

# Global SiMiP (Silicon-based Micro LED in Package) Display Chip Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global SiMiP (Silicon-based Micro LED in Package) Display Chip market size is expected to reach \$ 824 million by 2032, rising at a market growth of 39.4% CAGR during the forecast period (2026-2032).

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 studies the global SiMiP (Silicon-based Micro LED in Package) Display Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiMiP (Silicon-based Micro LED in Package) Display Chip and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiMiP (Silicon-based Micro LED in Package) Display Chip that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global SiMiP (Silicon-based Micro LED in Package) Display Chip total production and demand, 2021-2032, (K Units)

Global SiMiP (Silicon-based Micro LED in Package) Display Chip total production value, 2021-2032, (USD Million)

Global SiMiP (Silicon-based Micro LED in Package) Display Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global SiMiP (Silicon-based Micro LED in Package) Display Chip consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: SiMiP (Silicon-based Micro LED in Package) Display Chip domestic

production, consumption, key domestic manufacturers and share

Global SiMiP (Silicon-based Micro LED in Package) Display Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global SiMiP (Silicon-based Micro LED in Package) Display Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global SiMiP (Silicon-based Micro LED in Package) Display Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiMiP (Silicon-based Micro LED in Package) Display Chip market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SiMiP (Silicon-based Micro LED in Package) Display Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiMiP (Silicon-based Micro LED in Package) Display Chip Market, Segmentation by Type:

Monochrome SiMiP??

Full-color SiMiP??

Global SiMiP (Silicon-based Micro LED in Package) Display Chip Market, Segmentation by Power:

Low-power Chips

High-power Chips

Global SiMiP (Silicon-based Micro LED in Package) Display Chip Market, Segmentation by Inch:

8-inch Silicon Substrate

12-inch Silicon Substrate

Global SiMiP (Silicon-based Micro LED in Package) Display Chip Market, Segmentation by Application:

Consumer Electronics (XR/Wearable Devices)

Automotive Displays

Medical

Industrial

Other

#### Companies Profiled:

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

**Key Questions Answered:**

1. How big is the global SiMiP (Silicon-based Micro LED in Package) Display Chip market?
2. What is the demand of the global SiMiP (Silicon-based Micro LED in Package) Display Chip market?
3. What is the year over year growth of the global SiMiP (Silicon-based Micro LED in Package) Display Chip market?
4. What is the production and production value of the global SiMiP (Silicon-based Micro LED in Package) Display Chip market?
5. Who are the key producers in the global SiMiP (Silicon-based Micro LED in Package) Display Chip market?
6. What are the growth factors driving the market demand?

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