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Global LED Chip and Module Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global LED Chip and Module market size was valued at USD 4327.9 million in 2023 and is forecast to a readjusted size of USD 6003 million by 2030 with a CAGR of 4.8% during review period.

Epi/chip. Epitaxy refers to the process of evolving a wafer (sapphire or SiC, for instance) by depositing epitaxial layers on the wafer using MOCVD. Creating the epitaxial layers is the most critical and capital-intensive step in LED manufacturing. After additional wafer processing to create the metal connection, the wafer is cut up ('diced') into chips. Although it can be used for different applications, the quality requirements (mainly efficacy) of the epi/chip differ by application.

Module (sometimes called light engine). Creation of a module (light engine) is the next step in the LED lighting value chain. The module (light engine) mainly consists of one or more LED packages, secondary optics, a heat sink and an electrical driver. The LEDs are mounted on a PCB (printed circuit board), and the modules (light engines) are integrated with optics and thermal/power management components to optimize the module (light engine) to each application.

The top 4 of global LED Chip and Module include San'an Opto, ETI, HC SemiTek and Lattice Power, with about 77% market shares.

Europe is the largest consumption place, with a consumption market share nearly 27%.

The Global Info Research report includes an overview of the development of the LED Chip and Module industry chain, the market status of General Lighting (Lateral Chip,

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Vertical Chip), Automotive Lighting (Lateral Chip, Vertical Chip), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of LED Chip and Module.

Regionally, the report analyzes the LED Chip and Module markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global LED Chip and Module market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the LED Chip and Module market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the LED Chip and Module industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Sq.in.), revenue generated, and market share of different by Type (e.g., Lateral Chip, Vertical Chip).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the LED Chip and Module market.

Regional Analysis: The report involves examining the LED Chip and Module market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the LED Chip and Module market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to LED Chip and Module:

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Company Analysis: Report covers individual LED Chip and Module manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards LED Chip and Module This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (General Lighting, Automotive Lighting).

Technology Analysis: Report covers specific technologies relevant to LED Chip and Module. It assesses the current state, advancements, and potential future developments in LED Chip and Module areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the LED Chip and Module market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

LED Chip and Module market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Lateral Chip

Vertical Chip

Flip Chip

Market segment by Application

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General Lighting

Automotive Lighting

Backlighting

Major players covered

Epistar

San’an Opto

Cree

OSRAM

Samsung

Toyoda Gosei

Seoul Semiconductor

Philips Lumileds

ETI

LG Innotek

NiChia

HC SemiTek

Lextar

Lattice Power

OPTO-TECH

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Tyntek

Genesis Photonics

Formosa Epitaxy

Changelight

Aucksun

TongFang

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe LED Chip and Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LED Chip and Module, with price, sales, revenue and global market share of LED Chip and Module from 2019 to 2024.

Chapter 3, the LED Chip and Module competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

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Chapter 4, the LED Chip and Module breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and LED Chip and Module market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of LED Chip and Module.

Chapter 14 and 15, to describe LED Chip and Module sales channel, distributors, customers, research findings and conclusion.

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