

# Global Compound Semiconductor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Compound Semiconductor market size is expected to reach \$ 42200 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

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

This report studies the global Compound Semiconductor demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Compound Semiconductor, 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 Compound Semiconductor that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Compound Semiconductor total market, 2021-2032, (USD Million)

Global Compound Semiconductor total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Compound Semiconductor total market, key domestic companies, and share, (USD Million)

Global Compound Semiconductor revenue by player, revenue and market share 2021-2026, (USD Million)

Global Compound Semiconductor total market by Type, CAGR, 2021-2032, (USD Million)

Global Compound Semiconductor total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Compound Semiconductor 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 STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech), Semikron Danfoss, Fuji Electric, 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 Compound Semiconductor market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Compound Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Compound Semiconductor Market, Segmentation by Type:

Gallium Arsenide (GaAs)

Gallium Nitride (GaN)

Silicon Carbide (SiC)

Indium Phosphide (InP)

Others

Global Compound Semiconductor Market, Segmentation by Application:

Electronic Components

Photonic Device

Optoelectronic Devices

Integrated Circuit

#### Companies Profiled:

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

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)

CETC 55

WeEn Semiconductors

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

Episil-Precision Inc

Epistar Corp.

CETC 13

Analog Devices

Enkris Semiconductor Inc

Innoscience

Skyworks

Broadcom

WIN Semi

Murata

### Key Questions Answered

1. How big is the global Compound Semiconductor market?
2. What is the demand of the global Compound Semiconductor market?
3. What is the year over year growth of the global Compound Semiconductor market?
4. What is the total value of the global Compound Semiconductor market?
5. Who are the Major Players in the global Compound Semiconductor market?
6. What are the growth factors driving the market demand?

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