

Global Glass Interposers for Advanced Packaging 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 Glass Interposers for Advanced Packaging market size was valued at US\$ 139 million in 2025 and is forecast to a readjusted size of US\$ 247 million by 2032 with a CAGR of 8.0% during review period.

Glass interposers for advanced packaging are high-density interconnect structures built on specialty glass, glass-ceramic, or structured glass as the core carrier. They are formed through processes such as through-glass vias, via metallization, thin-film redistribution layers, copper filling, surface copper plating, precision routing, bonding-pad formation, and panel-level processing. They are mainly positioned between logic chips, HBM, RF devices, optoelectronic chips, MEMS devices, and package substrates, and are used to provide vertical conduction, lateral fan-out, short-distance die-to-die interconnection, signal-integrity optimization, and mechanical support. This product primarily addresses the limitations of conventional organic substrates in large-area packages, including warpage, routing density, dimensional stability, and high-frequency loss, while also complementing silicon interposers in terms of area scalability, cost, and panel-level manufacturing. Its technology paths include ultrafast laser drilling, laser modification and etching, CO₂ laser processing, wet etching, TGV electroplating or conformal metallization, multilayer RDL stacking, glass thinning, glass metallization, panel-level mass production, and automated inspection. Typical applications include AI accelerators, high-performance computing, chiplet packaging, 2.5D and 3D integration, co-packaged optics, RF front ends, millimeter-wave modules, MEMS sensors, glass-based integrated passive devices, and microfluidic biochips. Major customers include advanced packaging houses, package substrate manufacturers, IDMs, foundries, AI chip companies, optical communication module companies, and RF device

manufacturers.

Glass interposers for advanced packaging are becoming an important platform material for high-density heterogeneous integration in the post-Moore era. Their industrial value comes from the combination of material properties, structural capability, and packaging architecture. Glass offers low dielectric loss, high rigidity, strong dimensional stability, and tunable coefficient of thermal expansion, which helps address the warpage, routing precision, dielectric loss, and thermo-mechanical matching limitations of conventional organic substrates in large-area packages. It can also complement silicon interposers in applications where area scalability and cost are critical. As AI accelerators, GPUs, server CPUs, network switch chips, and HBM stacks continue to drive package area, I/O count, die-to-die bandwidth, and power density higher, glass interposers are no longer limited to special carriers for RF, MEMS, or small-form-factor interconnection. They are forming broader opportunities in chiplet packaging, 2.5D and 3D integration, co-packaged optics, and glass core substrates. Future competition will not depend solely on glass material supply, but on whether suppliers can build a complete process loop covering glass selection, TGV formation, via metallization, copper filling, RDL routing, thinning, assembly, inspection, and reliability validation. Companies with integrated capabilities across materials, processing, routing, and packaging are more likely to enter high-end customer qualification chains and capture long-term share in AI and high-performance computing package upgrades.

From a technology perspective, glass interposers for advanced packaging are developing along multiple parallel paths, including wafer-level and panel-level processing, vertical conductive vias and surface redistribution layers, and the convergence of electrical and optoelectronic interconnection. Wafer-level TGV glass interposers are more suitable for early validation, RF, MEMS, IPD, and selected optoelectronic co-packaging applications, with the advantage of reusing semiconductor wafer-level processes and precision routing know-how. Panel-level glass core substrates are more closely aligned with the large-area requirements of AI accelerator packages and high-end package substrates, with the main goal of supporting multi-die integration through larger processing formats, lower unit cost, and better flatness. In conductive structures, the industry is seeing copper-filled, conformal metallization, glass-based RDL, and multilayer interconnect solutions, each with different trade-offs in via resistance, process difficulty, stress control, and reliability. On the application side, glass interposers are moving from purely electrical interconnection toward electrical-optical integration. Co-packaged optics, silicon photonic engines, optical modules, and high-speed data center interconnects require low loss, high bandwidth, and high-density packaging, creating a distinct growth path for glass-based optoelectronic interposers.

Therefore, product classification in this industry should not rely only on material or size. It should also consider delivery form, TGV metallization method, routing layer level, processing substrate, application scenario, and performance grade.

From a competitive landscape perspective, the global glass interposer industry for advanced packaging is still in the stage of sample qualification, pilot-line construction, and ecosystem collaboration. Stable mass-production market shares have not yet been established, but regional specialization is already becoming clear. Japanese companies have deep capabilities in specialty glass, glass core substrates, and large-format TGV samples. U.S. companies are more active in glass-based advanced packaging platforms, RF and photonics packaging, defense, and high-performance computing applications. German companies have strengths in structured glass, precision glass wafers, and interposer processing. Korean companies are advancing commercialization by leveraging their package substrate, memory, and group-level manufacturing resources. Chinese companies are rapidly catching up in TGV formation, glass-based circuitry, panel-level packaging, and optoelectronic co-packaging. In the coming years, industry growth will mainly come from large-area AI server chip packaging, chiplet interconnection, HBM-proximate integration, CPO optical interconnects, millimeter-wave RF, and high-end MEMS packaging. Because glass interposers involve materials, equipment, wet processes, electroplating, lithography, inspection, and package reliability, customer adoption cycles are long. In the short term, growth is more likely to come from samples, small-batch validation, and joint development orders. In the medium to long term, the industry is expected to enter scaled expansion as large-area AI packaging and panel-level packaging processes mature.

This report is a detailed and comprehensive analysis for global Glass Interposers for Advanced Packaging market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Substrate Form 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 Glass Interposers for Advanced Packaging market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Glass Interposers for Advanced Packaging market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Glass Interposers for Advanced Packaging market size and forecasts, by Substrate Form and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Glass Interposers for Advanced Packaging market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 Glass Interposers for Advanced Packaging

- 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 Glass Interposers for Advanced Packaging 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 AGC Inc., Corning Incorporated, SCHOTT AG, Plan Optik AG, Dai Nippon Printing Co., Ltd., Nippon Electric Glass Co., Ltd., SKC Co., Ltd. / Absolics Inc., Samsung Electro-Mechanics Co., Ltd., 3D Glass Solutions, Inc., Mosaic Microsystems, Inc., etc.

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

Market Segmentation

Glass Interposers for Advanced Packaging market is split by Substrate Form and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Substrate Form, 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 Substrate Form

Glass Wafers

Glass Panels

Glass Core Boards

Others

Market segment by Via Structure

Through Vias

Blind Vias

Others

Market segment by Processing Technology

Ultrafast Laser Drilling

Laser Modification Etching

Others

Market segment by Application

AI and High-Performance Computing Packaging

Optoelectronic Co-Packaging

RF Front-End Packaging

Others

Major players covered

AGC Inc.

Corning Incorporated

SCHOTT AG

Plan Optik AG

Dai Nippon Printing Co., Ltd.

Nippon Electric Glass Co., Ltd.

SKC Co., Ltd. / Absolics Inc.

Samsung Electro-Mechanics Co., Ltd.

3D Glass Solutions, Inc.

Mosaic Microsystems, Inc.

Samtec, Inc.

Xiamen Sky Semiconductor Technology Co., Ltd.

3D Chips (Guangdong) Technology Co., Ltd.

Shenzhen Photonics Valley Technology Co., Ltd.

Guangdong Fozhixin Microelectronics Technology Research Co., Ltd.

WG Tech (Jiangxi) Co., Ltd.

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 Glass Interposers for Advanced Packaging product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Glass Interposers for Advanced Packaging, with price, sales quantity, revenue, and global market share of Glass Interposers for Advanced Packaging from 2021 to 2026.

Chapter 3, the Glass Interposers for Advanced Packaging competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Glass Interposers for Advanced Packaging 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 Substrate Form and by Application, with sales market share and growth rate by Substrate Form, 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 Glass Interposers for Advanced Packaging market forecast, by regions, by Substrate Form, 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 Glass Interposers for Advanced Packaging.

Chapter 14 and 15, to describe Glass Interposers for Advanced Packaging sales channel, distributors, customers, research findings and conclusion.

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