

Compound Semiconductor Market Report: Trends, Forecast and Competitive Analysis

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Abstracts

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The future of the compound semiconductor market looks promising with opportunities in the telecommunication, general lighting, automotive, power supply, datacom, and consumer devices industries. The global compound semiconductor market is expected to grow with a CAGR of 5% to 7% from 2020 to 2025. The major drivers for this market is increasing demand and implementation of GaN and SiC in the semiconductor industry.

A total of XX figures / charts and XX tables are provided in more than 150 pages report is developed to help in your business decisions. Sample figures with some insights are shown below. To learn the scope, benefits, companies researched, and other details of the global compound semiconductor market report, please download the report brochure.

compound semiconductor

Growth in various segments of the compound semiconductor market are given below:

compound semiconductor

The study includes trends and forecast for the global compound semiconductor market by material type, application, end use industry and region as follows:

By Material Type [Value (\$ Million) shipment analysis for 2014 – 2025]:

GaN GaAs SiCInPOthers

By Application [Value (\$ Million) shipment analysis for 2014 – 2025]:

LED Optoelectronics RF Devices Power Electronics

By End Use Industry [Value (\$ Million) shipment analysis for 2014 – 2025]:

Telecommunication General Lighting Automotive Power SupplyDatacomConsumer DevicesOthers

By Region [Value (\$ Million) shipment analysis for 2014 – 2025]:

North AmericaUnited StatesCanada MexicoEuropeUnited KingdomSpainGermanyFranceAsia PacificChinaIndiaJapanSouth KoreaThe Rest of the World Brazil

Some of the compound semiconductor manufacturers profiled in this report include, Nichia, Samsung Electronics, Qorvo, and Skyworks .

Lucintel forecasts power electronics is expected to witness the highest growth over the forecast period supported by increasing demand for SiC and GaN power semiconductors in applications such as hybrid and electric vehicles, power supplies, and photovoltaic (PV) inverters.

Within this market, power supply will remain the largest application over the forecast period due to the need of hybrid modules that are based on compound semiconductors and can reduce power loss up to 45%, and the full GaN-based devices in UPS can reduce power loss up to 100%.

Asia Pacific will remain the largest region and it is expected to witness highest growth over the forecast period supported by growing demand for various end use industries, such as telecommunication, automotive, and aerospace and defense, and the commercialization of 5G services in countries such as China, South Korea, and Japan.

Features of the Global Compound Semiconductor Market

Market Size Estimates: Global compound semiconductor market size estimation in terms of value (\$M) shipment.Trend and Forecast Analysis: Market trend (2014-2019)

and forecast (2020-2025) by various segments and regions. Segmentation Analysis: Global compound semiconductor market size by various segments, such as material type, application, and end use industry in terms of value. Regional Analysis: Global compound semiconductor market breakdown by the North America, Europe, Asia Pacific, and Rest of the World. Growth Opportunities: Analysis of growth opportunities in different material type, application, and end use industry, and region for the global compound semiconductor market. Strategic Analysis: This includes M&A, new product development, and competitive landscape of the global compound semiconductor market. Analysis of competitive intensity of the industry based on Porter's Five Forces model.

This report answers following key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the global compound semiconductor market by material type (GaN, GaAs, SiC, InP, and others), application (LED, optoelectronics, RF devices, power electronics), end use industry (telecommunication, general lighting, automotive, power supply, datacom, consumer devices, and others), and region (North America, Europe, Asia Pacific, and Rest of the World)?

Q. 2 Which segments will grow at a faster pace and why?

Q.3 Which region will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are emerging trends in this market and the reasons behind them?

Q.7 What are some changing demands of customers in the market?

Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this market, and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities did take place in the last five years in this market?

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