

# **Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) LED Chip and Module Market 2018, Forecast to 2023**

<https://marketpublishers.com/r/GD7DA7B1B12EN.html>

Date: June 2018

Pages: 152

Price: US\$ 4,880.00 (Single User License)

ID: GD7DA7B1B12EN

## **Abstracts**

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.

### **SCOPE OF THE REPORT:**

This report focuses on the LED Chip and Module in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. LED backlight market demands fell short of expectations, which caused sliding ASP of LED chips and LED package. This trend has been markedly observed during second half of 2015, when LED chip and package prices sharply plunged to the point that some LED chip and package spec prices are now close to material costs. Many manufacturers have incurred losses as a result. Even though manufacturers in the LED industry are being pressured to lower prices in the short term, in the long run there will be limited room for further LED price cuts. This can be explained by the growing number of manufacturers withdrawing from the market in the near future, as LED prices is close to manufacturing costs and reduce companies' profitability. Chinese LED companies listed on the A stock have been acquiring international manufacturers through issuing shares on the market, or after receiving government financial support. Some Chinese manufacturers are targeting major international LED players' patents and lighting brands, in hopes of strengthening their patent portfolio and

oversea distribution channels. Additionally, more Chinese LED manufacturers are also transforming their business models. Some LED manufacturers aiming to leave behind hotly contended red sea markets are entering other market sectors through mergers and acquisitions.

The worldwide market for LED Chip and Module is expected to grow at a CAGR of roughly 5.1% over the next five years, will reach 48600 million US\$ in 2023, from 36100 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

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

### Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

### Market Segment by Type, covers

Lateral Chip

Vertical Chip

Flip Chip

### Market Segment by Applications, can be divided into

General Lighting

Automotive Lighting

Backlighting

There are 15 Chapters to deeply display the global LED Chip and Module market.

Chapter 1, to describe LED Chip and Module Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of LED Chip and Module, with sales, revenue, and price of LED Chip and Module, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of LED Chip and Module, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, LED Chip and Module market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe LED Chip and Module sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

## Contents

### 1 MARKET OVERVIEW

#### 1.1 LED Chip and Module Introduction

#### 1.2 Market Analysis by Type

##### 1.2.1 Lateral Chip

##### 1.2.2 Vertical Chip

##### 1.2.3 Flip Chip

#### 1.3 Market Analysis by Applications

##### 1.3.1 General Lighting

##### 1.3.2 Automotive Lighting

##### 1.3.3 Backlighting

#### 1.4 Market Analysis by Regions

##### 1.4.1 North America (United States, Canada and Mexico)

###### 1.4.1.1 United States Market States and Outlook (2013-2023)

###### 1.4.1.2 Canada Market States and Outlook (2013-2023)

###### 1.4.1.3 Mexico Market States and Outlook (2013-2023)

##### 1.4.2 Europe (Germany, France, UK, Russia and Italy)

###### 1.4.2.1 Germany Market States and Outlook (2013-2023)

###### 1.4.2.2 France Market States and Outlook (2013-2023)

###### 1.4.2.3 UK Market States and Outlook (2013-2023)

###### 1.4.2.4 Russia Market States and Outlook (2013-2023)

###### 1.4.2.5 Italy Market States and Outlook (2013-2023)

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

###### 1.4.3.1 China Market States and Outlook (2013-2023)

###### 1.4.3.2 Japan Market States and Outlook (2013-2023)

###### 1.4.3.3 Korea Market States and Outlook (2013-2023)

###### 1.4.3.4 India Market States and Outlook (2013-2023)

###### 1.4.3.5 Southeast Asia Market States and Outlook (2013-2023)

##### 1.4.4 South America, Middle East and Africa

###### 1.4.4.1 Brazil Market States and Outlook (2013-2023)

###### 1.4.4.2 Egypt Market States and Outlook (2013-2023)

###### 1.4.4.3 Saudi Arabia Market States and Outlook (2013-2023)

###### 1.4.4.4 South Africa Market States and Outlook (2013-2023)

###### 1.4.4.5 Nigeria Market States and Outlook (2013-2023)

#### 1.5 Market Dynamics

##### 1.5.1 Market Opportunities

##### 1.5.2 Market Risk

### 1.5.3 Market Driving Force

## 2 MANUFACTURERS PROFILES

### 2.1 Epistar

#### 2.1.1 Business Overview

##### 2.1.1.1 Epistar Description

##### 2.1.1.2 Epistar Headquarter, Main Business and Finance Overview

#### 2.1.2 Epistar LED Chip and Module Product Introduction

##### 2.1.2.1 LED Chip and Module Production Bases, Sales Regions and Major Competitors

##### 2.1.2.2 LED Chip and Module Product Information

#### 2.1.3 Epistar LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

##### 2.1.3.1 Epistar LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

##### 2.1.3.2 Global Epistar LED Chip and Module Market Share in 2017

### 2.2 San'an Opto

#### 2.2.1 Business Overview

##### 2.2.1.1 San'an Opto Description

##### 2.2.1.2 San'an Opto Headquarter, Main Business and Finance Overview

#### 2.2.2 San'an Opto LED Chip and Module Product Introduction

##### 2.2.2.1 LED Chip and Module Production Bases, Sales Regions and Major Competitors

##### 2.2.2.2 LED Chip and Module Product Information

#### 2.2.3 San'an Opto LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

##### 2.2.3.1 San'an Opto LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

##### 2.2.3.2 Global San'an Opto LED Chip and Module Market Share in 2017

### 2.3 Cree

#### 2.3.1 Business Overview

##### 2.3.1.1 Cree Description

##### 2.3.1.2 Cree Headquarter, Main Business and Finance Overview

#### 2.3.2 Cree LED Chip and Module Product Introduction

##### 2.3.2.1 LED Chip and Module Production Bases, Sales Regions and Major Competitors

##### 2.3.2.2 LED Chip and Module Product Information

#### 2.3.3 Cree LED Chip and Module Sales, Price, Revenue, Gross Margin and Market

## Share (2016-2017)

### 2.3.3.1 Cree LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

#### 2.3.3.2 Global Cree LED Chip and Module Market Share in 2017

## 2.4 OSRAM

### 2.4.1 Business Overview

#### 2.4.1.1 OSRAM Description

#### 2.4.1.2 OSRAM Headquarter, Main Business and Finance Overview

### 2.4.2 OSRAM LED Chip and Module Product Introduction

#### 2.4.2.1 LED Chip and Module Production Bases, Sales Regions and Major Competitors

#### 2.4.2.2 LED Chip and Module Product Information

### 2.4.3 OSRAM LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

#### 2.4.3.1 OSRAM LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

#### 2.4.3.2 Global OSRAM LED Chip and Module Market Share in 2017

## 2.5 Samsung

### 2.5.1 Business Overview

#### 2.5.1.1 Samsung Description

#### 2.5.1.2 Samsung Headquarter, Main Business and Finance Overview

### 2.5.2 Samsung LED Chip and Module Product Introduction

#### 2.5.2.1 LED Chip and Module Production Bases, Sales Regions and Major Competitors

#### 2.5.2.2 LED Chip and Module Product Information

### 2.5.3 Samsung LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

#### 2.5.3.1 Samsung LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

#### 2.5.3.2 Global Samsung LED Chip and Module Market Share in 2017

## 2.6 Toyoda Gosei

### 2.6.1 Business Overview

#### 2.6.1.1 Toyoda Gosei Description

#### 2.6.1.2 Toyoda Gosei Headquarter, Main Business and Finance Overview

### 2.6.2 Toyoda Gosei LED Chip and Module Product Introduction

#### 2.6.2.1 LED Chip and Module Production Bases, Sales Regions and Major Competitors

#### 2.6.2.2 LED Chip and Module Product Information

### 2.6.3 Toyoda Gosei LED Chip and Module Sales, Price, Revenue, Gross Margin and



## Market Share (2016-2017)

2.6.3.1 Toyoda Gosei LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.6.3.2 Global Toyoda Gosei LED Chip and Module Market Share in 2017

## 2.7 Seoul Semiconductor

2.7.1 Business Overview

2.7.1.1 Seoul Semiconductor Description

2.7.1.2 Seoul Semiconductor Headquarter, Main Business and Finance Overview

2.7.2 Seoul Semiconductor LED Chip and Module Product Introduction

2.7.2.1 LED Chip and Module Production Bases, Sales Regions and Major

Competitors

2.7.2.2 LED Chip and Module Product Information

2.7.3 Seoul Semiconductor LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.7.3.1 Seoul Semiconductor LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.7.3.2 Global Seoul Semiconductor LED Chip and Module Market Share in 2017

## 2.8 Philips Lumileds

2.8.1 Business Overview

2.8.1.1 Philips Lumileds Description

2.8.1.2 Philips Lumileds Headquarter, Main Business and Finance Overview

2.8.2 Philips Lumileds LED Chip and Module Product Introduction

2.8.2.1 LED Chip and Module Production Bases, Sales Regions and Major

Competitors

2.8.2.2 LED Chip and Module Product Information

2.8.3 Philips Lumileds LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.8.3.1 Philips Lumileds LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.8.3.2 Global Philips Lumileds LED Chip and Module Market Share in 2017

## 2.9 ETI

2.9.1 Business Overview

2.9.1.1 ETI Description

2.9.1.2 ETI Headquarter, Main Business and Finance Overview

2.9.2 ETI LED Chip and Module Product Introduction

2.9.2.1 LED Chip and Module Production Bases, Sales Regions and Major

Competitors

2.9.2.2 LED Chip and Module Product Information

2.9.3 ETI LED Chip and Module Sales, Price, Revenue, Gross Margin and Market



## Share (2016-2017)

### 2.9.3.1 ETI LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

#### 2.9.3.2 Global ETI LED Chip and Module Market Share in 2017

## 2.10 LG Innotek

### 2.10.1 Business Overview

#### 2.10.1.1 LG Innotek Description

#### 2.10.1.2 LG Innotek Headquarter, Main Business and Finance Overview

### 2.10.2 LG Innotek LED Chip and Module Product Introduction

#### 2.10.2.1 LED Chip and Module Production Bases, Sales Regions and Major

## Competitors

#### 2.10.2.2 LED Chip and Module Product Information

### 2.10.3 LG Innotek LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

#### 2.10.3.1 LG Innotek LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

#### 2.10.3.2 Global LG Innotek LED Chip and Module Market Share in 2017

## 2.11 NiChia

### 2.11.1 Business Overview

#### 2.11.2 NiChia LED Chip and Module Product Introduction

### 2.11.3 NiChia LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

## 2.12 HC SemiTek

### 2.12.1 Business Overview

#### 2.12.2 HC SemiTek LED Chip and Module Product Introduction

### 2.12.3 HC SemiTek LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

## 2.13 Lextar

### 2.13.1 Business Overview

#### 2.13.2 Lextar LED Chip and Module Product Introduction

### 2.13.3 Lextar LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

## 2.14 Lattice Power

### 2.14.1 Business Overview

#### 2.14.2 Lattice Power LED Chip and Module Product Introduction

### 2.14.3 Lattice Power LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

## 2.15 OPTO-TECH

### 2.15.1 Business Overview

- 2.15.2 OPTO-TECH LED Chip and Module Product Introduction
- 2.15.3 OPTO-TECH LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.16 Tyntek
  - 2.16.1 Business Overview
  - 2.16.2 Tyntek LED Chip and Module Product Introduction
  - 2.16.3 Tyntek LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.17 Genesis Photonics
  - 2.17.1 Business Overview
  - 2.17.2 Genesis Photonics LED Chip and Module Product Introduction
  - 2.17.3 Genesis Photonics LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.18 Formosa Epitaxy
  - 2.18.1 Business Overview
  - 2.18.2 Formosa Epitaxy LED Chip and Module Product Introduction
  - 2.18.3 Formosa Epitaxy LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.19 Changelight
  - 2.19.1 Business Overview
  - 2.19.2 Changelight LED Chip and Module Product Introduction
  - 2.19.3 Changelight LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.20 Aucksun
  - 2.20.1 Business Overview
  - 2.20.2 Aucksun LED Chip and Module Product Introduction
  - 2.20.3 Aucksun LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.21 TongFang
  - 2.21.1 Business Overview
  - 2.21.2 TongFang LED Chip and Module Product Introduction
  - 2.21.3 TongFang LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### **3 GLOBAL LED CHIP AND MODULE MARKET COMPETITION, BY MANUFACTURER**

- 3.1 Global LED Chip and Module Sales and Market Share by Manufacturer (2016-2017)
- 3.2 Global LED Chip and Module Revenue and Market Share by Manufacturer

(2016-2017)

3.3 Global LED Chip and Module Price by Manufacturer (2016-2017)

3.4 Market Concentration Rate

3.4.1 Top 3 LED Chip and Module Manufacturer Market Share in 2017

3.4.2 Top 5 LED Chip and Module Manufacturer Market Share in 2017

3.5 Market Competition Trend

## **4 GLOBAL LED CHIP AND MODULE MARKET ANALYSIS BY REGIONS**

4.1 Global LED Chip and Module Sales, Revenue and Market Share by Regions

4.1.1 Global LED Chip and Module Sales by Regions (2013-2018)

4.1.2 Global LED Chip and Module Revenue by Regions (2013-2018)

4.2 North America LED Chip and Module Sales, Revenue and Growth Rate  
(2013-2018)

4.3 Europe LED Chip and Module Sales, Revenue and Growth Rate (2013-2018)

4.4 Asia-Pacific LED Chip and Module Sales, Revenue and Growth Rate (2013-2018)

4.5 South America LED Chip and Module Sales, Revenue and Growth Rate  
(2013-2018)

4.6 Middle East and Africa LED Chip and Module Sales, Revenue and Growth Rate  
(2013-2018)

## **5 NORTH AMERICA LED CHIP AND MODULE BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS**

5.1 North America LED Chip and Module Sales, Revenue and Market Share by  
Countries

5.1.1 North America LED Chip and Module Sales by Countries (2013-2018)

5.1.2 North America LED Chip and Module Revenue by Countries (2013-2018)

5.1.3 United States LED Chip and Module Sales and Growth Rate (2013-2018)

5.1.4 Canada LED Chip and Module Sales and Growth Rate (2013-2018)

5.1.5 Mexico LED Chip and Module Sales and Growth Rate (2013-2018)

5.2 North America LED Chip and Module Sales and Revenue (Value) by Manufacturers  
(2016-2017)

5.2.1 North America LED Chip and Module Sales by Manufacturers (2016-2017)

5.2.2 North America LED Chip and Module Revenue by Manufacturers (2016-2017)

5.3 North America LED Chip and Module Sales, Revenue and Market Share by Type  
(2013-2018)

5.3.1 North America LED Chip and Module Sales and Sales Share by Type  
(2013-2018)

5.3.2 North America LED Chip and Module Revenue and Revenue Share by Type (2013-2018)

5.4 North America LED Chip and Module Sales, Revenue and Market Share by Application (2013-2018)

5.4.1 North America LED Chip and Module Sales and Sales Share by Application (2013-2018)

5.4.2 North America LED Chip and Module Revenue and Revenue Share by Application (2013-2018)

## **6 EUROPE LED CHIP AND MODULE BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS**

6.1 Europe LED Chip and Module Sales, Revenue and Market Share by Countries

6.1.1 Europe LED Chip and Module Sales by Countries (2013-2018)

6.1.2 Europe LED Chip and Module Revenue by Countries (2013-2018)

6.1.3 Germany LED Chip and Module Sales and Growth Rate (2013-2018)

6.1.4 UK LED Chip and Module Sales and Growth Rate (2013-2018)

6.1.5 France LED Chip and Module Sales and Growth Rate (2013-2018)

6.1.6 Russia LED Chip and Module Sales and Growth Rate (2013-2018)

6.1.7 Italy LED Chip and Module Sales and Growth Rate (2013-2018)

6.2 Europe LED Chip and Module Sales and Revenue (Value) by Manufacturers (2016-2017)

6.2.1 Europe LED Chip and Module Sales by Manufacturers (2016-2017)

6.2.2 Europe LED Chip and Module Revenue by Manufacturers (2016-2017)

6.3 Europe LED Chip and Module Sales, Revenue and Market Share by Type (2013-2018)

6.3.1 Europe LED Chip and Module Sales and Sales Share by Type (2013-2018)

6.3.2 Europe LED Chip and Module Revenue and Revenue Share by Type (2013-2018)

6.4 Europe LED Chip and Module Sales, Revenue and Market Share by Application (2013-2018)

6.4.1 Europe LED Chip and Module Sales and Sales Share by Application (2013-2018)

6.4.2 Europe LED Chip and Module Revenue and Revenue Share by Application (2013-2018)

## **7 ASIA-PACIFIC LED CHIP AND MODULE BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS**

## 7.1 Asia-Pacific LED Chip and Module Sales, Revenue and Market Share by Countries

7.1.1 Asia-Pacific LED Chip and Module Sales by Countries (2013-2018)

7.1.2 Asia-Pacific LED Chip and Module Revenue by Countries (2013-2018)

7.1.3 China LED Chip and Module Sales and Growth Rate (2013-2018)

7.1.4 Japan LED Chip and Module Sales and Growth Rate (2013-2018)

7.1.5 Korea LED Chip and Module Sales and Growth Rate (2013-2018)

7.1.6 India LED Chip and Module Sales and Growth Rate (2013-2018)

7.1.7 Southeast Asia LED Chip and Module Sales and Growth Rate (2013-2018)

## 7.2 Asia-Pacific LED Chip and Module Sales and Revenue (Value) by Manufacturers (2016-2017)

7.2.1 Asia-Pacific LED Chip and Module Sales by Manufacturers (2016-2017)

7.2.2 Asia-Pacific LED Chip and Module Revenue by Manufacturers (2016-2017)

## 7.3 Asia-Pacific LED Chip and Module Sales, Revenue and Market Share by Type (2013-2018)

7.3.1 Asia-Pacific LED Chip and Module Sales and Sales Share by Type (2013-2018)

7.3.2 Asia-Pacific LED Chip and Module Revenue and Revenue Share by Type (2013-2018)

## 7.4 Asia-Pacific LED Chip and Module Sales, Revenue and Market Share by Application (2013-2018)

7.4.1 Asia-Pacific LED Chip and Module Sales and Sales Share by Application (2013-2018)

7.4.2 Asia-Pacific LED Chip and Module Revenue and Revenue Share by Application (2013-2018)

# **8 SOUTH AMERICA LED CHIP AND MODULE BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS**

## 8.1 South America LED Chip and Module Sales, Revenue and Market Share by Countries

8.1.1 South America LED Chip and Module Sales by Countries (2013-2018)

8.1.2 South America LED Chip and Module Revenue by Countries (2013-2018)

8.1.3 Brazil LED Chip and Module Sales and Growth Rate (2013-2018)

8.1.4 Argentina LED Chip and Module Sales and Growth Rate (2013-2018)

8.1.5 Colombia LED Chip and Module Sales and Growth Rate (2013-2018)

## 8.2 South America LED Chip and Module Sales and Revenue (Value) by Manufacturers (2016-2017)

8.2.1 South America LED Chip and Module Sales by Manufacturers (2016-2017)

8.2.2 South America LED Chip and Module Revenue by Manufacturers (2016-2017)

## 8.3 South America LED Chip and Module Sales, Revenue and Market Share by Type

(2013-2018)

8.3.1 South America LED Chip and Module Sales and Sales Share by Type

(2013-2018)

8.3.2 South America LED Chip and Module Revenue and Revenue Share by Type

(2013-2018)

8.4 South America LED Chip and Module Sales, Revenue and Market Share by Application (2013-2018)

8.4.1 South America LED Chip and Module Sales and Sales Share by Application (2013-2018)

8.4.2 South America LED Chip and Module Revenue and Revenue Share by Application (2013-2018)

## **9 MIDDLE EAST AND AFRICA LED CHIP AND MODULE BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS**

9.1 Middle East and Africa LED Chip and Module Sales, Revenue and Market Share by Countries

9.1.1 Middle East and Africa LED Chip and Module Sales by Countries (2013-2018)

9.1.2 Middle East and Africa LED Chip and Module Revenue by Countries (2013-2018)

9.1.3 Saudi Arabia LED Chip and Module Sales and Growth Rate (2013-2018)

9.1.4 UAE LED Chip and Module Sales and Growth Rate (2013-2018)

9.1.5 Egypt LED Chip and Module Sales and Growth Rate (2013-2018)

9.1.6 Nigeria LED Chip and Module Sales and Growth Rate (2013-2018)

9.1.7 South Africa LED Chip and Module Sales and Growth Rate (2013-2018)

9.2 Middle East and Africa LED Chip and Module Sales and Revenue (Value) by Manufacturers (2016-2017)

9.2.1 Middle East and Africa LED Chip and Module Sales by Manufacturers (2016-2017)

9.2.2 Middle East and Africa LED Chip and Module Revenue by Manufacturers (2016-2017)

9.3 Middle East and Africa LED Chip and Module Sales, Revenue and Market Share by Type (2013-2018)

9.3.1 Middle East and Africa LED Chip and Module Sales and Sales Share by Type (2013-2018)

9.3.1 Middle East and Africa LED Chip and Module Revenue and Revenue Share by Type (2013-2018)

9.4 Middle East and Africa LED Chip and Module Sales, Revenue and Market Share by Application (2013-2018)



9.4.1 Middle East and Africa LED Chip and Module Sales and Sales Share by Application (2013-2018)

9.4.2 Middle East and Africa LED Chip and Module Revenue and Revenue Share by Application (2013-2018)

## **10 GLOBAL LED CHIP AND MODULE MARKET SEGMENT BY TYPE**

10.1 Global LED Chip and Module Sales, Revenue and Market Share by Type (2013-2018)

10.1.1 Global LED Chip and Module Sales and Market Share by Type (2013-2018)

10.1.2 Global LED Chip and Module Revenue and Market Share by Type (2013-2018)

10.2 Lateral Chip Sales Growth and Price

10.2.1 Global Lateral Chip Sales Growth (2013-2018)

10.2.2 Global Lateral Chip Price (2013-2018)

10.3 Vertical Chip Sales Growth and Price

10.3.1 Global Vertical Chip Sales Growth (2013-2018)

10.3.2 Global Vertical Chip Price (2013-2018)

10.4 Flip Chip Sales Growth and Price

10.4.1 Global Flip Chip Sales Growth (2013-2018)

10.4.2 Global Flip Chip Price (2013-2018)

## **11 GLOBAL LED CHIP AND MODULE MARKET SEGMENT BY APPLICATION**

11.1 Global LED Chip and Module Sales Market Share by Application (2013-2018)

11.2 General Lighting Sales Growth (2013-2018)

11.3 Automotive Lighting Sales Growth (2013-2018)

11.4 Backlighting Sales Growth (2013-2018)

## **12 LED CHIP AND MODULE MARKET FORECAST (2018-2023)**

12.1 Global LED Chip and Module Sales, Revenue and Growth Rate (2018-2023)

12.2 LED Chip and Module Market Forecast by Regions (2018-2023)

12.2.1 North America LED Chip and Module Market Forecast (2018-2023)

12.2.2 Europe LED Chip and Module Market Forecast (2018-2023)

12.2.3 Asia-Pacific LED Chip and Module Market Forecast (2018-2023)

12.2.4 South America LED Chip and Module Market Forecast (2018-2023)

12.2.5 Middle East and Africa LED Chip and Module Market Forecast (2018-2023)

12.3 LED Chip and Module Market Forecast by Type (2018-2023)

12.3.1 Global LED Chip and Module Sales Forecast by Type (2018-2023)



- 12.3.2 Global LED Chip and Module Market Share Forecast by Type (2018-2023)
- 12.4 LED Chip and Module Market Forecast by Application (2018-2023)
  - 12.4.1 Global LED Chip and Module Sales Forecast by Application (2018-2023)
  - 12.4.2 Global LED Chip and Module Market Share Forecast by Application (2018-2023)

## **13 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS**

- 13.1 Sales Channel
  - 13.1.1 Direct Marketing
  - 13.1.2 Indirect Marketing
  - 13.1.3 Marketing Channel Future Trend
- 13.2 Distributors, Traders and Dealers

## **14 RESEARCH FINDINGS AND CONCLUSION**

## **15 APPENDIX**

- 15.1 Methodology
- 15.2 Data Source

## List Of Tables

### LIST OF TABLES AND FIGURES

Figure LED Chip and Module Picture

Table Product Specifications of LED Chip and Module

Figure Global LED Chip and Module CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (USD Million)

Figure Global LED Chip and Module CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (Sales)

Figure Global Sales Market Share of LED Chip and Module by Types in 2017

Figure Lateral Chip Picture

Table Major Manufacturers of Lateral Chip

Figure Vertical Chip Picture

Table Major Manufacturers of Vertical Chip

Figure Flip Chip Picture

Table Major Manufacturers of Flip Chip

Figure LED Chip and Module Sales Market Share by Applications in 2017

Figure General Lighting Picture

Figure Automotive Lighting Picture

Figure Backlighting Picture

Figure United States LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Canada LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Mexico LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Germany LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure France LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure UK LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Russia LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Italy LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure China LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Japan LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Korea LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure India LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Southeast Asia LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Brazil LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Egypt LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Figure Saudi Arabia LED Chip and Module Revenue (Value) and Growth Rate

(2013-2023)

Figure South Africa LED Chip and Module Revenue (Value) and Growth Rate

(2013-2023)

Figure Nigeria LED Chip and Module Revenue (Value) and Growth Rate (2013-2023)

Table Epistar Headquarter, Established, Main Business and Finance Overview (2017)

Table Epistar LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table Epistar LED Chip and Module Product

Table Epistar LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Epistar LED Chip and Module Sales Market Share in 2017

Figure Global Epistar LED Chip and Module Revenue Market Share in 2017

Table San'an Opto Headquarter, Established, Main Business and Finance Overview (2017)

Table San'an Opto LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table San'an Opto LED Chip and Module Product

Table San'an Opto LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global San'an Opto LED Chip and Module Sales Market Share in 2017

Figure Global San'an Opto LED Chip and Module Revenue Market Share in 2017

Table Cree Headquarter, Established, Main Business and Finance Overview (2017)

Table Cree LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table Cree LED Chip and Module Product

Table Cree LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Cree LED Chip and Module Sales Market Share in 2017

Figure Global Cree LED Chip and Module Revenue Market Share in 2017

Table OSRAM Headquarter, Established, Main Business and Finance Overview (2017)

Table OSRAM LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table OSRAM LED Chip and Module Product

Table OSRAM LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global OSRAM LED Chip and Module Sales Market Share in 2017

Figure Global OSRAM LED Chip and Module Revenue Market Share in 2017

Table Samsung Headquarter, Established, Main Business and Finance Overview (2017)

Table Samsung LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table Samsung LED Chip and Module Product

Table Samsung LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Samsung LED Chip and Module Sales Market Share in 2017

Figure Global Samsung LED Chip and Module Revenue Market Share in 2017

Table Toyoda Gosei Headquarter, Established, Main Business and Finance Overview (2017)

Table Toyoda Gosei LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table Toyoda Gosei LED Chip and Module Product

Table Toyoda Gosei LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Toyoda Gosei LED Chip and Module Sales Market Share in 2017

Figure Global Toyoda Gosei LED Chip and Module Revenue Market Share in 2017

Table Seoul Semiconductor Headquarter, Established, Main Business and Finance Overview (2017)

Table Seoul Semiconductor LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table Seoul Semiconductor LED Chip and Module Product

Table Seoul Semiconductor LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Seoul Semiconductor LED Chip and Module Sales Market Share in 2017

Figure Global Seoul Semiconductor LED Chip and Module Revenue Market Share in 2017

Table Philips Lumileds Headquarter, Established, Main Business and Finance Overview (2017)

Table Philips Lumileds LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table Philips Lumileds LED Chip and Module Product

Table Philips Lumileds LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Philips Lumileds LED Chip and Module Sales Market Share in 2017

Figure Global Philips Lumileds LED Chip and Module Revenue Market Share in 2017

Table ETI Headquarter, Established, Main Business and Finance Overview (2017)

Table ETI LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table ETI LED Chip and Module Product

Table ETI LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global ETI LED Chip and Module Sales Market Share in 2017

Figure Global ETI LED Chip and Module Revenue Market Share in 2017

Table LG Innotek Headquarter, Established, Main Business and Finance Overview (2017)

Table LG Innotek LED Chip and Module Production Bases, Sales Regions and Major Competitors

Table LG Innotek LED Chip and Module Product

Table LG Innotek LED Chip and Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global LG Innotek LED Chip and Module Sales Market Share in 2017

Figure Global LG Innotek LED Chip and Module Revenue Market Share in 2017

Table NiChia

Table NiChia LED Chip and Module

Table HC SemiTek

Table HC SemiTek LED Chip and Module

Table Lextar

Table Lextar LED Chip and Module

Table Lattice Power

Table Lattice Power LED Chip and Module

Table OPTO-TECH

Table OPTO-TECH LED Chip and Module

Table Tyntek

Table Tyntek LED Chip and Module

Table Genesis Photonics

Table Genesis Photonics LED Chip and Module

Table Formosa Epitaxy

Table Formosa Epitaxy LED Chip and Module

Table Changelight

Table Changelight LED Chip and Module

Table Aucksun

Table Aucksun LED Chip and Module

Table TongFang

Table TongFang LED Chip and Module

Table Global LED Chip and Module Sales by Manufacturer (2016-2017)

Figure Global LED Chip and Module Sales Market Share by Manufacturer in 2016

Figure Global LED Chip and Module Sales Market Share by Manufacturer in 2017

Table Global LED Chip and Module Revenue by Manufacturer (2016-2017)

Figure Global LED Chip and Module Revenue Market Share by Manufacturer in 2016

Figure Global LED Chip and Module Revenue Market Share by Manufacturer in 2017

Table Global LED Chip and Module Price by Manufacturer (2016-2017)

Figure Top 3 LED Chip and Module Manufacturer (Revenue) Market Share in 2017

Figure Top 6 LED Chip and Module Manufacturer (Revenue) Market Share in 2017

Figure Global LED Chip and Module Sales and Growth Rate (2013-2018)

Figure Global LED Chip and Module Revenue and Growth Rate (2013-2018)

Table Global LED Chip and Module Sales by Regions (2013-2018)

Table Global LED Chip and Module Sales Market Share by Regions (2013-2018)

Table Global LED Chip and Module Revenue by Regions (2013-2018)

Figure Global LED Chip and Module Revenue Market Share by Regions in 2013

Figure Global LED Chip and Module Revenue Market Share by Regions in 2017

Figure North America LED Chip and Module Sales and Growth Rate (2013-2018)

Figure North America LED Chip and Module Revenue and Growth Rate (2013-2018)

Figure Europe LED Chip and Module Sales and Growth Rate (2013-2018)

Figure Europe LED Chip and Module Revenue and Growth Rate (2013-2018)

Figure Asia-Pacific LED Chip and Module Sales and Growth Rate (2013-2018)

Figure Asia-Pacific LED Chip and Module Revenue and Growth Rate (2013-2018)

Figure South America LED Chip and Module Sales and Growth Rate (2013-2018)

Figure South America LED Chip and Module Revenue and Growth Rate (2013-2018)

Figure Middle East and Africa LED Chip and Module Sales and Growth Rate  
(2013-2018)

Figure Middle East and Africa LED Chip and Module Revenue and Growth Rate  
(2013-2018)

Figure North America LED Chip and Module Revenue and Growth Rate (2013-2018)

Table North America LED Chip and Module Sales by Countries (2013-2018)

Table North America LED Chip and Module Sales Market Share by Countries  
(2013-2018)

Figure North America LED Chip and Module Sales Market Share by Countries in 2013

Figure North America LED Chip and Module Sales Market Share by Countries in 2017

Table North America LED Chip and Module Revenue by Countries (2013-2018)

Table North America LED Chip and Module Revenue Market Share by Countries  
(2013-2018)

Figure North America LED Chip and Module Revenue Market Share by Countries in  
2013

Figure North America LED Chip and Module Revenue Market Share by Countries in  
2017

Figure United States LED Chip and Module Sales and Growth Rate (2013-2018)

Figure Canada LED Chip and Module Sales and Growth Rate (2013-2018)



Figure Mexico LED Chip and Module Sales and Growth Rate (2013-2018)

Table North America LED Chip and Module Sales by Manufacturer (2016-2017)

Figure North America LED Chip and Module Sales Market Share by Manufacturer in 2016

Figure North America LED Chip and Module Sales Market Share by Manufacturer in 2017

Table North America LED Chip and Module Revenue by Manufacturer (2016-2017)

Figure North America LED Chip and Module Revenue Market Share by Manufacturer in 2016

Figure North America LED Chip and Module Revenue Market Share by Manufacturer in 2017

Table North America LED Chip and Module Sales by Type (2013-2018)

Table North America LED Chip and Module Sales Share by Type (2013-2018)

Table North America LED Chip and Module Revenue by Type (2013-2018)

Table North America LED Chip and Module Revenue Share by Type (2013-2018)

Table North America LED Chip and Module Sales by Application (2013-2018)

Table North America LED Chip and Module Sales Share by Application (2013-2018)

Table North America LED Chip and Module Revenue by Application (2013-2018)

Table North America LED Chip and Module Revenue Share by Application (2013-2018)

Figure Europe LED Chip and Module Revenue and Growth Rate (2013-2018)

Table Europe LED Chip and Module Sales by Countries (2013-2018)

Table Europe LED Chip and Module Sales Market Share by Countries (2013-2018)

Table Europe LED Chip and Module Revenue by Countries (2013-2018)

Figure Europe LED Chip and Module Revenue Market Share by Countries in 2016

Figure Europe LED Chip and Module Revenue Market Share by Countries in 2017

Figure Germany LED Chip and Module Sales and Growth Rate (2013-2018)

Figure UK LED Chip and Module Sales and Growth Rate (2013-2018)

Figure France LED Chip and Module Sales and Growth Rate (2013-2018)

Figure Russia LED Chip and Module Sales and Growth Rate (2013-2018)

Figure Italy LED Chip and Module Sales and Growth Rate (2013-2018)

Table Europe LED Chip and Module Sales by Manufacturer (2016-2017)

Figure Europe LED Chip and Module Sales Market Share by Manufacturer in 2016

Figure Europe LED Chip and Module Sales Market Share by Manufacturer in 2017

Table Europe LED Chip and Module Revenue by Manufacturer (2016-2017)

Figure Europe LED Chip and Module Revenue Market Share by Manufacturer in 2016

Figure Europe LED Chip and Module Revenue Market Share by Manufacturer in 2017

Table Europe LED Chip and Module Sales by Type (2013-2018)

Table Europe LED Chip and Module Sales Share by Type (2013-2018)

Table Europe LED Chip and Module Revenue by Type (2013-2018)



Table Europe LED Chip and Module Revenue Share by Type (2013-2018)  
Table Europe LED Chip and Module Sales by Application (2013-2018)  
Table Europe LED Chip and Module Sales Share by Application (2013-2018)  
Table Europe LED Chip and Module Revenue by Application (2013-2018)  
Table Europe LED Chip and Module Revenue Share by Application (2013-2018)  
Figure Asia-Pacific LED Chip and Module Revenue and Growth Rate (2013-2018)  
Table Asia-Pacific LED Chip and Module Sales by Countries (2013-2018)  
Table Asia-Pacific LED Chip and Module Sales Market Share by Countries (2013-2018)  
Figure Asia-Pacific LED Chip and Module Sales Market Share by Countries 2017  
Table Asia-Pacific LED Chip and Module Revenue by Countries (2013-2018)  
Figure Asia-Pacific LED Chip and Module Revenue Market Share by Countries 2017  
Figure China LED Chip and Module Sales and Growth Rate (2013-2018)  
Figure Japan LED Chip and Module Sales and Growth Rate (2013-2018)  
Figure Korea LED Chip and Module Sales and Growth Rate (2013-2018)  
Figure India LED Chip and Module Sales and Growth Rate (2013-2018)  
Figure Southeast Asia LED Chip and Module Sales and Growth Rate (2013-2018)  
Table Asia-Pacific LED Chip and Module Sales by Manufacturer (2016-2017)  
Figure Asia-Pacific LED Chip and Module Sales Market Share by Manufacturer in 2016  
Figure Asia-Pacific LED Chip and Module Sales Market Share by Manufacturer in 2017  
Table Asia-Pacific LED Chip and Module Revenue by Manufacturer (2016-2017)  
Figure Asia-Pacific LED Chip and Module Revenue Market Share by Manufacturer in 2016  
Figure Asia-Pacific LED Chip and Module Revenue Market Share by Manufacturer in 2017  
Table Asia-Pacific LED Chip and Module Sales by Type (2013-2018)  
Table Asia-Pacific LED Chip and Module Sales Share by Type (2013-2018)  
Table Asia-Pacific LED Chip and Module Revenue by Type (2013-2018)  
Table Asia-Pacific LED Chip and Module Revenue Share by Type (2013-2018)  
Table Asia-Pacific LED Chip and Module Sales by Application (2013-2018)  
Table Asia-Pacific LED Chip and Module Sales Share by Application (2013-2018)  
Table Asia-Pacific LED Chip and Module Revenue by Application (2013-2018)  
Table Asia-Pacific LED Chip and Module Revenue Share by Application (2013-2018)  
Figure South America LED Chip and Module Revenue and Growth Rate (2013-2018)  
Table South America LED Chip and Module Sales by Countries (2013-2018)  
Table South America LED Chip and Module Sales Market Share by Countries (2013-2018)  
Figure South America LED Chip and Module Sales Market Share by Countries in 2017  
Table South America LED Chip and Module Revenue by Countries (2013-2018)  
Table South America LED Chip and Module Revenue Market Share by Countries

(2013-2018)

Figure South America LED Chip and Module Revenue Market Share by Countries in 2017

Figure Brazil LED Chip and Module Sales and Growth Rate (2013-2018)

Figure Argentina LED Chip and Module Sales and Growth Rate (2013-2018)

Figure Colombia LED Chip and Module Sales and Growth Rate (2013-2018)

Table South America LED Chip and Module Sales by Manufacturer (2016-2017)

Figure South America LED Chip and Module Sales Market Share by Manufacturer in 2016

Figure South America LED Chip and Module Sales Market Share by Manufacturer in 2017

Table South America LED Chip and Module Revenue by Manufacturer (2016-2017)

Figure South America LED Chip and Module Revenue Market Share by Manufacturer in 2016

Figure South America LED Chip and Module Revenue Market Share by Manufacturer in 2017

Table South America LED Chip and Module Sales by Type (2013-2018)

Table South America LED Chip and Module Sales Share by Type (2013-2018)

Table South America LED Chip and Module Revenue by Type (2013-2018)

Table South America LED Chip and Module Revenue Share by Type (2013-2018)

Table South America LED Chip and Module Sales by Application (2013-2018)

Table South America LED Chip and Module Sales Share by Application (2013-2018)

Table South America LED Chip and Module Revenue by Application (2013-2018)

Table South America LED Chip and Module Revenue Share by Application (2013-2018)

Figure Middle East and Africa LED Chip and Module Revenue and Growth Rate (2013-2018)

Table Middle East and Africa LED Chip and Module Sales by Countries (2013-2018)

Table Middle East and Africa LED Chip and Module Sales Market Share by Countries (2013-2018)

Figure Middle East and Africa LED Chip and Module Sales Market Share by Countries in 2017

Table Middle East and Africa LED Chip and Module Revenue by Countries (2013-2018)

Table Middle East and Africa LED Chip and Module Revenue Market Share by Countries (2013-2018)

Figure Middle East and Africa LED Chip and Module Revenue Market Share by Countries in 2013

Figure Middle East and Africa LED Chip and Module Revenue Market Share by Countries in 2017

Figure Saudi Arabia LED Chip and Module Sales and Growth Rate (2013-2018)

Figure UAE LED Chip and Module Sales and Growth Rate (2013-2018)  
Figure Egypt LED Chip and Module Sales and Growth Rate (2013-2018)  
Figure Nigeria LED Chip and Module Sales and Growth Rate (2013-2018)  
Figure South Africa LED Chip and Module Sales and Growth Rate (2013-2018)  
Table Middle East and Africa LED Chip and Module Sales by Manufacturer (2016-2017)  
Figure Middle East and Africa LED Chip and Module Sales Market Share by Manufacturer in 2016  
Figure Middle East and Africa LED Chip and Module Sales Market Share by Manufacturer in 2017  
Table Middle East and Africa LED Chip and Module Revenue by Manufacturer (2016-2017)  
Figure Middle East and Africa LED Chip and Module Revenue Market Share by Manufacturer in 2016  
Figure Middle East and Africa LED Chip and Module Revenue Market Share by Manufacturer in 2017  
Table Middle East and Africa LED Chip and Module Sales by Type (2013-2018)  
Table Middle East and Africa LED Chip and Module Sales Share by Type (2013-2018)  
Table Middle East and Africa LED Chip and Module Revenue by Type (2013-2018)  
Table Middle East and Africa LED Chip and Module Revenue Share by Type (2013-2018)  
Table Middle East and Africa LED Chip and Module Sales by Application (2013-2018)  
Table Middle East and Africa LED Chip and Module Sales Share by Application (2013-2018)  
Table Middle East and Africa LED Chip and Module Revenue by Application (2013-2018)  
Table Middle East and Africa LED Chip and Module Revenue Share by Application (2013-2018)  
Table Global LED Chip and Module Sales by Type (2013-2018)  
Table Global LED Chip and Module Sales Share by Type (2013-2018)  
Table Global LED Chip and Module Revenue by Type (2013-2018)  
Table Global LED Chip and Module Revenue Share by Type (2013-2018)  
Figure Global Lateral Chip Sales Growth (2013-2018)  
Figure Global Lateral Chip Price (2013-2018)  
Figure Global Vertical Chip Sales Growth (2013-2018)  
Figure Global Vertical Chip Price (2013-2018)  
Figure Global Flip Chip Sales Growth (2013-2018)  
Figure Global Flip Chip Price (2013-2018)  
Table Global LED Chip and Module Sales by Application (2013-2018)  
Table Global LED Chip and Module Sales Share by Application (2013-2018)

Figure Global General Lighting Sales Growth (2013-2018)  
Figure Global Automotive Lighting Sales Growth (2013-2018)  
Figure Global Backlighting Sales Growth (2013-2018)  
Figure Global LED Chip and Module Sales, Revenue and Growth Rate (2018-2023)  
Table Global LED Chip and Module Sales Forecast by Regions (2018-2023)  
Table Global LED Chip and Module Market Share Forecast by Regions (2018-2023)  
Figure North America Sales LED Chip and Module Market Forecast (2018-2023)  
Figure Europe Sales LED Chip and Module Market Forecast (2018-2023)  
Figure Asia-Pacific Sales LED Chip and Module Market Forecast (2018-2023)  
Figure South America Sales LED Chip and Module Market Forecast (2018-2023)  
Figure Middle East and Africa Sales LED Chip and Module Market Forecast (2018-2023)  
Table Global LED Chip and Module Sales Forecast by Type (2018-2023)  
Table Global LED Chip and Module Market Share Forecast by Type (2018-2023)  
Table Global LED Chip and Module Sales Forecast by Application (2018-2023)  
Table Global LED Chip and Module Market Share Forecast by Application (2018-2023)  
Table Distributors/Traders/ Dealers List

## I would like to order

Product name: Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) LED Chip and Module Market 2018, Forecast to 2023

Product link: <https://marketpublishers.com/r/GD7DA7B1B12EN.html>

Price: US\$ 4,880.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GD7DA7B1B12EN.html>