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Global Compound Semiconductor Market Growth (Status and Outlook) 2025-2031

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Abstracts

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The global Compound Semiconductor market size is predicted to grow from US$ 24140 million in 2025 to US$ 38500 million in 2031; it is expected to grow at a CAGR of 8.1% from 2025 to 2031.

Compound semiconductors are semiconductors that are made from two or more elements. Silicon is made from a single element, and therefore is not a compound semiconductor. Most compound semiconductors are from combinations of elements from GroupIII and GroupV of the Periodic Table of the Elements (GaAs, GaP, InP and others). Other compound semiconductors are made from Groups II and VI (CdTe, ZnSe and others). It is also possible to use different elements from within the same group (IV), to make compound semiconductors such as SiC.

The compound semiconductor market is experiencing significant growth, driven by the increasing demand for advanced electronic devices, high-speed communication technologies, and energy-efficient power electronics.The compound semiconductor market is poised for robust growth, driven by technological advancements and increasing applications across various industries. As the demand for high-performance, energy-efficient, and compact electronic devices continues to rise, compound semiconductors will remain at the forefront of innovation, shaping the future of electronics and communication technologies.

Japan is the largest producer of Compound Semiconductor, with a market share nearly 25%. It was followed by North America with 20%. Sumitomo Electric Industries, SCIOCS, Mitsubishi Chemical, Dow Corning and Shin-Etsu Chemical are the top 5

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manufacturers of industry, and they had about 40% combined market share.

LPI (LP Information)' newest research report, the “Compound Semiconductor Industry Forecast” looks at past sales and reviews total world Compound Semiconductor sales in 2024, providing a comprehensive analysis by region and market sector of projected Compound Semiconductor sales for 2025 through 2031. With Compound Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Compound Semiconductor industry.

This Insight Report provides a comprehensive analysis of the global Compound Semiconductor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Compound Semiconductor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Compound Semiconductor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Compound Semiconductor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Compound Semiconductor.

This report presents a comprehensive overview, market shares, and growth opportunities of Compound Semiconductor market by product type, application, key players and key regions and countries.

Segmentation by Type:

Gallium Arsenide (GaAs)

Gallium Nitride (GaN)

Silicon Carbide (SiC)

Indium Phosphide (InP)

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Others

Segmentation by Application:

Electronic Components

Photonic Device

Optoelectronic Devices

Integrated Circuit

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

- STMicroelectronics
- Infineon
- Wolfspeed
- Rohm
- onsemi

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BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

IQE

Soitec (EpiGaN)

Transphorm Inc.

Sumitomo Electric Device Innovations (SEDI) (SCIOCS)

NTT Advanced Technology (NTT-AT)

DOWA Electronics Materials

BTOZ

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

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BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

GE Aerospace

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cissoid

SK powertech

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Episil-Precision Inc

Epistar Corp.

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Enkris Semiconductor Inc

Innoscience

Skyworks

Broadcom

WIN Semi

Murata

Analog Devices

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