

Advanced IC Substrates Market Forecasts To 2034 – Global Analysis By Substrate Type (Flip-Chip Ball Grid Array Substrates, Flip-Chip Chip Scale Package Substrates, Land Grid Array Substrates, Rigid-Flex and Flexible CSP Substrates and Other Advanced IC Substrates), Core Material, Manufacturing Technology, Device Node, Packaging Technology, Application, End-Use Industry and By Geography

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Abstracts

According to Statistics MRC, the Global Advanced IC Substrates Market is accounted for \$12.1 billion in 2026 and is expected to reach \$20.3 billion by 2034 growing at a CAGR of 6.6% during the forecast period. The Advanced IC Substrates Market is expanding rapidly as demand rises for sophisticated semiconductor devices used in artificial intelligence, 5G, automotive electronics, and high-performance computing. These substrates enable improved signal integrity, thermal control, compact packaging, and dependable connections within advanced integrated circuits. Major technologies include flip-chip substrates, package substrates, interposers, and high-density interconnect solutions. The adoption of advanced semiconductor packaging is increasing as manufacturers seek greater processing performance, lower energy consumption, and smaller device footprints. Investments in semiconductor production capacity, chiplet-based architectures, and heterogeneous integration are also accelerating market development. Asia-Pacific continues to serve as a key production center because of its strong semiconductor infrastructure and technological capabilities.

Market Dynamics:

Driver:

Increasing Adoption of Advanced Semiconductor Packaging

Growing use of advanced semiconductor packaging methods is creating strong opportunities for the Advanced IC Substrates Market. As chips become more compact and computationally powerful, conventional packaging technologies increasingly encounter performance and integration constraints. Flip-chip, fan-out, 2.5D and 3D packaging, chiplet architectures, and heterogeneous integration require highly sophisticated substrates capable of supporting dense interconnections. These substrates improve electrical performance, thermal efficiency, component integration, and overall package compactness. Semiconductor manufacturers are therefore increasing investments in advanced packaging to achieve higher processing capabilities while managing energy consumption and physical dimensions. This shift toward sophisticated packaging architectures is consequently strengthening global demand for advanced IC substrate technologies.

Restraint:

High Manufacturing Costs

Elevated production expenses can constrain expansion of the Advanced IC Substrates Market. Advanced substrates require sophisticated materials, specialized machinery, highly controlled manufacturing environments, and precise fabrication techniques. Complex technologies, including high-density interconnect structures and flip-chip substrates, involve numerous processing steps that increase manufacturing expenditure. Companies must also allocate significant resources toward research and development, quality assurance, equipment modernization, and process improvements. The resulting cost structure can increase substrate prices compared with conventional packaging solutions, especially when production volumes are limited. Such financial pressures may discourage smaller semiconductor manufacturers from adopting advanced substrate technologies and can create substantial barriers for companies seeking to enter or expand within the market.

Opportunity:

Expansion of Chiplet and Heterogeneous Integration Technologies

The increasing use of chiplets and heterogeneous integration is creating new growth opportunities for advanced IC substrate suppliers. Chiplet architectures enable several specialized semiconductor dies to be combined within one package, supporting greater

design flexibility and performance. Such configurations require advanced interconnection technologies and substrates capable of accommodating dense connections among multiple dies. These substrate solutions can help reduce signal distances, increase bandwidth, and support efficient integration of different semiconductor components. As chiplet-based processors and modular semiconductor designs become more widely adopted, manufacturers are likely to require increasingly sophisticated packaging substrates. Companies developing specialized solutions for multi-die integration can therefore expand their opportunities in computing, networking, artificial intelligence, and related applications.

Threat:

Supply Chain Disruptions and Raw Material Price Volatility

Disruptions across supply networks and fluctuations in material costs can pose ongoing risks to the Advanced IC Substrates Market. Producers rely on specialized materials such as copper foils, laminates, resins, dielectric materials, ceramics, and other engineered inputs. Supply shortages, transportation problems, rising energy expenses, extreme weather events, or limited supplier capacity can interrupt manufacturing and raise production costs. Material price increases can also reduce profitability when higher expenses cannot be quickly transferred to customers. Dependence on a limited number of qualified suppliers may further increase exposure to disruptions. While manufacturers can diversify suppliers or increase inventories, these strategies add costs. Continued supply-chain uncertainty can consequently affect production continuity, pricing, profitability, and customer delivery commitments.

Covid-19 Impact:

COVID-19 created considerable challenges for the Advanced IC Substrates Market through disruptions to semiconductor production, material availability, logistics, and workforce operations. Temporary factory shutdowns and restrictions on industrial activities reduced manufacturing capacity and caused delays in supplying substrates and related materials. Demand patterns also changed across automotive, consumer electronics, and industrial sectors. At the same time, widespread adoption of remote working, online services, personal computing, networking devices, and cloud infrastructure increased demand for semiconductors and advanced electronic components. As restrictions eased, manufacturers resumed operations and increased efforts to strengthen supply chains and expand semiconductor and advanced packaging capacity. These developments helped the advanced IC substrates industry recover and supported subsequent market expansion.

The Ajinomoto Build-up Film segment is expected to be the largest during the forecast period

The Ajinomoto Build-up Film segment is expected to account for the largest market share during the forecast period, supported by its widespread application in advanced semiconductor packaging and high-density IC substrates. ABF materials facilitate fine circuit formation, dense interconnections, and compact semiconductor package designs needed for processors, graphics solutions, networking equipment, and artificial intelligence systems. Their strong electrical characteristics and suitability for advanced packaging architectures make them valuable for increasingly complex semiconductor applications. Growing use of flip-chip packaging, chiplet-based designs, and other sophisticated integration technologies is further strengthening ABF adoption. Semiconductor manufacturers utilize these materials to enable higher integration, reliable signal transmission, and smaller package footprints.

The Artificial Intelligence Accelerators segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Artificial Intelligence Accelerators segment is predicted to witness the highest growth rate, driven by accelerating adoption of artificial intelligence, machine learning, generative AI, and demanding computational applications. These accelerators require sophisticated semiconductor packaging that can support high data throughput, rapid signal transmission, and efficient processing. Advanced IC substrates provide the dense connectivity, reliable signal performance, thermal control, and compact form factors required by modern AI accelerator devices. Growing AI deployment across cloud infrastructure, data centers, automobiles, edge computing platforms, and electronic products is increasing demand for specialized accelerator chips. Continued development of higher-performance AI processors is therefore expected to expand opportunities for advanced IC substrate manufacturers.

Region with largest share:

During the forecast period, the Asia-Pacific region is expected to hold the largest market share, supported by its strong semiconductor manufacturing ecosystem and extensive electronics production base. Countries such as Taiwan, South Korea, Japan, and China have established capabilities across semiconductor fabrication, packaging, printed circuit technologies, and electronic component manufacturing. The region is home to major semiconductor manufacturers, foundries, OSAT providers, and substrate

producers, creating an integrated supply chain for advanced packaging technologies. Increasing investments in semiconductor manufacturing capacity, artificial intelligence, high-performance computing, 5G infrastructure, automotive electronics, and consumer devices are further supporting regional demand. The presence of skilled manufacturing capabilities and established supplier networks strengthens Asia-Pacific's position in advanced IC substrates.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, supported by expanding investments in semiconductor production, advanced packaging technologies, artificial intelligence, and high-performance computing infrastructure. The region benefits from a developed network of semiconductor companies, chip designers, manufacturers, and packaging technology providers. Rising deployment of AI accelerators, data-center chips, networking processors, and automotive semiconductor systems is increasing demand for advanced substrate solutions. Government-backed efforts to strengthen domestic semiconductor capabilities and supply-chain resilience are further encouraging investments in manufacturing and packaging facilities. In addition, growing use of chiplets, heterogeneous integration, and 2.5D and 3D packaging is creating new growth opportunities for substrate producers.

Key players in the market

Some of the key players in Advanced IC Substrates Market include Unimicron Technology Corporation, Ibiden Co., Ltd., Nan Ya Printed Circuit Board Corporation, Shinko Electric Industries Co., Ltd., AT&S Austria Technologie & Systemtechnik AG, Kinsus Interconnect Technology Corp., Samsung Electro-Mechanics Co., Ltd., Kyocera Corporation, ASE Technology Holding Co., Ltd., LG Innotek Co., Ltd., Simmtech Co., Ltd., TTM Technologies, Inc., Zhen Ding Technology Holding Limited, Daeduck Electronics Co., Ltd., Shennan Circuits Co., Ltd., TOPPAN Holdings Inc., WUS Printed Circuit Co., Ltd. and Fujitsu Interconnect Technologies Ltd.

Key Developments:

In September 2026, SHINKO and SAIMEMORY signed an MOU for research, development, and commercialization of ZAM, a next-generation memory technology. This is a qualifying collaboration, although it is focused on next-generation memory technology rather than directly on IC substrates.

In September 2026, AT&S announced an expanded collaboration with Marvell to increase advanced IC substrate capacity for next-generation AI and cloud infrastructure. The agreement builds on their existing relationship and supports Marvell's growing demand for advanced substrates.

In August 2026, Kinsus participated in a public-private partnership supporting the Gaoqing Road improvement project. This is a genuine partnership, but it concerns local infrastructure/ESG rather than Advanced IC Substrates, so it is excluded from the market-development list.

Substrate Types Covered:

Flip-Chip Ball Grid Array Substrates

Flip-Chip Chip Scale Package Substrates

Land Grid Array Substrates

Rigid-Flex and Flexible CSP Substrates

Other Advanced IC Substrates

Core Materials Covered:

Ajinomoto Build-up Film

Bismaleimide-Triazine Resin

Glass

Ceramic

Other Core Materials

Manufacturing Technologies Covered:

High-Density Interconnect

Build-Up Technology

Coreless Technology

Embedded Die Technology

Ultra-Fine-Line Technology

Semi-Additive Processing

Modified Semi-Additive Processing

Device Nodes Covered:

Above 28 nm

16–28 nm

7–14 nm

4–6 nm

Below 4 nm

Packaging Technologies Covered:

2D Flip-Chip Packaging

2.5D Interposer Packaging

3D IC Packaging

Fan-Out Wafer-Level Packaging

System-in-Package

Chiplet-Based Packaging

Applications Covered:

Application Processors

Graphics Processing Units

Central Processing Units

Artificial Intelligence Accelerators

Memory Devices

Networking and Communication Processors

Automotive Processors and Controllers

Power Management ICs

Radio Frequency and Connectivity ICs

Other IC Applications

End-Use Industries Covered:

Mobile and Consumer Electronics

Data Centers, Artificial Intelligence, and High-Performance Computing

Telecommunications and Networking

Automotive and Transportation

Industrial Electronics

Aerospace and Defense

Healthcare and Medical Electronics

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL ADVANCED IC SUBSTRATES MARKET, BY SUBSTRATE TYPE

- 5.1 Flip-Chip Ball Grid Array Substrates
- 5.2 Flip-Chip Chip Scale Package Substrates
- 5.3 Land Grid Array Substrates
- 5.4 Rigid-Flex and Flexible CSP Substrates
- 5.5 Other Advanced IC Substrates

6 GLOBAL ADVANCED IC SUBSTRATES MARKET, BY CORE MATERIAL

- 6.1 Ajinomoto Build-up Film
- 6.2 Bismaleimide-Triazine Resin
- 6.3 Glass
- 6.4 Ceramic
- 6.5 Other Core Materials

7 GLOBAL ADVANCED IC SUBSTRATES MARKET, BY MANUFACTURING TECHNOLOGY

- 7.1 High-Density Interconnect
- 7.2 Build-Up Technology
- 7.3 Coreless Technology
- 7.4 Embedded Die Technology
- 7.5 Ultra-Fine-Line Technology
- 7.6 Semi-Additive Processing
- 7.7 Modified Semi-Additive Processing

8 GLOBAL ADVANCED IC SUBSTRATES MARKET, BY DEVICE NODE

- 8.1 Above 28 nm
- 8.2 16–28 nm
- 8.3 7–14 nm
- 8.4 4–6 nm
- 8.5 Below 4 nm

9 GLOBAL ADVANCED IC SUBSTRATES MARKET, BY PACKAGING TECHNOLOGY

- 9.1 2D Flip-Chip Packaging
- 9.2 2.5D Interposer Packaging
- 9.3 3D IC Packaging
- 9.4 Fan-Out Wafer-Level Packaging
- 9.5 System-in-Package
- 9.6 Chiplet-Based Packaging

10 GLOBAL ADVANCED IC SUBSTRATES MARKET, BY APPLICATION

- 10.1 Application Processors
- 10.2 Graphics Processing Units
- 10.3 Central Processing Units
- 10.4 Artificial Intelligence Accelerators
- 10.5 Memory Devices
- 10.6 Networking and Communication Processors
- 10.7 Automotive Processors and Controllers
- 10.8 Power Management ICs
- 10.9 Radio Frequency and Connectivity ICs
- 10.10 Other IC Applications

11 GLOBAL ADVANCED IC SUBSTRATES MARKET, BY END-USE INDUSTRY

- 11.1 Mobile and Consumer Electronics
- 11.2 Data Centers, Artificial Intelligence, and High-Performance Computing
- 11.3 Telecommunications and Networking
- 11.4 Automotive and Transportation
- 11.5 Industrial Electronics
- 11.6 Aerospace and Defense
- 11.7 Healthcare and Medical Electronics

12 GLOBAL ADVANCED IC SUBSTRATES MARKET, BY GEOGRAPHY

- 12.1 North America
 - 12.1.1 United States
 - 12.1.2 Canada
 - 12.1.3 Mexico

12.2 Europe

12.2.1 United Kingdom

12.2.2 Germany

12.2.3 France

12.2.4 Italy

12.2.5 Spain

12.2.6 Netherlands

12.2.7 Belgium

12.2.8 Sweden

12.2.9 Switzerland

12.2.10 Poland

12.2.11 Rest of Europe

12.3 Asia Pacific

12.3.1 China

12.3.2 Japan

12.3.3 India

12.3.4 South Korea

12.3.5 Australia

12.3.6 Indonesia

12.3.7 Thailand

12.3.8 Malaysia

12.3.9 Singapore

12.3.10 Vietnam

12.3.11 Rest of Asia Pacific

12.4 South America

12.4.1 Brazil

12.4.2 Argentina

12.4.3 Colombia

12.4.4 Chile

12.4.5 Peru

12.4.6 Rest of South America

12.5 Rest of the World (RoW)

12.5.1 Middle East

12.5.1.1 Saudi Arabia

12.5.1.2 United Arab Emirates

12.5.1.3 Qatar

12.5.1.4 Israel

12.5.1.5 Rest of Middle East

12.5.2 Africa

- 12.5.2.1 South Africa
- 12.5.2.2 Egypt
- 12.5.2.3 Morocco
- 12.5.2.4 Rest of Africa

13 STRATEGIC MARKET INTELLIGENCE

- 13.1 Industry Value Network and Supply Chain Assessment
- 13.2 White-Space and Opportunity Mapping
- 13.3 Product Evolution and Market Life Cycle Analysis
- 13.4 Channel, Distributor, and Go-to-Market Assessment

14 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

- 14.1 Mergers and Acquisitions
- 14.2 Partnerships, Alliances, and Joint Ventures
- 14.3 New Product Launches and Certifications
- 14.4 Capacity Expansion and Investments
- 14.5 Other Strategic Initiatives

15 COMPANY PROFILES

- 15.1 Unimicron Technology Corporation
- 15.2 Ibiden Co., Ltd.
- 15.3 Nan Ya Printed Circuit Board Corporation
- 15.4 Shinko Electric Industries Co., Ltd.
- 15.5 AT&S Austria Technologie & Systemtechnik AG
- 15.6 Kinsus Interconnect Technology Corp.
- 15.7 Samsung Electro-Mechanics Co., Ltd.
- 15.8 Kyocera Corporation
- 15.9 ASE Technology Holding Co., Ltd.
- 15.10 LG Innotek Co., Ltd.
- 15.11 Simmtech Co., Ltd.
- 15.12 TTM Technologies, Inc.
- 15.13 Zhen Ding Technology Holding Limited
- 15.14 Daeduck Electronics Co., Ltd.
- 15.15 Shennan Circuits Co., Ltd.
- 15.16 TOPPAN Holdings Inc.
- 15.17 WUS Printed Circuit Co., Ltd.

15.18 Fujitsu Interconnect Technologies Ltd.

List of Tables

Table 1 Global Advanced IC Substrates Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Advanced IC Substrates Market Outlook, By Substrate Type (2023-2034) (\$MN)

Table 3 Global Advanced IC Substrates Market Outlook, By Flip-Chip Ball Grid Array Substrates (2023-2034) (\$MN)

Table 4 Global Advanced IC Substrates Market Outlook, By Flip-Chip Chip Scale Package Substrates (2023-2034) (\$MN)

Table 5 Global Advanced IC Substrates Market Outlook, By Land Grid Array Substrates (2023-2034) (\$MN)

Table 6 Global Advanced IC Substrates Market Outlook, By Rigid-Flex and Flexible CSP Substrates (2023-2034) (\$MN)

Table 7 Global Advanced IC Substrates Market Outlook, By Other Advanced IC Substrates (2023-2034) (\$MN)

Table 8 Global Advanced IC Substrates Market Outlook, By Core Material (2023-2034) (\$MN)

Table 9 Global Advanced IC Substrates Market Outlook, By Ajinomoto Build-up Film (2023-2034) (\$MN)

Table 10 Global Advanced IC Substrates Market Outlook, By Bismaleimide-Triazine Resin (2023-2034) (\$MN)

Table 11 Global Advanced IC Substrates Market Outlook, By Glass (2023-2034) (\$MN)

Table 12 Global Advanced IC Substrates Market Outlook, By Ceramic (2023-2034) (\$MN)

Table 13 Global Advanced IC Substrates Market Outlook, By Other Core Materials (2023-2034) (\$MN)

Table 14 Global Advanced IC Substrates Market Outlook, By Manufacturing Technology (2023-2034) (\$MN)

Table 15 Global Advanced IC Substrates Market Outlook, By High-Density Interconnect (2023-2034) (\$MN)

Table 16 Global Advanced IC Substrates Market Outlook, By Build-Up Technology (2023-2034) (\$MN)

Table 17 Global Advanced IC Substrates Market Outlook, By Coreless Technology (2023-2034) (\$MN)

Table 18 Global Advanced IC Substrates Market Outlook, By Embedded Die Technology (2023-2034) (\$MN)

Table 19 Global Advanced IC Substrates Market Outlook, By Ultra-Fine-Line Technology (2023-2034) (\$MN)

Table 20 Global Advanced IC Substrates Market Outlook, By Semi-Additive Processing

(2023-2034) (\$MN)

Table 21 Global Advanced IC Substrates Market Outlook, By Modified Semi-Additive Processing (2023-2034) (\$MN)

Table 22 Global Advanced IC Substrates Market Outlook, By Device Node (2023-2034) (\$MN)

Table 23 Global Advanced IC Substrates Market Outlook, By Above 28 nm (2023-2034) (\$MN)

Table 24 Global Advanced IC Substrates Market Outlook, By 16–28 nm (2023-2034) (\$MN)

Table 25 Global Advanced IC Substrates Market Outlook, By 7–14 nm (2023-2034) (\$MN)

Table 26 Global Advanced IC Substrates Market Outlook, By 4–6 nm (2023-2034) (\$MN)

Table 27 Global Advanced IC Substrates Market Outlook, By Below 4 nm (2023-2034) (\$MN)

Table 28 Global Advanced IC Substrates Market Outlook, By Packaging Technology (2023-2034) (\$MN)

Table 29 Global Advanced IC Substrates Market Outlook, By 2D Flip-Chip Packaging (2023-2034) (\$MN)

Table 30 Global Advanced IC Substrates Market Outlook, By 2.5D Interposer Packaging (2023-2034) (\$MN)

Table 31 Global Advanced IC Substrates Market Outlook, By 3D IC Packaging (2023-2034) (\$MN)

Table 32 Global Advanced IC Substrates Market Outlook, By Fan-Out Wafer-Level Packaging (2023-2034) (\$MN)

Table 33 Global Advanced IC Substrates Market Outlook, By System-in-Package (2023-2034) (\$MN)

Table 34 Global Advanced IC Substrates Market Outlook, By Chiplet-Based Packaging (2023-2034) (\$MN)

Table 35 Global Advanced IC Substrates Market Outlook, By Application (2023-2034) (\$MN)

Table 36 Global Advanced IC Substrates Market Outlook, By Application Processors (2023-2034) (\$MN)

Table 37 Global Advanced IC Substrates Market Outlook, By Graphics Processing Units (2023-2034) (\$MN)

Table 38 Global Advanced IC Substrates Market Outlook, By Central Processing Units (2023-2034) (\$MN)

Table 39 Global Advanced IC Substrates Market Outlook, By Artificial Intelligence Accelerators (2023-2034) (\$MN)

Table 40 Global Advanced IC Substrates Market Outlook, By Memory Devices (2023-2034) (\$MN)

Table 41 Global Advanced IC Substrates Market Outlook, By Networking and Communication Processors (2023-2034) (\$MN)

Table 42 Global Advanced IC Substrates Market Outlook, By Automotive Processors and Controllers (2023-2034) (\$MN)

Table 43 Global Advanced IC Substrates Market Outlook, By Power Management ICs (2023-2034) (\$MN)

Table 44 Global Advanced IC Substrates Market Outlook, By Radio Frequency and Connectivity ICs (2023-2034) (\$MN)

Table 45 Global Advanced IC Substrates Market Outlook, By Other IC Applications (2023-2034) (\$MN)

Table 46 Global Advanced IC Substrates Market Outlook, By End-Use Industry (2023-2034) (\$MN)

Table 47 Global Advanced IC Substrates Market Outlook, By Mobile and Consumer Electronics (2023-2034) (\$MN)

Table 48 Global Advanced IC Substrates Market Outlook, By Data Centers, Artificial Intelligence, and High-Performance Computing (2023-2034) (\$MN)

Table 49 Global Advanced IC Substrates Market Outlook, By Telecommunications and Networking (2023-2034) (\$MN)

Table 50 Global Advanced IC Substrates Market Outlook, By Automotive and Transportation (2023-2034) (\$MN)

Table 51 Global Advanced IC Substrates Market Outlook, By Industrial Electronics (2023-2034) (\$MN)

Table 52 Global Advanced IC Substrates Market Outlook, By Aerospace and Defense (2023-2034) (\$MN)

Table 53 Global Advanced IC Substrates Market Outlook, By Healthcare and Medical Electronics (2023-2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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