

Global Embedded Silicon Capacitor Market Growth 2026-2032

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Abstracts

The global Embedded Silicon Capacitor market size is predicted to grow from US\$ 259 million in 2025 to US\$ 1603 million in 2032; it is expected to grow at a CAGR of 26.4% from 2026 to 2032.

An Embedded Silicon Capacitor refers to a high-density decoupling capacitor manufactured using silicon wafer processes and embedded within a chip package substrate, silicon interposer, RDL layer, SoC substrate, interposer, or advanced packaging.

It is neither a standard MLCC nor a traditional board-level surface-mount capacitor, but rather a chip-level or package-level power integrity component located near the power supply terminals of high-performance chips such as AI GPUs, CPUs, ASICs, HBM, and chiplets.

In 2025, global sales of embedded silicon capacitors are projected to reach 57.26 million units, with an average price of \$4.62 per unit.

AI GPUs and HBM Are the Major Drivers

The supply currents for AI GPUs, AI ASICs, HBM, and chiplet packages are increasing, and transient load changes are becoming faster. Traditional PCB-level MLCCs are located far from the chip core, have high parasitic inductance, and lack sufficient response speed; therefore, silicon capacitors embedded within packages have become a new essential component for high-end AI chips.

Samsung Electro-Mechanics disclosed in 2026 that its silicon capacitors are installed

inside high-performance semiconductor packages, such as those for AI server GPUs and HBM, to enhance power supply stability. Samsung also noted that silicon capacitors can eliminate noise and provide a stable power supply at the point closest to the semiconductor, with ESL/ESR values more than 100 times lower than those of traditional MLCCs.

LP Information, Inc. (LPI) ' newest research report, the "Embedded Silicon Capacitor Industry Forecast" looks at past sales and reviews total world Embedded Silicon Capacitor sales in 2025, providing a comprehensive analysis by region and market sector of projected Embedded Silicon Capacitor sales for 2026 through 2032. With Embedded Silicon Capacitor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Embedded Silicon Capacitor industry.

This Insight Report provides a comprehensive analysis of the global Embedded Silicon Capacitor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Embedded Silicon Capacitor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Embedded Silicon Capacitor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Embedded Silicon Capacitor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Embedded Silicon Capacitor.

This report presents a comprehensive overview, market shares, and growth opportunities of Embedded Silicon Capacitor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Substrate Embedded Silicon Capacitor

Interposer Embedded Silicon Capacitor

Package-top / Package-side Ultra-thin Silicon Capacitor

HBM Package Decoupling Silicon Capacitor

Other

Segmentation by Capacity:

Small-Capacity Embedded Silicon Capacitors

Medium-Capacity Embedded Silicon Capacitors

Large-Capacity Embedded Silicon Capacitors

Segmentation by Sales Channels:

Direct Sales

Distribution

Segmentation by Application:

AI GPU / AI ASIC Packaging

HBM / High-Bandwidth Memory Packaging

HPC CPU / Data Center Processors

Chiplet / 2.5D / 3D Packaging

Optical Communications / CPO / High-Speed Modules

High-Performance Automotive SoCs / ADAS

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Samsung Electro-Mechanics

Empower Semiconductor / ADI

Murata

ROHM

ELOHIM

Suna Optoelectronics

Inston Tech

Foin Micro

Key Questions Addressed in this Report

What is the 10-year outlook for the global Embedded Silicon Capacitor market?

What factors are driving Embedded Silicon Capacitor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Embedded Silicon Capacitor market opportunities vary by end market size?

How does Embedded Silicon Capacitor break out by Type, by Application?

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