

Advanced Packaging Market Size, Share & Trends Analysis Report By Packaging Type (Flip-Chip, Fan-Out WLP, Embedded-Die, Fan-In WLP, 2.5D/3D), By Application (Consumer Electronics, Automotive, Industrial, Healthcare), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Advanced Packaging Market Growth & Trends

The global advanced packaging market size is anticipated to reach USD 55.00 billion by 2030 and is projected to grow at a CAGR of 5.7% from 2025 to 2030, according to a new report by Grand View Research, Inc. The market is experiencing robust growth primarily due to the increasing demand for smaller, faster, and more energy-efficient electronic devices. As traditional Moore's Law scaling faces physical limitations, semiconductor manufacturers are turning to advanced packaging technologies such as 2.5D/3D integration, fan-out wafer-level packaging (FOWLP), and system-in-package (SiP) solutions to improve performance without shrinking transistor sizes. These technologies enable heterogeneous integration, allowing different types of chips to be combined in a single package, which is crucial for applications in artificial intelligence, automotive electronics, and data centers.

The proliferation of Internet of Things (IoT) devices, smartphones, and wearable technology is another significant driver for advanced packaging solutions. These devices require compact form factors while maintaining high performance and low power consumption - demands that advanced packaging technologies are uniquely

positioned to address. Additionally, the automotive industry's shift toward electric vehicles and autonomous driving systems necessitates sophisticated semiconductor packages that can withstand harsh environments while delivering reliable performance, further accelerating market growth.

The emergence of 5G technology and high-performance computing applications represents another crucial catalyst for the advanced packaging sector. These technologies demand unprecedented levels of interconnect density, thermal management, and signal integrity that only advanced packaging solutions can provide. The ability to integrate RF components, memory, and processors in tightly coupled packages is becoming essential for next-generation computing and communication systems, stimulating innovation and investment in packaging technologies.

Global supply chain diversification efforts following recent disruptions have also contributed to market expansion as countries and companies seek to establish resilient semiconductor manufacturing ecosystems. This has led to increased investment in advanced packaging facilities worldwide, with growth in Asia-Pacific regions. Furthermore, sustainability concerns are influencing packaging design choices, with manufacturers focusing on developing environmentally friendly materials and processes that reduce waste and energy consumption, aligning with broader industry trends toward green technology solutions.

Advanced Packaging Market Report Highlights

Based on packaging type, the flip chip segment accounted for the largest share, over 38.0% of the market in 2024. The embedded-die packaging type segment is expected to grow at the fastest CAGR of 6.3% during the forecast period.

Based on application, the consumer electronics application segment dominated the advanced packaging market in 2024 by accounting for the largest revenue share of over 51.0%.

The automotive application segment is projected to grow at the fastest CAGR of 6.3% over the forecast period of 2025 to 2030.

Asia Pacific dominated the market space by registering the largest revenue market share of over 43.0 in 2024 and is anticipated to grow

at the fastest CAGR of 6.2% during the forecast period.

In September 2024, Ont%li%Innovation Inc. announced the opening of its Packaging Applications Center of Excellence (PACE) in Wilmington, Massachusetts, marking a significant milestone in the advancement of panel-level packaging (PLP) technology. This first-of-its-kind facility in the U.S. is dedicated t%li%developing innovative PLP solutions that enable 2.5D and 3D chiplet architectures and AI packages.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Research Methodology
 - 1.1.1. Market Segmentation
 - 1.1.2. Market Definition
- 1.2. Research Scope & Assumptions
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing
- 1.7. List of Abbreviations

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot, 2024 (USD Million)
- 2.2. Segmental Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. GLOBAL ADVANCED PACKAGING MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Penetration & Growth Prospect Mapping
- 3.3. Industry Value Chain Analysis
 - 3.3.1. Raw Packaging Type Trends
- 3.4. Technology Trends
- 3.5. Regulatory Framework
- 3.6. Market Dynamics
 - 3.6.1. Market Driver Analysis
 - 3.6.2. Market Restraint Analysis
 - 3.6.3. Market Opportunity Analysis
 - 3.6.4. Market Challenge Analysis

3.7. Business Environment Analysis

3.7.1. Porter's Five Forces Analysis

3.7.2. PESTEL Analysis

CHAPTER 4. GLOBAL ADVANCED PACKAGING MARKET: PACKAGING TYPE ESTIMATES & TREND ANALYSIS

4.1. Key Takeaways

4.2. Packaging Type Movement Analysis & Market Share, 2024 & 2030

4.2.1. Flip-Chip

4.2.1.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.2.2. Fan-Out WLP

4.2.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.2.3. Embedded-Die

4.2.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.2.4. Fan-In WLP

4.2.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.2.5. 2.5D/3D

4.2.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.2.6. Others

4.2.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

CHAPTER 5. GLOBAL ADVANCED PACKAGING MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

5.1. Key Takeaways

5.2. Application Movement Analysis & Market Share, 2024 & 2030

5.2.1. Consumer Electronics

5.2.1.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

5.2.2. Automotive

5.2.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

5.2.3. Industrial

5.2.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

5.2.4. Healthcare

5.2.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

5.2.5. Aerospace & Defense

5.2.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

5.2.6. Others

5.2.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

CHAPTER 6. GLOBAL ADVANCED PACKAGING MARKET: REGION ESTIMATES & TREND ANALYSIS

6.1. Key Takeaways

6.2. Regional Movement Analysis & Market Share, 2024 & 2030

6.3. North America

6.3.1. North America Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.3.2. U.S.

6.3.2.1. U.S. Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.3.3. Canada

6.3.3.1. Canada Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.3.4. Mexico

6.3.4.1. Mexico Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4. Europe

6.4.1. Europe Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.2. Germany

6.4.2.1. Germany Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.3. UK

6.4.3.1. UK Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.4. France

6.4.4.1. France Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.5. Italy

6.4.5.1. Italy Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.6. Spain

6.4.6.1. Spain Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.5. Asia Pacific

6.5.1. Asia Pacific Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.5.2. China

6.5.2.1. China Advanced Packaging Market Estimates & Forecasts, 2018 - 2030
(USD Million)

6.5.3. India

6.5.3.1. India Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.5.4. Japan

6.5.4.1. Japan Advanced Packaging Market Estimates & Forecasts, 2018 - 2030
(USD Million)

6.5.5. Australia

6.5.5.1. Australia Advanced Packaging Market Estimates & Forecasts, 2018 - 2030
(USD Million)

6.5.6. South Korea

6.5.6.1. South Korea Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.6. Central & South America

6.6.1. Central & South America Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.6.2. Brazil

6.6.2.1. Brazil Advanced Packaging Market Estimates & Forecasts, 2018 - 2030
(USD Million)

6.6.3. Argentina

6.6.3.1. Argentina Advanced Packaging Market Estimates & Forecasts, 2018 - 2030
(USD Million)

6.7. Middle East & Africa

6.7.1. Middle East & Africa Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.7.2. Saudi Arabia

6.7.2.1. Saudi Arabia Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.7.3. UAE

6.7.3.1. UAE Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.7.4. South Africa

6.7.4.1. South Africa Advanced Packaging Market Estimates & Forecasts, 2018 - 2030 (USD Million)

CHAPTER 7. COMPETITIVE LANDSCAPE

- 7.1. Key Global Players & Recent Developments & Their Impact on the Industry
- 7.2. Company/Competition Categorization
- 7.3. Vendor Landscape
 - 7.3.1. List of Raw Packaging Type Suppliers and Key Value Chain Partners
 - 7.3.2. List of Potential Customers
- 7.4. Company Market Position Analysis
- 7.5. Company Heat Map Analysis
- 7.6. Company Dashboard Analysis
- 7.7. Strategy Mapping
 - 7.7.1. Expansions
 - 7.7.2. Mergers & Acquisitions
 - 7.7.3. Collaborations/Partnerships/Agreements
 - 7.7.4. New Product Launches
 - 7.7.5. Others

CHAPTER 8. COMPANY LISTING (OVERVIEW, FINANCIAL PERFORMANCE, PRODUCTS OVERVIEW)

- 8.1. Amkor Technology Inc.
 - 8.1.1. Company Overview
 - 8.1.2. Financial Performance
 - 8.1.3. Product Benchmarking
- 8.2. Advanced Semiconductor Engineering (ASE)
- 8.3. Taiwan Semiconductor Manufacturing Company (TSMC)
- 8.4. Intel
- 8.5. Samsung Electronics
- 8.6. JCET Group
- 8.7. ASMPT SMT Solutions
- 8.8. IPC International, Inc.
- 8.9. SEMICON
- 8.10. Yole Group
- 8.11. Prodrive Technologies B.V.

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