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Global Automotive Grade ASIC Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Grade ASIC Chip market size is expected to reach $ 4507 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Automotive grade ASIC chips are application-specific integrated circuits (ASICs) custom-developed for specific automotive functions. They are typically designed according to AEC-Q100, functional safety, and long-term reliability requirements, and are used in areas such as intelligent driving, cockpit, body control, battery management, powertrain systems, sensor interfaces, and communications. They are characterized by high integration, low power consumption, high reliability, and optimization for specific algorithms or functions.

Upstream industries mainly include EDA tools, semiconductor IP, wafers, photolithography materials, packaging substrates, lead frames, and testing equipment. Downstream industries are primarily used by automotive OEMs, Tier 1 suppliers, and in intelligent driving, smart cockpits, new energy powertrains, body electronics, vehicle networking, and automotive sensing systems.

The global average price of automotive grade ASIC chips is approximately $6.2 per unit, with sales of approximately 400-480 million units and an industry gross margin of 40%.

The future global automotive-grade ASIC chip market will be continuously driven by the electrification, intelligentization, and software-defined vehicles. With the upgrading of ADAS, domain controllers, central computing platforms, battery management, and smart cockpit functions, OEMs and Tier 1 suppliers will increase their demand for high-performance, low-power, and highly integrated application-specific integrated circuits

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(ASICs). ASICs will further integrate with AI acceleration, high-speed automotive communication, security encryption, and functional safety technologies, and will evolve towards advanced processes and chiplets, multi-chip packaging, and other directions. Meanwhile, the long certification cycles, long lifecycles, and high supply security requirements of automotive chips will drive localized design, long-term supply capabilities, and hardware-software synergy to become key competitive advantages.

Report Scope

This report studies the global Automotive Grade ASIC Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Grade ASIC Chip and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Grade ASIC Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Grade ASIC Chip total production and demand, 2021-2032, (Million Units)

Global Automotive Grade ASIC Chip total production value, 2021-2032, (USD Million)

Global Automotive Grade ASIC Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Automotive Grade ASIC Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive Grade ASIC Chip domestic production, consumption, key domestic manufacturers and share

Global Automotive Grade ASIC Chip production by manufacturer, production,

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price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Automotive Grade ASIC Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive Grade ASIC Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive Grade ASIC Chip market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon Technologies, STMicroelectronics, Bosch, Elmos Semiconductor, onsemi, Marvell, Renesas Electronics, Socionext, ROHM, VeriSilicon, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Grade ASIC Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Grade ASIC Chip Market, By Region:

United States

China

Europe

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Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Automotive Grade ASIC Chip Market, Segmentation by Type:

TPU

DPU

NPU

Others

Global Automotive Grade ASIC Chip Market, Segmentation by ASIC Type:

Digital ASIC

Analog ASIC

Mixed-Signal ASIC

Global Automotive Grade ASIC Chip Market, Segmentation by Vehicle Domain:

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ADAS & Autonomous Driving Domain

Cockpit Domain

Body Domain

Powertrain Domain

Chassis Domain

Zonal & Central Computing

Global Automotive Grade ASIC Chip Market, Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

Companies Profiled:

Infineon Technologies

STMicroelectronics

Bosch

Elmos Semiconductor

onsemi

Marvell

Renesas Electronics

Socionext

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ROHM

VeriSilicon

Horizon Robotics

ALPS ALPINE

SemiDrive

NOVOSENSE Microelectronics

ams Osram

Broadcom

Tesla

Qualcomm

Mobileye (Intel)

NXP

Marvel

Parity Electronics

Ruichuang Micronano

Bright Semiconductor

Key Questions Answered

1. How big is the global Automotive Grade ASIC Chip market?
2. What is the demand of the global Automotive Grade ASIC Chip market?
3. What is the year over year growth of the global Automotive Grade ASIC Chip market?

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4. What is the total value of the global Automotive Grade ASIC Chip market?
5. Who are the Major Players in the global Automotive Grade ASIC Chip market?
6. What are the growth factors driving the market demand?

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