

LED Chip Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

<https://marketpublishers.com/r/L48D2C4A31C9EN.html>

Date: June 2022

Pages: 106

Price: US\$ 2,499.00 (Single User License)

ID: L48D2C4A31C9EN

Abstracts

The global LED chip market reached a value of US\$ 21.7 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 47.8 Billion by 2027, exhibiting a CAGR of 13.96% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

LED stands for light emitting diode, which is a two-lead semiconductor light source. These are used in a wide range of applications that vary from backlighting in electronic products such as LCD TVs, laptops, and phones, as well as in street lighting and automotive lighting, and general illumination. This can be attributed to the better picture quality offered by LEDs due to their higher degree of power efficiency and brightness. The LED chip, also known as the die, represents the most essential and cost-intensive component of the LED. It is a critical factor in determining the light quality. The chips have different ratings for brightness, wavelength and voltage. After installing the LED chip and passing current through an electrical source, a particular color of light is emitted, which is determined by the dominant wavelength.

These lights are more energy-efficient in terms of power consumption and provide high luminous intensity. They use electroluminescence to produce light without generating heat and convert electricity into energy with minimum wastage. Furthermore, these products have a longer lifespan as compared to incandescent bulbs, which further drives their demand. However, with technological innovations and research and development, the cost of manufacturing LEDs per kilolumen has decreased. This has significantly reduced the average selling price (ASP) of LEDs, making them a preferred choice among consumers. Moreover, incentives provided by governments across the

globe to promote the usage of energy-efficient lighting is also elevating the demand for LED products.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global LED chip market, along with forecasts at the global and regional level from 2022-2027. Our report has categorized the market based on product and application.

Breakup by Product:

- Blue LED Chips
- Red LED Chips
- Green LED Chips
- Infrared LED Chips
- Yellow LED Chips
- White LED Chips
- Others

Breakup by Application:

- Backlighting
- Illumination
- Automotive
- Signs and Signal
- Others

Breakup by Region:

- Asia Pacific
- North America
- Europe
- Middle East and Africa
- Latin America

Competitive Landscape:

The competitive landscape of the market is characterized by the presence of numerous small and large manufacturers who compete in terms of prices and quality. Some of the leading players operating in the market are:

AVA Technologies, Inc.
Bright LED Electronics Corporation
Cree, Inc.
Bridgelux, Inc.
Hitachi Cable, Ltd.
Huga Optech, Inc.
Dowa Electronics Materials Co., Ltd.
Epistar Corporation
Nichia Corporation
Formosa Epitaxy, Inc.
Goldeneye, Inc.
Kingbright Electronic Co. Ltd.
Optek Technology (TT Electronic PLC)
OSA Opto Light GmbH
Osram Opto Semiconductors GmbH

Key Questions Answered in This Report:

How has the global LED chip market performed so far and how will it perform in the coming years?
What are the key regional markets in the industry?
What has been the impact of COVID-19 on the global LED chip industry?
What is the breakup of the market based on the product?
What is the breakup of the market based on the application?
What are the various stages in the value chain of the global LED chip industry?
What are the key driving factors and challenges in the global LED chip industry?
What is the structure of the global LED chip industry and who are the key players?
What is the degree of competition in the global LED chip industry?

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