

Global Silicon Based LED Chips Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Based LED Chips market size was valued at US\$ 3.1 million in 2024 and is forecast to a readjusted size of USD 5.1 million by 2031 with a CAGR of 6.5% during review period.

Silicon-based LED chips are LEDs (Light Emitting Diodes) manufactured using silicon as the substrate material upon which the light-emitting layers, typically made of Gallium Nitride (GaN), are grown. Traditionally, sapphire or silicon carbide (SiC) have been the dominant substrate materials. However, silicon offers advantages such as lower cost, larger wafer sizes (leading to higher production yields), and compatibility with existing silicon semiconductor manufacturing infrastructure. This makes silicon-based LEDs potentially more cost-effective to produce.

The industry trend for silicon-based LED chips is one of increasing adoption and development. While sapphire-based LEDs still dominate the market, silicon-based LEDs are gaining traction due to their potential for cost reduction. This is particularly important in price-sensitive applications like general lighting. Key trends include:

Improved Performance: Ongoing research and development are focused on improving the light output, efficiency, and reliability of silicon-based LEDs to match or exceed those of sapphire-based LEDs. This involves addressing challenges like lattice mismatch between GaN and silicon, which can lead to defects and reduced performance.

Larger Wafer Sizes: The use of larger silicon wafers (e.g., 8-inch or 12-inch) is enabling higher production volumes and lower per-chip costs, further enhancing the economic

competitiveness of silicon-based LEDs.

Integration with Existing Infrastructure: The compatibility of silicon-based LED manufacturing with existing silicon semiconductor fabrication facilities allows manufacturers to leverage existing investments and expertise, reducing capital expenditures and accelerating time-to-market.

Applications in General Lighting and Beyond: While initially targeted at general lighting applications, silicon-based LEDs are also being explored for other applications such as automotive lighting, displays, and micro-LEDs.

This report is a detailed and comprehensive analysis for global Silicon Based LED Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Silicon Based LED Chips market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Silicon Based LED Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Silicon Based LED Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Silicon Based LED Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Based LED Chips

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Based LED Chips market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung, Osram, LatticePower, Bridgelux, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Silicon Based LED Chips market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Size (mil) 32x32

Size (mil) 36x36

Size (mil) 45x45

Others

Market segment by Application

Automotive

Consumer Goods

Consumer Electronics

Others

Major players covered

Samsung

Osram

LatticePower

Bridgelux

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 Silicon Based LED Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Based LED Chips, with price, sales quantity, revenue, and global market share of Silicon Based LED Chips from 2020 to 2025.

Chapter 3, the Silicon Based LED Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Based LED Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Silicon Based LED Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Silicon Based LED Chips.

Chapter 14 and 15, to describe Silicon Based LED Chips sales channel, distributors, customers, research findings and conclusion.

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