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Global LED Chip and Module Market Analysis and Forecast 2024-2030

https://marketpublishers.com/r/G49E95F15B5FEN.html
Date: April 2024
Pages: 219
Price: US$ 4,950.00 (Single User License)
ID: G49E95F15B5FEN

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.

The US & Canada 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

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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.

In terms of production side, this report researches the LED Chip and Module production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of LED Chip and Module by region (region level and country level), by Company, by Type and by Application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for LED Chip and Module, capacity, output, 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 consumption 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

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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

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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.

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- 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

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Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.

2. To present the key manufacturers, capacity, production, 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 market potential and advantage, opportunity and challenge, restraints, and risks.

5. To identify significant trends, drivers, influence factors in global and regions.

6. To analyze 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.

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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 volume 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: Introduces the report scope of the report, executive summary of different market segments (by type and by application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: LED Chip and Module production/output of global and key producers (regions/countries). It provides a quantitative analysis of the production, and development potential of each producer in the next six years.

Chapter 4: Sales (consumption), revenue of LED Chip and Module in global, regional level and country level. It provides a quantitative analysis of the market size and

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development potential of each region and its main countries and introduces the market development, future development prospects, market space of each country in the world.

Chapter 5: Detailed analysis of LED Chip and Module manufacturers competitive landscape, price, sales, revenue, market share and industry ranking, latest development plan, merger, and acquisition information, etc.

Chapter 6: Provides the analysis of various market segments by type, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7: Provides the analysis of various market segments by application, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8: Provides profiles of key manufacturers, introducing the basic situation of the main companies in the market in detail, including product descriptions and specifications, LED Chip and Module sales, revenue, price, gross margin, and recent development, etc.

Chapter 9: North America (US & Canada) by type, by application and by country, sales, and revenue for each segment.

Chapter 10: Europe by type, by application and by country, sales, and revenue for each segment.

Chapter 11: China by type, by application, sales, and revenue for each segment.

Chapter 12: Asia (Excluding China) by type, by application and by region, sales, and revenue for each segment.

Chapter 13: Middle East, Africa, Latin America by type, by application and by country, sales, and revenue for each segment.

Chapter 14: Analysis of industrial chain, sales channel, key raw materials, distributors and customers.

Chapter 15: The main concluding insights of the report.

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Contents

1 MARKET OVERVIEW

1.1 Product Definition
1.2 LED Chip and Module Market by Type
  1.2.1 Global LED Chip and Module Market Size by Type, 2019 VS 2023 VS 2030
  1.2.2 Lateral Chip
  1.2.3 Vertical Chip
  1.2.4 Flip Chip
1.3 LED Chip and Module Market by Application
  1.3.1 Global LED Chip and Module Market Size by Application, 2019 VS 2023 VS 2030
  1.3.2 General Lighting
  1.3.3 Automotive Lighting
  1.3.4 Backlighting
1.4 Assumptions and Limitations
1.5 Study Goals and Objectives

2 LED CHIP AND MODULE MARKET DYNAMICS

2.1 LED Chip and Module Industry Trends
2.2 LED Chip and Module Industry Drivers
2.3 LED Chip and Module Industry Opportunities and Challenges
2.4 LED Chip and Module Industry Restraints

3 GLOBAL LED CHIP AND MODULE PRODUCTION OVERVIEW

3.1 Global LED Chip and Module Production Capacity (2019-2030)
3.2 Global LED Chip and Module Production by Region: 2019 VS 2023 VS 2030
3.3 Global LED Chip and Module Production by Region
  3.3.1 Global LED Chip and Module Production by Region (2019-2024)
  3.3.2 Global LED Chip and Module Production by Region (2025-2030)
  3.3.3 Global LED Chip and Module Production Market Share by Region (2019-2030)
3.4 North America
3.5 Europe
3.6 Southeast Asia
3.7 Japan
3.8 China

+44 20 8123 2220
info@marketpublishers.com

3.9 Taiwan(China)
3.10 South Korea

4 GLOBAL MARKET GROWTH PROSPECTS

4.1 Global LED Chip and Module Revenue Estimates and Forecasts (2019-2030)
4.2 Global LED Chip and Module Revenue by Region
  4.2.1 Global LED Chip and Module Revenue by Region: 2019 VS 2023 VS 2030
  4.2.2 Global LED Chip and Module Revenue by Region (2019-2024)
  4.2.3 Global LED Chip and Module Revenue by Region (2025-2030)
  4.2.4 Global LED Chip and Module Revenue Market Share by Region (2019-2030)
4.3 Global LED Chip and Module Sales Estimates and Forecasts 2019-2030
4.4 Global LED Chip and Module Sales by Region
  4.4.1 Global LED Chip and Module Sales by Region: 2019 VS 2023 VS 2030
  4.4.2 Global LED Chip and Module Sales by Region (2019-2024)
  4.4.3 Global LED Chip and Module Sales by Region (2025-2030)
  4.4.4 Global LED Chip and Module Sales Market Share by Region (2019-2030)
4.5 US & Canada
4.6 Europe
4.7 China
4.8 Asia (Excluding China)
4.9 Middle East, Africa and Latin America

5 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

5.1 Global LED Chip and Module Revenue by Manufacturers
  5.1.1 Global LED Chip and Module Revenue by Manufacturers (2019-2024)
  5.1.2 Global LED Chip and Module Revenue Market Share by Manufacturers (2019-2024)
  5.1.3 Global LED Chip and Module Manufacturers Revenue Share Top 10 and Top 5 in 2023
5.2 Global LED Chip and Module Sales by Manufacturers
  5.2.1 Global LED Chip and Module Sales by Manufacturers (2019-2024)
  5.2.2 Global LED Chip and Module Sales Market Share by Manufacturers (2019-2024)
  5.2.3 Global LED Chip and Module Manufacturers Sales Share Top 10 and Top 5 in 2023
5.3 Global LED Chip and Module Sales Price by Manufacturers (2019-2024)
5.4 Global LED Chip and Module Key Manufacturers Ranking, 2022 VS 2023 VS 2024
5.5 Global LED Chip and Module Key Manufacturers Manufacturing Sites &

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info@marketpublishers.com

Headquarters
5.6 Global LED Chip and Module Manufacturers, Product Type & Application
5.7 Global LED Chip and Module Manufacturers Commercialization Time
5.8 Market Competitive Analysis
5.8.1 Global LED Chip and Module Market CR5 and HHI
5.8.2 2023 LED Chip and Module Tier 1, Tier 2, and Tier

6 LED CHIP AND MODULE MARKET BY TYPE

6.1 Global LED Chip and Module Revenue by Type
6.1.1 Global LED Chip and Module Revenue by Type (2019 VS 2023 VS 2030)
6.1.2 Global LED Chip and Module Revenue by Type (2019-2030) & (US$ Million)
6.1.3 Global LED Chip and Module Revenue Market Share by Type (2019-2030)
6.2 Global LED Chip and Module Sales by Type
6.2.1 Global LED Chip and Module Sales by Type (2019 VS 2023 VS 2030)
6.2.2 Global LED Chip and Module Sales by Type (2019-2030) & (K Sq.in.)
6.2.3 Global LED Chip and Module Sales Market Share by Type (2019-2030)
6.3 Global LED Chip and Module Price by Type

7 LED CHIP AND MODULE MARKET BY APPLICATION

7.1 Global LED Chip and Module Revenue by Application
7.1.1 Global LED Chip and Module Revenue by Application (2019 VS 2023 VS 2030)
7.1.2 Global LED Chip and Module Revenue by Application (2019-2030) & (US$ Million)
7.1.3 Global LED Chip and Module Revenue Market Share by Application (2019-2030)
7.2 Global LED Chip and Module Sales by Application
7.2.1 Global LED Chip and Module Sales by Application (2019 VS 2023 VS 2030)
7.2.2 Global LED Chip and Module Sales by Application (2019-2030) & (K Sq.in.)
7.2.3 Global LED Chip and Module Sales Market Share by Application (2019-2030)
7.3 Global LED Chip and Module Price by Application

8 COMPANY PROFILES

8.1 Epistar
8.1.1 Epistar Comapny Information
8.1.2 Epistar Business Overview
8.1.3 Epistar LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)

+44 20 8123 2220
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8.1.4 Epistar LED Chip and Module Product Portfolio
8.1.5 Epistar Recent Developments
8.2 San’an Opto
8.2.1 San’an Opto Comapny Information
8.2.2 San’an Opto Business Overview
8.2.3 San’an Opto LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.2.4 San’an Opto LED Chip and Module Product Portfolio
8.2.5 San’an Opto Recent Developments
8.3 Cree
8.3.1 Cree Comapny Information
8.3.2 Cree Business Overview
8.3.3 Cree LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.3.4 Cree LED Chip and Module Product Portfolio
8.3.5 Cree Recent Developments
8.4 OSRAM
8.4.1 OSRAM Comapny Information
8.4.2 OSRAM Business Overview
8.4.3 OSRAM LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.4.4 OSRAM LED Chip and Module Product Portfolio
8.4.5 OSRAM Recent Developments
8.5 Samsung
8.5.1 Samsung Comapny Information
8.5.2 Samsung Business Overview
8.5.3 Samsung LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.5.4 Samsung LED Chip and Module Product Portfolio
8.5.5 Samsung Recent Developments
8.6 Toyoda Gosei
8.6.1 Toyoda Gosei Comapny Information
8.6.2 Toyoda Gosei Business Overview
8.6.3 Toyoda Gosei LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.6.4 Toyoda Gosei LED Chip and Module Product Portfolio
8.6.5 Toyoda Gosei Recent Developments
8.7 Seoul Semiconductor
8.7.1 Seoul Semiconductor Comapny Information

+44 20 8123 2220
info@marketpublishers.com

8.7.2 Seoul Semiconductor Business Overview
8.7.3 Seoul Semiconductor LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.7.4 Seoul Semiconductor LED Chip and Module Product Portfolio
8.7.5 Seoul Semiconductor Recent Developments
8.8 Philips Lumileds
8.8.1 Philips Lumileds Comapny Information
8.8.2 Philips Lumileds Business Overview
8.8.3 Philips Lumileds LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.8.4 Philips Lumileds LED Chip and Module Product Portfolio
8.8.5 Philips Lumileds Recent Developments
8.9 ETI
8.9.1 ETI Comapny Information
8.9.2 ETI Business Overview
8.9.3 ETI LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.9.4 ETI LED Chip and Module Product Portfolio
8.9.5 ETI Recent Developments
8.10 LG Innotek
8.10.1 LG Innotek Comapny Information
8.10.2 LG Innotek Business Overview
8.10.3 LG Innotek LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.10.4 LG Innotek LED Chip and Module Product Portfolio
8.10.5 LG Innotek Recent Developments
8.11 NiChia
8.11.1 NiChia Comapny Information
8.11.2 NiChia Business Overview
8.11.3 NiChia LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.11.4 NiChia LED Chip and Module Product Portfolio
8.11.5 NiChia Recent Developments
8.12 HC SemiTek
8.12.1 HC SemiTek Comapny Information
8.12.2 HC SemiTek Business Overview
8.12.3 HC SemiTek LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.12.4 HC SemiTek LED Chip and Module Product Portfolio
8.12.5 HC SemiTek Recent Developments

+44 20 8123 2220
info@marketpublishers.com

8.13 Lextar
8.13.1 Lextar Comapny Information
8.13.2 Lextar Business Overview
8.13.3 Lextar LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.13.4 Lextar LED Chip and Module Product Portfolio
8.13.5 Lextar Recent Developments
8.14 Lattice Power
8.14.1 Lattice Power Comapny Information
8.14.2 Lattice Power Business Overview
8.14.3 Lattice Power LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.14.4 Lattice Power LED Chip and Module Product Portfolio
8.14.5 Lattice Power Recent Developments
8.15 OPTO-TECH
8.15.1 OPTO-TECH Comapny Information
8.15.2 OPTO-TECH Business Overview
8.15.3 OPTO-TECH LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.15.4 OPTO-TECH LED Chip and Module Product Portfolio
8.15.5 OPTO-TECH Recent Developments
8.16 Tyntek
8.16.1 Tyntek Comapny Information
8.16.2 Tyntek Business Overview
8.16.3 Tyntek LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.16.4 Tyntek LED Chip and Module Product Portfolio
8.16.5 Tyntek Recent Developments
8.17 Genesis Photonics
8.17.1 Genesis Photonics Comapny Information
8.17.2 Genesis Photonics Business Overview
8.17.3 Genesis Photonics LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.17.4 Genesis Photonics LED Chip and Module Product Portfolio
8.17.5 Genesis Photonics Recent Developments
8.18 Formosa Epitaxy
8.18.1 Formosa Epitaxy Comapny Information
8.18.2 Formosa Epitaxy Business Overview
8.18.3 Formosa Epitaxy LED Chip and Module Sales, Revenue, Price and Gross

+44 20 8123 2220
info@marketpublishers.com

Margin (2019-2024)
8.18.4 Formosa Epitaxy LED Chip and Module Product Portfolio
8.18.5 Formosa Epitaxy Recent Developments
8.19 Changelight
8.19.1 Changelight Comapny Information
8.19.2 Changelight Business Overview
8.19.3 Changelight LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.19.4 Changelight LED Chip and Module Product Portfolio
8.19.5 Changelight Recent Developments
8.20 Aucksun
8.20.1 Aucksun Comapny Information
8.20.2 Aucksun Business Overview
8.20.3 Aucksun LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.20.4 Aucksun LED Chip and Module Product Portfolio
8.20.5 Aucksun Recent Developments
8.21 TongFang
8.21.1 TongFang Comapny Information
8.21.2 TongFang Business Overview
8.21.3 TongFang LED Chip and Module Sales, Revenue, Price and Gross Margin (2019-2024)
8.21.4 TongFang LED Chip and Module Product Portfolio
8.21.5 TongFang Recent Developments

9 NORTH AMERICA

9.1 North America LED Chip and Module Market Size by Type
9.1.1 North America LED Chip and Module Revenue by Type (2019-2030)
9.1.2 North America LED Chip and Module Sales by Type (2019-2030)
9.1.3 North America LED Chip and Module Price by Type (2019-2030)
9.2 North America LED Chip and Module Market Size by Application
9.2.1 North America LED Chip and Module Revenue by Application (2019-2030)
9.2.2 North America LED Chip and Module Sales by Application (2019-2030)
9.2.3 North America LED Chip and Module Price by Application (2019-2030)
9.3 North America LED Chip and Module Market Size by Country
9.3.1 North America LED Chip and Module Revenue Grow Rate by Country (2019 VS 2023 VS 2030)
9.3.2 North America LED Chip and Module Sales by Country (2019 VS 2023 VS 2030)

+44 20 8123 2220
info@marketpublishers.com

9.3.3 North America LED Chip and Module Price by Country (2019-2030)
9.3.4 U.S.
9.3.5 Canada

10 EUROPE

10.1 Europe LED Chip and Module Market Size by Type
10.1.1 Europe LED Chip and Module Revenue by Type (2019-2030)
10.1.2 Europe LED Chip and Module Sales by Type (2019-2030)
10.1.3 Europe LED Chip and Module Price by Type (2019-2030)
10.2 Europe LED Chip and Module Market Size by Application
10.2.1 Europe LED Chip and Module Revenue by Application (2019-2030)
10.2.2 Europe LED Chip and Module Sales by Application (2019-2030)
10.2.3 Europe LED Chip and Module Price by Application (2019-2030)
10.3 Europe LED Chip and Module Market Size by Country
10.3.1 Europe LED Chip and Module Revenue Grow Rate by Country (2019 VS 2023 VS 2030)
10.3.2 Europe LED Chip and Module Sales by Country (2019 VS 2023 VS 2030)
10.3.3 Europe LED Chip and Module Price by Country (2019-2030)
10.3.4 Germany
10.3.5 France
10.3.6 U.K.
10.3.7 Italy
10.3.8 Russia

11 CHINA

11.1 China LED Chip and Module Market Size by Type
11.1.1 China LED Chip and Module Revenue by Type (2019-2030)
11.1.2 China LED Chip and Module Sales by Type (2019-2030)
11.1.3 China LED Chip and Module Price by Type (2019-2030)
11.2 China LED Chip and Module Market Size by Application
11.2.1 China LED Chip and Module Revenue by Application (2019-2030)
11.2.2 China LED Chip and Module Sales by Application (2019-2030)
11.2.3 China LED Chip and Module Price by Application (2019-2030)

12 ASIA (EXCLUDING CHINA)

12.1 Asia LED Chip and Module Market Size by Type

+44 20 8123 2220
info@marketpublishers.com

12.1.1 Asia LED Chip and Module Revenue by Type (2019-2030)
12.1.2 Asia LED Chip and Module Sales by Type (2019-2030)
12.1.3 Asia LED Chip and Module Price by Type (2019-2030)
12.2 Asia LED Chip and Module Market Size by Application
12.2.1 Asia LED Chip and Module Revenue by Application (2019-2030)
12.2.2 Asia LED Chip and Module Sales by Application (2019-2030)
12.2.3 Asia LED Chip and Module Price by Application (2019-2030)
12.3 Asia LED Chip and Module Market Size by Country
12.3.1 Asia LED Chip and Module Revenue Grow Rate by Country (2019 VS 2023 VS 2030)
12.3.2 Asia LED Chip and Module Sales by Country (2019 VS 2023 VS 2030)
12.3.3 Asia LED Chip and Module Price by Country (2019-2030)
12.3.4 Japan
12.3.5 South Korea
12.3.6 India
12.3.7 Australia
12.3.8 China Taiwan
12.3.9 Southeast Asia

13 MIDDLE EAST, AFRICA AND LATIN AMERICA

13.1 Middle East, Africa and Latin America LED Chip and Module Market Size by Type
13.1.1 Middle East, Africa and Latin America LED Chip and Module Revenue by Type (2019-2030)
13.1.2 Middle East, Africa and Latin America LED Chip and Module Sales by Type (2019-2030)
13.1.3 Middle East, Africa and Latin America LED Chip and Module Price by Type (2019-2030)
13.2 Middle East, Africa and Latin America LED Chip and Module Market Size by Application
13.2.1 Middle East, Africa and Latin America LED Chip and Module Revenue by Application (2019-2030)
13.2.2 Middle East, Africa and Latin America LED Chip and Module Sales by Application (2019-2030)
13.2.3 Middle East, Africa and Latin America LED Chip and Module Price by Application (2019-2030)
13.3 Middle East, Africa and Latin America LED Chip and Module Market Size by Country
13.3.1 Middle East, Africa and Latin America LED Chip and Module Revenue Grow

+44 20 8123 2220
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Rate by Country (2019 VS 2023 VS 2030)
13.3.2 Middle East, Africa and Latin America LED Chip and Module Sales by Country (2019 VS 2023 VS 2030)
13.3.3 Middle East, Africa and Latin America LED Chip and Module Price by Country (2019-2030)
13.3.4 Mexico
13.3.5 Brazil
13.3.6 Israel
13.3.7 Argentina
13.3.8 Colombia
13.3.9 Turkey
13.3.10 Saudi Arabia
13.3.11 UAE

14 VALUE CHAIN AND SALES CHANNELS ANALYSIS

14.1 LED Chip and Module Value Chain Analysis
14.1.1 LED Chip and Module Key Raw Materials
14.1.2 Raw Materials Key Suppliers
14.1.3 Manufacturing Cost Structure
14.1.4 LED Chip and Module Production Mode & Process
14.2 LED Chip and Module Sales Channels Analysis
14.2.1 Direct Comparison with Distribution Share
14.2.2 LED Chip and Module Distributors
14.2.3 LED Chip and Module Customers

15 CONCLUDING INSIGHTS

16 APPENDIX

16.1 Reasons for Doing This Study
16.2 Research Methodology
16.3 Research Process
16.4 Authors List of This Report
16.5 Data Source
16.5.1 Secondary Sources
16.5.2 Primary Sources
16.6 Disclaimer

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global LED Chip and Module Market Size Growth Rate by Type (US$ Million), 2019 VS 2023 VS 2030
Table 2. Global LED Chip and Module Market Size Growth Rate by Type (US$ Million), 2019 VS 2023 VS 2030
Table 3. Lateral Chip Major Manufacturers
Table 4. Vertical Chip Major Manufacturers
Table 5. Flip Chip Major Manufacturers
Table 6. Global LED Chip and Module Market Size Growth Rate by Application (US$ Million), 2019 VS 2023 VS 2030
Table 7. General Lighting Major Manufacturers
Table 8. Automotive Lighting Major Manufacturers
Table 9. Backlighting Major Manufacturers
Table 10. LED Chip and Module Industry Trends
Table 11. LED Chip and Module Industry Drivers
Table 12. LED Chip and Module Industry Opportunities and Challenges
Table 13. LED Chip and Module Industry Restraints
Table 14. Global LED Chip and Module Production Growth Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (K Sq.in.)
Table 15. Global LED Chip and Module Production by Region (2019-2024) & (K Sq.in.)
Table 16. Global LED Chip and Module Production by Region (2025-2030) & (K Sq.in.)
Table 17. Global LED Chip and Module Production Market Share by Region (2019-2024)
Table 18. Global LED Chip and Module Production Market Share by Region (2025-2030)
Table 19. Global LED Chip and Module Revenue Grow Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (US$ Million)
Table 20. Global LED Chip and Module Revenue by Region (2019-2024) & (US$ Million)
Table 21. Global LED Chip and Module Revenue by Region (2025-2030) & (US$ Million)
Table 22. Global LED Chip and Module Revenue Market Share by Region (2019-2024)
Table 23. Global LED Chip and Module Revenue Market Share by Region (2025-2030)
Table 24. Global LED Chip and Module Sales Grow Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (K Sq.in.)
Table 25. Global LED Chip and Module Sales by Region (2019-2024) & (K Sq.in.)

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Table 26. Global LED Chip and Module Sales by Region (2025-2030) & (K Sq.in.)
Table 27. Global LED Chip and Module Sales Market Share by Region (2019-2024)
Table 28. Global LED Chip and Module Sales Market Share by Region (2025-2030)
Table 29. Global LED Chip and Module Revenue by Manufacturers (US$ Million) & (2019-2024)
Table 30. Global LED Chip and Module Revenue Market Share by Manufacturers (2019-2024)
Table 31. Global LED Chip and Module Sales by Manufacturers (US$ Million) & (2019-2024)
Table 32. Global LED Chip and Module Sales Market Share by Manufacturers (2019-2024)
Table 33. Global LED Chip and Module Sales Price (USD/Sq.in.) of Manufacturers (2019-2024)
Table 34. Global LED Chip and Module Key Manufacturers Ranking, 2022 VS 2023 VS 2024
Table 35. Global LED Chip and Module Key Manufacturers Manufacturing Sites & Headquarters
Table 36. Global LED Chip and Module Manufacturers, Product Type & Application
Table 37. Global LED Chip and Module Manufacturers Commercialization Time
Table 38. Global Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 39. Global LED Chip and Module by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2023)
Table 40. Global LED Chip and Module Revenue by Type 2019 VS 2023 VS 2030 (US$ Million)
Table 41. Global LED Chip and Module Revenue by Type (2019-2024) & (US$ Million)
Table 42. Global LED Chip and Module Revenue by Type (2025-2030) & (US$ Million)
Table 43. Global LED Chip and Module Revenue Market Share by Type (2019-2024)
Table 44. Global LED Chip and Module Revenue Market Share by Type (2025-2030)
Table 45. Global LED Chip and Module Sales by Type 2019 VS 2023 VS 2030 (K Sq.in.)
Table 46. Global LED Chip and Module Sales by Type (2019-2024) & (K Sq.in.)
Table 47. Global LED Chip and Module Sales by Type (2025-2030) & (K Sq.in.)
Table 48. Global LED Chip and Module Sales Market Share by Type (2019-2024)
Table 49. Global LED Chip and Module Sales Market Share by Type (2025-2030)
Table 50. Global LED Chip and Module Price by Type (2019-2024) & (USD/Sq.in.)
Table 51. Global LED Chip and Module Price by Type (2025-2030) & (USD/Sq.in.)
Table 52. Global LED Chip and Module Revenue by Application 2019 VS 2023 VS 2030 (US$ Million)
Table 53. Global LED Chip and Module Revenue by Application (2019-2024) & (US$

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Million)
Table 54. Global LED Chip and Module Revenue by Application (2025-2030) & (US$ Million)
Table 55. Global LED Chip and Module Revenue Market Share by Application (2019-2024)
Table 56. Global LED Chip and Module Revenue Market Share by Application (2025-2030)
Table 57. Global LED Chip and Module Sales by Application 2019 VS 2023 VS 2030 (K Sq.in.)
Table 58. Global LED Chip and Module Sales by Application (2019-2024) & (K Sq.in.)
Table 59. Global LED Chip and Module Sales by Application (2025-2030) & (K Sq.in.)
Table 60. Global LED Chip and Module Sales Market Share by Application (2019-2024)
Table 61. Global LED Chip and Module Sales Market Share by Application (2025-2030)
Table 62. Global LED Chip and Module Price by Application (2019-2024) & (USD/Sq.in.)
Table 63. Global LED Chip and Module Price by Application (2025-2030) & (USD/Sq.in.)
Table 64. Epistar Company Information
Table 65. Epistar Business Overview
Table 66. Epistar LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 67. Epistar LED Chip and Module Product Portfolio
Table 68. Epistar Recent Development
Table 69. San’an Opto Company Information
Table 70. San’an Opto Business Overview
Table 71. San’an Opto LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 72. San’an Opto LED Chip and Module Product Portfolio
Table 73. San’an Opto Recent Development
Table 74. Cree Company Information
Table 75. Cree Business Overview
Table 76. Cree LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 77. Cree LED Chip and Module Product Portfolio
Table 78. Cree Recent Development
Table 79. OSRAM Company Information
Table 80. OSRAM Business Overview
Table 81. OSRAM LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)

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Table 82. OSRAM LED Chip and Module Product Portfolio
Table 83. OSRAM Recent Development
Table 84. Samsung Company Information
Table 85. Samsung Business Overview
Table 86. Samsung LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 87. Samsung LED Chip and Module Product Portfolio
Table 88. Samsung Recent Development
Table 89. Toyoda Gosei Company Information
Table 90. Toyoda Gosei Business Overview
Table 91. Toyoda Gosei LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 92. Toyoda Gosei LED Chip and Module Product Portfolio
Table 93. Toyoda Gosei Recent Development
Table 94. Seoul Semiconductor Company Information
Table 95. Seoul Semiconductor Business Overview
Table 96. Seoul Semiconductor LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 97. Seoul Semiconductor LED Chip and Module Product Portfolio
Table 98. Seoul Semiconductor Recent Development
Table 99. Philips Lumileds Company Information
Table 100. Philips Lumileds Business Overview
Table 101. Philips Lumileds LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 102. Philips Lumileds LED Chip and Module Product Portfolio
Table 103. Philips Lumileds Recent Development
Table 104. ETI Company Information
Table 105. ETI Business Overview
Table 106. ETI LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 107. ETI LED Chip and Module Product Portfolio
Table 108. ETI Recent Development
Table 109. LG Innotek Company Information
Table 110. LG Innotek Business Overview
Table 111. LG Innotek LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 112. LG Innotek LED Chip and Module Product Portfolio
Table 113. LG Innotek Recent Development
Table 114. NiChia Company Information

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Table 115. NiChia Business Overview
Table 116. NiChia LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 117. NiChia LED Chip and Module Product Portfolio
Table 118. NiChia Recent Development
Table 119. HC SemiTek Company Information
Table 120. HC SemiTek Business Overview
Table 121. HC SemiTek LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 122. HC SemiTek LED Chip and Module Product Portfolio
Table 123. HC SemiTek Recent Development
Table 124. Lextar Company Information
Table 125. Lextar Business Overview
Table 126. Lextar LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 127. Lextar LED Chip and Module Product Portfolio
Table 128. Lextar Recent Development
Table 129. Lattice Power Company Information
Table 130. Lattice Power Business Overview
Table 131. Lattice Power LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 132. Lattice Power LED Chip and Module Product Portfolio
Table 133. Lattice Power Recent Development
Table 134. OPTO-TECH Company Information
Table 135. OPTO-TECH Business Overview
Table 136. OPTO-TECH LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 137. OPTO-TECH LED Chip and Module Product Portfolio
Table 138. OPTO-TECH Recent Development
Table 139. Tyntek Company Information
Table 140. Tyntek Business Overview
Table 141. Tyntek LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 142. Tyntek LED Chip and Module Product Portfolio
Table 143. Tyntek Recent Development
Table 144. Genesis Photonics Company Information
Table 145. Genesis Photonics Business Overview
Table 146. Genesis Photonics LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)

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Table 147. Genesis Photonics LED Chip and Module Product Portfolio
Table 148. Genesis Photonics Recent Development
Table 149. Formosa Epitaxy Company Information
Table 150. Formosa Epitaxy Business Overview
Table 151. Formosa Epitaxy LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 152. Formosa Epitaxy LED Chip and Module Product Portfolio
Table 153. Formosa Epitaxy Recent Development
Table 154. Changelight Company Information
Table 155. Changelight Business Overview
Table 156. Changelight LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 157. Changelight LED Chip and Module Product Portfolio
Table 158. Changelight Recent Development
Table 159. Aucksun Company Information
Table 160. Aucksun Business Overview
Table 161. Aucksun LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 162. Aucksun LED Chip and Module Product Portfolio
Table 163. Aucksun Recent Development
Table 164. TongFang Company Information
Table 165. TongFang Business Overview
Table 166. TongFang LED Chip and Module Sales (K Sq.in.), Revenue (US$ Million), Price (USD/Sq.in.) and Gross Margin (2019-2024)
Table 167. TongFang LED Chip and Module Product Portfolio
Table 168. TongFang Recent Development
Table 169. North America LED Chip and Module Revenue by Type (2019-2024) & (US$ Million)
Table 170. North America LED Chip and Module Revenue by Type (2025-2030) & (US$ Million)
Table 171. North America LED Chip and Module Sales by Type (2019-2024) & (K Sq.in.)
Table 172. North America LED Chip and Module Sales by Type (2025-2030) & (K Sq.in.)
Table 173. North America LED Chip and Module Sales Price by Type (2019-2024) & (USD/Sq.in.)
Table 174. North America LED Chip and Module Sales Price by Type (2025-2030) & (USD/Sq.in.)
Table 175. North America LED Chip and Module Revenue by Application (2019-2024) &

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(US$ Million)
Table 176. North America LED Chip and Module Revenue by Application (2025-2030) & (US$ Million)
Table 177. North America LED Chip and Module Sales by Application (2019-2024) & (K Sq.in.)
Table 178. North America LED Chip and Module Sales by Application (2025-2030) & (K Sq.in.)
Table 179. North America LED Chip and Module Sales Price by Application (2019-2024) & (USD/Sq.in.)
Table 180. North America LED Chip and Module Sales Price by Application (2025-2030) & (USD/Sq.in.)
Table 181. North America LED Chip and Module Revenue Grow Rate by Country (2019 VS 2023 VS 2030) & (US$ Million)
Table 182. North America LED Chip and Module Revenue Grow Rate by Country (2019-2024) & (US$ Million)
Table 183. North America LED Chip and Module Revenue Grow Rate by Country (2025-2030) & (US$ Million)
Table 184. North America LED Chip and Module Sales by Country (2019 VS 2023 VS 2030) & (K Sq.in.)
Table 185. North America LED Chip and Module Sales by Country (2019-2024) & (K Sq.in.)
Table 186. North America LED Chip and Module Sales by Country (2025-2030) & (K Sq.in.)
Table 187. North America LED Chip and Module Sales Price by Country (2019-2024) & (USD/Sq.in.)
Table 188. North America LED Chip and Module Sales Price by Country (2025-2030) & (USD/Sq.in.)
Table 189. U.S. LED Chip and Module Revenue (2019-2030) & (US$ Million)
Table 190. Canada LED Chip and Module Revenue (2019-2030) & (US$ Million)
Table 191. Europe LED Chip and Module Revenue by Type (2019-2024) & (US$ Million)
Table 192. Europe LED Chip and Module Revenue by Type (2025-2030) & (US$ Million)
Table 193. Europe LED Chip and Module Sales by Type (2019-2024) & (K Sq.in.)
Table 194. Europe LED Chip and Module Sales by Type (2025-2030) & (K

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