

# Global LED Chip and Module Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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## Abstracts

### Summary

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.

According to APO Research, The global LED Chip and Module market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

North American market for LED Chip and Module is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for LED Chip and Module is estimated to increase from \$ million in

2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for LED Chip and Module is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for LED Chip and Module is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of LED Chip and Module include Epistar, San'an Opto, Cree, OSRAM, Samsung, Toyoda Gosei, Seoul Semiconductor, Philips Lumileds and ETI, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

This report presents an overview of global market for LED Chip and Module, sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of LED Chip and Module, also provides the sales of main regions and countries. Of the upcoming market potential for LED Chip and Module, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the LED Chip and Module sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global LED Chip and Module market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for LED Chip and Module sales, projected growth trends, production technology, application and end-user industry.

## LED Chip and Module segment by Company

Epistar

San'an Opto

Cree

OSRAM

Samsung

Toyoda Gosei

Seoul Semiconductor

Philips Lumileds

ETI

LG Innotek

NiChia

HC SemiTek

Lextar

Lattice Power

OPTO-TECH

Tyntek

Genesis Photonics

Formosa Epitaxy

Changelight

Aucksun

TongFang

#### LED Chip and Module segment by Type

Lateral Chip

Vertical Chip

Flip Chip

#### LED Chip and Module segment by Application

General Lighting

Automotive Lighting

Backlighting

#### LED Chip and Module segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

#### Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

#### Latin America

Mexico

Brazil

Argentina

#### Middle East & Africa

Turkey

Saudi Arabia

## UAE

### Study Objectives

1. To analyze and research the global LED Chip and Module status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions LED Chip and Module market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify LED Chip and Module significant trends, drivers, influence factors in global and regions.
6. To analyze LED Chip and Module competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global LED Chip and Module market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of LED Chip and Module and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape

section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of LED Chip and Module.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Provides an overview of the LED Chip and Module market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global LED Chip and Module industry.

Chapter 3: Detailed analysis of LED Chip and Module manufacturers competitive landscape, price, sales and revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales and value of LED Chip and Module in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of LED Chip and Module in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights.



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