

# Global SiMiP (Silicon-based Micro LED in Package) Display Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global SiMiP (Silicon-based Micro LED in Package) Display Chip market size was valued at US\$ 37.68 million in 2025 and is forecast to a readjusted size of US\$ 824 million by 2032 with a CAGR of 39.4% during review period.

SiMiP (Silicon-based Micro LED in Package) Display Chip is a silicon-based packaged micro-LED chip technology that integrates red, green, and blue primary color micro-pixels on a silicon substrate to achieve full-color output in micro-pitch displays. This technology simplifies the manufacturing process, eliminating the need for mass transfer and complex repair steps, improving first-pass yield, reducing manufacturing costs, and avoiding the use of toxic materials. The RGB three-primary-color pixels are highly consistent in emission wavelength, operating voltage, and light distribution, fundamentally solving the color shift problem of traditional micro-pitch solutions. SiMiP chips are widely used in microdisplays, wearable devices, AR/VR headsets, and micro-projection light sources, providing miniaturized display solutions with high brightness, high resolution, and low power consumption. In 2025, global shipments of SiMiP (Silicon-based Micro LED in Package) Display Chips were approximately 134,000 units, with an average price of approximately US\$273.29 per unit and a gross margin of approximately 17.93%. Once fully operational, companies can achieve a monthly production capacity of 150,000 units.

As a key innovation in silicon-based packaged micro-LED technology, SiMiP chips represent the development of micro-pitch display technology towards high yield, low cost, color consistency, and optimized system integration. Compared to the traditional MicroLED manufacturing route, which requires massive transfer and repair, SiMiP

integrates RGB three-primary-color pixels on a single chip, greatly simplifying the process path, improving first-pass yield, and effectively reducing manufacturing difficulty and material waste. This is of great significance in alleviating the yield bottleneck and cost pressure that have long constrained the industry. With the rapid expansion of terminal markets such as AR/VR, wearable devices, and micro-projection displays, SiMiP chips, with their advantages of packaging friendliness, high thermal management efficiency, good luminous consistency, and high device reliability, are gradually becoming one of the mainstream technologies in the micro-display sub-sector. Market growth drivers include the increasing demand for high-brightness micro-displays in consumer electronics, the stringent requirements for module stability in industrial and automotive displays, and the continuous pursuit of packaging integration across the industry chain. At the same time, the maturity of SiMiP technology has also promoted the development of related packaging ecosystems, such as driver IC matching, module design standardization, and micro-display solution integration, forming a more complete industry chain. Despite competition from alternative technologies such as COLED or quantum dot microdisplays, SiMiP remains highly attractive in the short term due to its advantages in yield and consistency, and is expected to maintain rapid growth in the global microdisplay market.

This report is a detailed and comprehensive analysis for global SiMiP (Silicon-based Micro LED in Package) Display Chip 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 SiMiP (Silicon-based Micro LED in Package) Display Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiMiP (Silicon-based Micro LED in Package) Display Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiMiP (Silicon-based Micro LED in Package) Display Chip market size and

forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiMiP (Silicon-based Micro LED in Package) Display Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **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 SiMiP (Silicon-based Micro LED in Package) Display Chip

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 SiMiP (Silicon-based Micro LED in Package) Display Chip 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 Leyard, Kopin, Samsung?eMagin?, Sony, LG, Mojo Vision, Raxium?Google?, MICLEDI Microdisplays, Plessey Semiconductors, BOE, etc.

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

### **Market Segmentation**

SiMiP (Silicon-based Micro LED in Package) Display Chip market is split by Type and by Application. For the period 2021-2032, 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

Monochrome SiMiP??

Full-color SiMiP??

Market segment by Power

Low-power Chips

High-power Chips

Market segment by Inch

8-inch Silicon Substrate

12-inch Silicon Substrate

Market segment by Application

Consumer Electronics (XR/Wearable Devices)

Automotive Displays

Medical

Industrial

Other

Major players covered

Leyard

Kopin

Samsung?eMagin?

Sony

LG

Mojo Vision

Raxium?Google?

MICLEDI Microdisplays

Plessey Semiconductors

BOE

Xi'an Saffles Semiconductor Technology Co., Ltd.

Xiamen Tianma Display Technology Co., Ltd.

Xiamen Extremely PQ Display Technology Co., Ltd.

Foshan NationStar Optoelectronics Co., Ltd.

Jade Bird Display Co., Ltd.

Raysolve Optoelectronics (Suzhou) Company Limited

Shenzhen STD Technology Co., Ltd.

Joinwin Micro-Led Technology Co., Ltd.

HKC

GZOT

Innovision Technology

LEKIN

Jingneng Optoelectronics Co., Ltd.

Sinyopto

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 SiMiP (Silicon-based Micro LED in Package) Display Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiMiP (Silicon-based Micro LED in Package) Display Chip, with price, sales quantity, revenue, and global market share of SiMiP (Silicon-based Micro LED in Package) Display Chip from 2021 to 2026.

Chapter 3, the SiMiP (Silicon-based Micro LED in Package) Display Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiMiP (Silicon-based Micro LED in Package) Display Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and SiMiP (Silicon-based Micro LED in Package) Display Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 SiMiP (Silicon-based Micro LED in Package) Display Chip.

Chapter 14 and 15, to describe SiMiP (Silicon-based Micro LED in Package) Display Chip sales channel, distributors, customers, research findings and conclusion.

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