

Global Semiconductor in Aerospace and Military Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor in Aerospace and Military market size was valued at US\$ 84211 million in 2025 and is forecast to a readjusted size of US\$ 129566 million by 2032 with a CAGR of 6.2% during review period.

Aerospace and military semiconductors refer to semiconductor devices and systems specifically designed for use in aviation, aerospace, defense, and military equipment, requiring high reliability, long lifespan, radiation resistance, shock resistance, and wide temperature range operation even in extreme environments. These products typically undergo stringent military-grade (MIL-STD) or aerospace-grade (ESA/NASA) quality certifications, and their design, manufacturing, packaging, and testing processes differ significantly from those of commercial semiconductors, focusing on 'high reliability, high environmental adaptability, and high security levels.' The aerospace and defense sectors have extremely high requirements for upstream semiconductors, including material purity, radiation resistance, reliability, and long-term supply capabilities. These mainly consist of the following categories: Semiconductor wafer materials (Silicon / SOI / GaAs / GaN / SiC), Optoelectronic and detection materials (InGaAs / HgCdTe / InP / SiGe), Packaging substrates and high-reliability packaging materials (Ceramic Package / Kovar / High-temperature solder), etc. Upstream, participants include SOITEC, GlobalWafers, Sumco, Teledyne Imaging, II-VI / Coherent and Hamamatsu, etc. Downstream: include Aerospace, Weapons, etc. and the key players include NASA, ESA, SpaceX, Lockheed Martin and CASC, etc.

Rapid expansion of satellites, space systems, and UAV platforms is accelerating demand for radiation-hardened, lightweight, and high-power semiconductor devices.

LEO/MEO constellations, Earth-observation payloads, optical sensors, inter-satellite links, and propulsion system controllers require rad-hard FPGAs, GaN/SiC power devices, and optoelectronic semiconductors. Large-scale deployment of military drones further boosts the need for navigation chips, MEMS sensors, and high-bandwidth communication ICs.

This report is a detailed and comprehensive analysis for global Semiconductor in Aerospace and Military market. Both quantitative and qualitative analyses are presented by company, 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 Semiconductor in Aerospace and Military market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Semiconductor in Aerospace and Military market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Semiconductor in Aerospace and Military market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Semiconductor in Aerospace and Military market shares of main players, in revenue (\$ Million), 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 Semiconductor in Aerospace and Military

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 Semiconductor in Aerospace and Military market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CETC, Texas Instruments (TI), Analog Devices, Microchip, Intel, CASC, Infineon Technologies, AMD, Guoxin Micro, ON Semiconductor, etc.

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

Market segmentation

Semiconductor in Aerospace and Military 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Integrated Circuits

Discrete Devices

Optoelectronics and Isolation

Hybrids and Modules

RF and Microwave Devices

Others

Market segment by Materials

Si

SiC

GaN

Others

Market segment by Platform

Space

Airborne

Naval

Ground

Market segment by Application

Aerospace

Weapons

Ship

Communication

Others

Market segment by players, this report covers

CETC

Texas Instruments (TI)

Analog Devices

Microchip

Intel

CASC

Infineon Technologies

AMD

Guoxin Micro

ON Semiconductor

BAE Systems

NXP Semiconductors

Skyworks

Broadcom

Northrop Grumman

Qorvo

Guizhou Zhenhua Fengguang

Renesas

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Semiconductor in Aerospace and Military product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Semiconductor in Aerospace and Military, with revenue, gross margin, and global market share of Semiconductor in Aerospace and Military from 2021 to 2026.

Chapter 3, the Semiconductor in Aerospace and Military competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Semiconductor in Aerospace and Military market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Semiconductor in Aerospace and Military.

Chapter 13, to describe Semiconductor in Aerospace and Military research findings and conclusion.

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