

Global Chip-on-Board Light Emitting Diodes (COB LEDs) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Chip-on-Board Light Emitting Diodes (COB LEDs) market size was valued at USD 4525.9 million in 2023 and is forecast to a readjusted size of USD 5774.2 million by 2030 with a CAGR of 3.5% during review period.

Chip on board (COB) Light Emitting Diode (LED) is the latest technology of packaging multi LED into one lighting module. Chip diodes of LED are bonded into the PCB by the manufacturers, making thermal conductivity move towards the circuit board resulting in lower heat emission. LED light source is preferred over traditional lighting due to its longer life span and brightness. But normal LED may cause uncomfortable glare which is further rectified in COB LED. Furthermore chip on board LED lights provide higher intensity along with homogenous luminosity helping in the rise in demand for chip on board LED lights globally. In addition to this advancement in design through innovation along with cost savings by large scale manufacture of COB LED lights further enhances the demand for chip on board LED lights. Application wise global chip on board LED market can be segmented into automotive, illumination and backlighting among others.

Relatively new to the LED market, chip on board (COB) LEDs offer many advantages over the standard options. COB LEDs are basically multiple LED chips (typically nine or more) bonded directly to a substrate by the manufacturer to form a single module. Since the individual LEDs used in a COB are chips and not traditionally packaged, the chips can be mounted such that they take up less space and the highest potential of the LED chips can be obtained. When the COB LED package is energized, it appears more like a lighting panel than multiple individual lights as would be the case when using several SMD LEDs mounted closely together.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

The Global Info Research report includes an overview of the development of the Chip-on-Board Light Emitting Diodes (COB LEDs) industry chain, the market status of Automotive (Organized Structure, Unorganized Structure), Illumination (Organized Structure, Unorganized Structure), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Chip-on-Board Light Emitting Diodes (COB LEDs).

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

Key Features:

The report presents comprehensive understanding of the Chip-on-Board Light Emitting Diodes (COB LEDs) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Chip-on-Board Light Emitting Diodes (COB LEDs) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size,

including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Organized Structure, Unorganized Structure).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Chip-on-Board Light Emitting Diodes (COB LEDs) market.

Regional Analysis: The report involves examining the Chip-on-Board Light Emitting Diodes (COB LEDs) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Chip-on-Board Light Emitting Diodes (COB LEDs) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Chip-on-Board Light Emitting Diodes (COB LEDs):

Company Analysis: Report covers individual Chip-on-Board Light Emitting Diodes (COB LEDs) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Chip-on-Board Light Emitting Diodes (COB LEDs) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Illumination).

Technology Analysis: Report covers specific technologies relevant to Chip-on-Board Light Emitting Diodes (COB LEDs). It assesses the current state, advancements, and potential future developments in Chip-on-Board Light Emitting Diodes (COB LEDs) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Chip-on-Board Light

Emitting Diodes (COB LEDs) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

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

Market Segmentation

Chip-on-Board Light Emitting Diodes (COB LEDs) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

- Organized Structure

- Unorganized Structure

Market segment by Application

- Automotive

- Illumination

Major players covered

- Cree Inc.

- Lumileds

- Osram Opto Semiconductors GmbH

- Samsung Electronics Co. Ltd.

- LG Innotek Co. Ltd.

Citizen Electronics Co. Ltd.

Nichia Corporation

Seoul Semiconductor Co. Ltd.

Everlight Electronics Co. Ltd.

Lumens Co. Ltd

Cooper Lighting

PerkinElmer

Sharp Electronics

Lextar Electronics Corporation

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

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

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

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

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

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

Chapter 1, to describe Chip-on-Board Light Emitting Diodes (COB LEDs) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Chip-on-Board Light Emitting Diodes

(COB LEDs), with price, sales, revenue and global market share of Chip-on-Board Light Emitting Diodes (COB LEDs) from 2019 to 2024.

Chapter 3, the Chip-on-Board Light Emitting Diodes (COB LEDs) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Chip-on-Board Light Emitting Diodes (COB LEDs) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

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

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Chip-on-Board Light Emitting Diodes (COB LEDs) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Chip-on-Board Light Emitting Diodes (COB LEDs).

Chapter 14 and 15, to describe Chip-on-Board Light Emitting Diodes (COB LEDs) sales channel, distributors, customers, research findings and conclusion.

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