

Global 2.5D MEMS Probe Card Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 2.5D MEMS Probe Card market size is expected to reach \$ 1501 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global 2.5D MEMS probe card production capacity is 15,000 units, with production reached approximately 10,300 units, with an average global market price of around US\$ 85,000 per unit. The market gross margin is mainly 35%-50%. The 2.5D MEMS probe card is a high-end microelectromechanical system (MEMS) probe card designed specifically for testing chips using 2.5D advanced packaging technology. Its core function is to simultaneously contact microbumps or through-silicon vias (TSVs) on the interposer using a high-density, high-precision three-dimensional microprobe structure, enabling wafer-level testing of the electrical performance, interoperability, and reliability of heterogeneous integrated chips (such as CPUs and HBMs). It addresses the challenges of smaller pitches, more complex layouts, and higher signal integrity requirements that traditional 2D probe cards cannot handle. The supply chain for 2.5D MEMS probe cards is a highly specialized collaborative network. The upstream consists of semiconductor material and equipment suppliers, providing critical items like silicon wafers, ceramic substrates, specialized coating materials, and lithography machines. The midstream is comprised of core probe card manufacturers and integrators, who utilize MEMS processes to fabricate micro-needles and precisely assemble them onto wiring substrates to complete the units. The downstream directly serves OSAT and foundries, acting as an indispensable test interface for their advanced packaging and testing processes.

The global 2.5D MEMS probe card market is poised for rapid growth, driven by the iterative advancements in AI, high-performance computing, and advanced packaging technologies. This product, with its ability to handle the complex testing requirements of

high-density heterogeneous integration, has become a key enabling tool for overcoming the bottlenecks of Moore's Law. Regionally, the North American market, driven by its leading chip design companies and tech giants in the AI race, will continue to generate cutting-edge demand and drive technological innovation. The Asia-Pacific market, as a global semiconductor manufacturing hub, is accelerating the deployment of advanced packaging and testing capacity to support and promote the large-scale application of this technology. The European market is also actively following suit, driven by high-end demand from automotive electronics and industrial applications. This technology presents extremely high barriers to entry, and the competitive landscape is dominated by a few international giants. Overall, the 2.5D MEMS probe card market is transitioning from technology verification to large-scale commercialization. Its performance will directly determine the pace of R&D and mass production of next-generation computing platforms, making its strategic value increasingly prominent.

This report studies the global 2.5D MEMS Probe Card production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 2.5D MEMS Probe Card 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 2.5D MEMS Probe Card that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 2.5D MEMS Probe Card total production and demand, 2021-2032, (K Units)

Global 2.5D MEMS Probe Card total production value, 2021-2032, (USD Million)

Global 2.5D MEMS Probe Card production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 2.5D MEMS Probe Card consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 2.5D MEMS Probe Card domestic production, consumption, key domestic manufacturers and share

Global 2.5D MEMS Probe Card production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 2.5D MEMS Probe Card production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 2.5D MEMS Probe Card production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 2.5D MEMS Probe Card 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 FormFactor, Technoprobe, MJC, JEM, TSE CO., Ltd., CHPT, Protec Mems Technology Inc.?, MPI Corporation?, Nidec SV Probe

Pte. Ltd, Korea Instrument

CO., Ltd, 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 2.5D MEMS Probe Card 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 2.5D MEMS Probe Card Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 2.5D MEMS Probe Card Market, Segmentation by Type:

MEMS Probe Card

Vertical Probe Card

Cantilever Probe Card

Global 2.5D MEMS Probe Card Market, Segmentation by Substrate Material:

Silicon

Glass/Quartz

Ceramic

Organic PCB

Others

Global 2.5D MEMS Probe Card Market, Segmentation by Chip Type:

Logic IC

Memory

RF

Advanced Packaging

Global 2.5D MEMS Probe Card Market, Segmentation by Application:

High-Performance Computing and AI Chips

High-End Memory

Networking and Communication Chips

Heterogeneous Chiplet Integration

Companies Profiled:

FormFactor

Technoprobe

MJC

JEM

TSE CO., Ltd.

CHPT

Protec Mems Technology Inc.?

MPI Corporation?

Nidec SV Probe

Pte. Ltd

Korea Instrument

CO., Ltd

STAr Technologies, Inc.?

Synergie CAD

Group SAS

Will-Technology

CO., Ltd

Protec Mems

Technology Inc

??Strongtest Semiconductor?

Key Questions Answered:

1. How big is the global 2.5D MEMS Probe Card market?
2. What is the demand of the global 2.5D MEMS Probe Card market?
3. What is the year over year growth of the global 2.5D MEMS Probe Card market?
4. What is the production and production value of the global 2.5D MEMS Probe Card market?
5. Who are the key producers in the global 2.5D MEMS Probe Card market?
6. What are the growth factors driving the market demand?

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