

Global Cellular Modem Chipset 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 Cellular Modem Chipset market size was valued at US\$ 6519 million in 2025 and is forecast to a readjusted size of US\$ 9240 million by 2032 with a CAGR of 5.1% during review period.

Cellular Modem Chipset refers to an integrated semiconductor component that enables wireless communication between a device and cellular networks (such as 2G, 3G, 4G LTE, 5G), handling signal processing, encoding/decoding, and protocol management to support voice, data, and IoT connectivity in smartphones, vehicles, industrial systems, and connected devices.

The cellular modem chipset industry chain begins upstream with semiconductor materials, silicon wafers, photolithography equipment, EDA software, and IP core providers, followed by midstream semiconductor manufacturers designing and fabricating baseband processors, RF transceivers, and integrated modem SoCs, and extends downstream to device OEMs such as smartphone makers, automotive manufacturers, IoT device producers, and networking equipment companies that integrate modem chipsets into end products, with telecom operators providing network infrastructure and connectivity services, and ecosystem partners enabling firmware, protocol stacks, and certification processes, all driven by global demand for high-speed mobile connectivity and IoT expansion.

Globally, ongoing and planned projects include development of advanced 5G-Advanced and early 6G modem chipsets by leading semiconductor companies, expansion of fabrication capacity in Taiwan, South Korea, and the United States for sub-5nm process nodes, automotive-grade modem chipset integration for connected and autonomous

vehicles, industrial IoT connectivity chip programs in Europe and China, deployment of satellite-to-cellular hybrid modem systems, and collaboration between chipset designers and telecom operators to enhance network compatibility, all aimed at improving data speed, reducing power consumption, increasing global coverage, and enabling next-generation intelligent connectivity ecosystems.

2025 Global Market sales Volume: 352 million Units. Average Global Market Price: USD 18 per Unit. Market Average Gross Profit Margin: 25%.

The cellular modem chipset market is experiencing rapid expansion driven by the global rollout of 5G networks, increasing smartphone penetration, and the rise of connected devices across automotive, industrial, and consumer electronics sectors. The market has evolved from basic 2G/3G connectivity solutions to highly integrated 5G-capable system-on-chip architectures that support ultra-fast data transmission, low latency communication, and massive device connectivity.

Regionally, Asia-Pacific dominates due to strong semiconductor manufacturing ecosystems in countries such as Taiwan, South Korea, and China, along with high smartphone production volumes. North America leads in technological innovation and advanced chipset design, particularly in high-performance and automotive applications. Europe shows steady growth driven by industrial IoT and automotive connectivity demand.

Market opportunities are strongly linked to the expansion of 5G-Advanced networks, emerging 6G research, and the rapid adoption of connected vehicles and IoT ecosystems. However, risks include high R&D costs, geopolitical supply chain constraints, and dependence on advanced semiconductor fabrication capacity concentrated in a few regions.

Key market trends include increasing integration of modem chipsets with application processors, migration toward sub-5nm process technologies, and growing demand for low-power, high-efficiency designs.

Competitive characteristics are highly concentrated, with a few dominant global players controlling advanced modem technology, while competition focuses on performance leadership, power efficiency, global network compatibility, and intellectual property strength, making innovation and scale critical success factors in this rapidly evolving semiconductor segment.

This report is a detailed and comprehensive analysis for global Cellular Modem Chipset 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 Cellular Modem Chipset market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Cellular Modem Chipset market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Cellular Modem Chipset market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Cellular Modem Chipset market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 Cellular Modem Chipset

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 Cellular Modem Chipset 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 ASR Microelectronics, Intel/Apple,

MediaTek/Airoha, Qualcomm, UNISOC, Semtech, Sequans Communications, Sony Semiconductor, Samsung, U-Blox, etc.

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

Market Segmentation

Cellular Modem Chipset 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

- 4G LTE Modem Chipset

- 5G NR Modem Chipset

- Multi Mode (2G/3G/4G) Chipset

Market segment by Power Consumption Class

- Ultra Low Power Chipset

- Low Power Chipset

- Standard Power Chipset

Market segment by Frequency Band Support

- Single Band Chipset

- Dual Band Chipset

- Multi Band Chipset

Global Band (World Mode) Chipset

Market segment by Application

Smartphones and Mobile Device

Automotive Connectivity System

Industrial IoT Device

Smart Home Device

Wearable Device

Others

Major players covered

ASR Microelectronics

Intel/Apple

MediaTek/Airoha

Qualcomm

UNISOC

Semtech

Sequans Communications

Sony Semiconductor

Samsung

U-Blox

Gemalto

Telit

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 Cellular Modem Chipset product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cellular Modem Chipset, with price, sales quantity, revenue, and global market share of Cellular Modem Chipset from 2021 to 2026.

Chapter 3, the Cellular Modem Chipset competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cellular Modem Chipset 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 Cellular Modem Chipset 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 Cellular Modem Chipset.

Chapter 14 and 15, to describe Cellular Modem Chipset sales channel, distributors, customers, research findings and conclusion.

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