

Global AiP (Antenna in Package) Module 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 AiP (Antenna in Package) Module market size was valued at US\$ 2286 million in 2025 and is forecast to a readjusted size of US\$ 5009 million by 2032 with a CAGR of 11.8% during review period.

An AiP module is a highly integrated packaging product designed for high frequency wireless communications. Its core concept is to integrate the antenna element together with the RF chip, power amplifier, filter, switch, transceiver, or related front end circuitry within the same package or module, thereby shortening the signal path, reducing transmission loss, crosstalk, and space consumption in millimeter wave and higher frequency bands, and improving miniaturization, thermal management, production consistency, and system implementation efficiency. These products mainly serve 5G millimeter wave smartphones, CPE, FWA terminals, small cells, O-RUs, private network equipment, satellite communication terminals, WiGig, and certain high frequency IoT scenarios. The key technology paradigm usually centers on antenna array design, beamforming, package level electromagnetic co-design, material and substrate optimization, simulation and validation, module assembly, and OTA testing. Industry delivery formats include both standardized antenna modules and phased array modules, as well as customized design, joint development, packaging manufacturing, and testing services provided by packaging houses, substrate suppliers, and mmWave solution providers. Therefore, AiP is not merely a single device, but a critical implementation approach that connects the RF front end, advanced packaging, and end systems, especially in next generation wireless connectivity scenarios that simultaneously require compact size, low loss, wide bandwidth, and directional coverage.

The industrial value of AiP modules fundamentally comes from a redefinition of integration efficiency after wireless systems move into higher frequency bands. When antennas remain discrete components, transmission loss, layout constraints, interconnect distance, crosstalk control, and thermal management in millimeter wave links all escalate rapidly, making it difficult for device and network equipment manufacturers to balance size, power consumption, bandwidth, and stability at the same time. The significance of AiP lies in the package level co-design of antennas, RF chips, and part of the front end, so that high frequency signal paths previously distributed across the PCB and module can be shortened as much as possible, while packaging materials, antenna array design, and beamforming improve overall system feasibility. Public pages from Qualcomm, Murata, ASE, Amkor, LG Innotek, PTI, Shinko, and Kyocera all indicate that AiP is no longer just a specific smartphone component, but a practical implementation framework for turning high frequency wireless capability into manufacturable hardware. Going forward, the companies that can build a closed loop across materials, simulation, packaging, assembly, and OTA testing will be in a stronger position to capture pricing power and longer product life cycles in the AiP industry.

From a commercialization perspective, the scaling path of AiP is becoming increasingly clear. Smartphones remain the most important entry point for scale because they place the toughest demands on internal space, antenna count, power efficiency, and high frequency performance, and they were the first to push millimeter wave AiP toward engineering maturity. However, the real incremental opportunity does not come only from smartphones, but from CPE, FWA, O-RUs, small cells, private networks, WiGig, and satellite communications. These applications place stronger demands on antenna arrays, high gain coverage, and higher frequency availability, and therefore rely more heavily on AiP as a technology platform that integrates antennas and front end circuitry at a high level. Siivers' infrastructure grade AiP, Hanwha's 5G mmWave total solution, Auden's and TMYTEK's small cell and O-RU solutions, and Cossat's 5G phased array packaged modules all show that AiP is expanding from consumer electronics into communications infrastructure and specialized high frequency terminals. As satellite communications, industrial wireless, and private enterprise networks continue to expand, AiP demand will gradually evolve from being driven by a single terminal category into a multi-engine structure spanning terminals, infrastructure, and private network equipment.

In terms of industrial structure and regional distribution, AiP is a typical cross-segment industry with high barriers to entry. It requires upstream capabilities in RF, substrates, materials, and advanced packaging, while also demanding that midstream players

master array antenna design, electromagnetic simulation, module assembly, and high frequency testing. As a result, current capacity and solution capabilities are clearly concentrated in East Asia, especially Taiwan, Japan, South Korea, and mainland China, while being complemented by chip and high frequency solution providers in the United States and Europe. On the demand side, adoption is more concentrated in regions that have already promoted millimeter wave spectrum release, 5G commercialization, FWA deployment, and high frequency private network development. The FCC in the United States continues to advance millimeter wave spectrum availability, and Europe continues to coordinate and expand key bands such as 26 GHz. This means that as long as millimeter wave network deployment and related terminal applications continue to move forward, AiP will continue to benefit. More optimistically, as 5G extends toward B5G and integrated satellite communications, AiP will not remain merely a branch of packaging technology upgrades, but may evolve into a common module platform for high frequency wireless terminals and infrastructure.

This report is a detailed and comprehensive analysis for global AiP (Antenna in Package) Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 AiP (Antenna in Package) Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AiP (Antenna in Package) Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AiP (Antenna in Package) Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AiP (Antenna in Package) Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 AiP (Antenna in Package) Module

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 AiP (Antenna in Package) Module 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 Qualcomm Technologies, Inc., Murata Manufacturing Co., Ltd., Insight SiP SAS, Siivers Semiconductors AB, Hanwha NxMD Co., Ltd., Auden Techno Corp., TMY Technology, Inc., Chengdu Kesai Technology Co., Ltd., etc.

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

Market Segmentation

AiP (Antenna in Package) Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

LTCC

HDI

FOWLP

Market segment by Integration Level

Pure Antenna Packaging

Antenna Plus RF Chip Integration

Other

Market segment by Delivery Model

Standard Modules

Custom Modules And Solutions

Other

Market segment by Application

Smartphones And Mobile Terminals

Fixed Wireless Access Terminals

Base Station-Side Equipment

Other Specialized High-Frequency Terminals

Major players covered

Qualcomm Technologies, Inc.

Murata Manufacturing Co., Ltd.

Insight SiP SAS

Sivers Semiconductors AB

Hanwha NxMD Co., Ltd.

Auden Techno Corp.

TMY Technology, Inc.

Chengdu Kesai Technology 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 AiP (Antenna in Package) Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AiP (Antenna in Package) Module, with price, sales quantity, revenue, and global market share of AiP (Antenna in Package) Module from 2021 to 2026.

Chapter 3, the AiP (Antenna in Package) Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AiP (Antenna in Package) Module 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 Type and by Application, with sales market share and growth rate by Type, 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 AiP (Antenna in Package) Module market forecast, by regions, by Type, 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 AiP (Antenna in Package) Module.

Chapter 14 and 15, to describe AiP (Antenna in Package) Module sales channel, distributors, customers, research findings and conclusion.

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