figure 90. Manufacturing Cost Structure Analysis of Automotive GPU Chip in 2025

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Figure 91. Manufacturing Process Analysis of Automotive GPU Chip
Figure 92. Automotive GPU Chip Industrial Chain
Figure 93. Sales Channel: Direct to End-User vs Distributors
Figure 94. Direct Channel Pros & Cons
Figure 95. Indirect Channel Pros & Cons
Figure 96. Methodology
Figure 97. Research Process and Data Source

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