

Advanced Packaging Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/A0AC0FEFF09BEN.html>

Date: February 2023

Pages: 142

Price: US\$ 2,499.00 (Single User License)

ID: A0AC0FEFF09BEN

Abstracts

The global advanced packaging market size reached US\$ 37.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 74.7 Billion by 2028, exhibiting a growth rate (CAGR) of 11.2% during 2023-2028.

Advanced packaging is the interconnection and aggregation of components that encloses metallic parts and various devices, including wafers, logic units, and memory, to protect them from physical damage and corrosion during the final procedure of semiconductor manufacturing. It encompasses 2.5D, 3D-IC, system-in, and fan-out-wafer-level-package as a combination of different techniques. These packaging methods are implemented after determining multiple parameters, such as power consumption, operating conditions, measurable size, and costs. Advanced packaging increases the functionality of various electronic devices, ensures lower power consumption, provides better chip connectivity, and shields silicon chips from mechanical stresses or vibrations. As a result, it is extensively used in various electronic gadgets and devices.

Advanced Packaging Market Trends:

The global advanced packaging market is primarily driven by the rapid expansion in the electronics sector, along with the increasing demand for various consumer electronics, including wearables, desktops, smartphones, laptops, and miniaturized devices. In line with this, manufacturers are extensively utilizing advanced packaging to accomplish delicate patterning in wafers by reducing integrated circuit (IC) sizes in the semiconductor, which is acting as another growth-inducing factor. Furthermore, the widespread adoption of nano-sized robotic surgery equipment and sophisticated wearable devices has encouraged leading companies to rely on advanced packaging

techniques over conventional procedures to promote system optimization, which is contributing to the market growth. Additionally, the inclination toward fan-out wafer-level packaging, owing to its several benefits, including superior thermal performance, increased wafer-level yield, easier packaging system, and the acceptance of three-dimensional (3D) circuits, is impelling the market growth. Apart from this, strategic collaborations amongst key players to enhance product efficacy and the large-scale usage of artificial intelligence (AI), deep learning, and machine learning (ML) to combine processing elements and memories through high-speed interconnect are supporting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global advanced packaging market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type and end use.

Breakup by Type:

- Flip-Chip Ball Grid Array
- Flip Chip CSP
- Wafer Level CSP
- 5D/3D
- Fan Out WLP
- Others

Breakup by End Use:

- Consumer Electronics
- Automotive
- Industrial
- Healthcare
- Aerospace and Defense
- Others

Breakup by Region:

- North America
- United States
- Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Advanced Semiconductor Engineering Inc., Amkor Technology Inc., Analog Devices Inc., Brewer Science, ChipMOS Technologies Inc., Microchip Technology Inc., Powertech Technology Inc., Samsung Electronics Co. Ltd, S?SS MicroTec SE, Taiwan Semiconductor Manufacturing Company Limited, Texas Instruments Incorporated and Universal Instruments Corporation (CBA Group Inc.).

Key Questions Answered in This Report

1. What was the size of the global advanced packaging market in 2022?
2. What is the expected growth rate of the global advanced packaging market during 2023-2028?
3. What has been the impact of COVID-19 on the global advanced packaging market?
4. What are the key factors driving the global advanced packaging market?
5. What is the breakup of the global advanced packaging market based on the type?
6. What is the breakup of the global advanced packaging market based on the end use?

7. What are the key regions in the global advanced packaging market?
8. Who are the key players/companies in the global advanced packaging market?

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