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Multimode Chipset Market Forecasts to 2032 – Global Analysis By Type (Integrated Chipset and Non-Integrated Chipset), Communication Standard (2G (Second Generation), 3G (Third Generation), 4G (Fourth Generation) and 5G (Fifth Generation)), Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Multimode Chipset Market is accounted for $8.82 billion in 2025 and is expected to reach $23.46 billion by 2032 growing at a CAGR of 15.0% during the forecast period. A multimode chipset is an integrated circuit that allows a single device to support several network modes and communication standards. Commonly found in smartphones, tablets, and Internet of Things devices, these chipsets provide smooth connectivity across a range of wireless technologies, including 2G, 3G, 4G LTE, and 5G, as well as Wi-Fi and Bluetooth in certain situations. Moreover, multimode chipsets improve device performance by combining several modes into a single chip, eliminating the need for multiple specialized processors and reducing power consumption and space consumption.

According to the GSMA Intelligence platform, which provides data on every mobile operator in every country worldwide, covering 1,250 mobile operators, 80 operator groups, and 4,600 networks, the global mobile ecosystem is experiencing significant growth.

Market Dynamics:

Driver:

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Increasing use of 5G technology

The adoption of multimode chipsets, which can support a combination of 2G, 3G, 4G LTE, and 5G standards within a single platform, is being pushed by the global rollout of 5G networks. This compatibility guarantees uninterrupted service in regions with varying signal strengths or where 5G has not yet been implemented. Additionally, multimode chipsets facilitate smooth network generation transitions, which are critical for providing reliable high-speed data, extremely low latency, and extensive connectivity for cutting-edge applications such as immersive media, industrial automation, and driverless cars.

Restraint:

High integration and development costs

The integration of multiple radio technologies into a single architecture necessitates a significant investment in research and development due to the complexity of multimode chipsets. Production costs are greatly increased when designing chipsets that can control power efficiency, thermal stability, and spectrum compatibility across various modes. Furthermore, these increased expenses result in higher device prices for manufacturers, which may prevent adoption, especially in markets with price sensitivity or in product categories that are entry-level.

Opportunity:

Increasing multi connectivity demand in IoT ecosystems

Smart cities, connected automobiles, smart homes, and industrial automation (IIoT) are all examples of how the Internet of Things (IoT) is developing beyond simple sensors. These settings need reliable, constant connectivity that works with a variety of network configurations. Multimode chipsets give IoT devices the option to connect via NB-IoT, LTE-M, 4G, or even 5G, based on the needs of the use case, power limitations, or signal strength. Moreover, this flexibility creates new opportunities for growth, particularly in industries like logistics, healthcare, agriculture, and energy.

Threat:

Increasing market saturation and competition

A small number of powerful companies, including Qualcomm, MediaTek, and Samsung,

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control a large portion of the fiercely competitive multimode chipset market. These companies have established OEM relationships and significant R&D budgets. Price wars and feature commoditization can reduce profit margins as more companies enter the market or try to innovate in the same area. This is particularly true for emerging and mid-tier vendors, who might find it difficult to match incumbents' cost-effectiveness or performance. Additionally, saturation reduces greenfield opportunities, which makes it more difficult for new competitors to succeed.

Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the multimode chipset market. Initially, production delays and a decrease in chipset availability were caused by global supply chain disruptions, factory closures, and semiconductor shortages, which had an impact on the delivery schedules for smart phones, Internet of Things devices, and automotive electronics. The need for high-performance, multimode communication chipsets, however, increased due to the rise in demand for remote connectivity tools, such as laptops, smart phones, and connected medical devices. Furthermore, the pandemic's acceleration of digital transformation across industries highlighted the value of robust, multi-network connectivity.

The 4G (fourth generation) segment is expected to be the largest during the forecast period

The 4G (fourth generation) segment is expected to account for the largest market share during the forecast period. The widespread device compatibility, the global reach of 4G networks, and the ongoing demand for high-speed mobile broadband services are the reasons for this dominance. Even though 5G is quickly gaining traction, 4G is still the mainstay of mobile connectivity in both developed and developing nations. Its incorporation into IoT devices, automobile systems, tablets, and smart phones increases demand for it. In order to guarantee backward compatibility, multimode chipsets frequently incorporate 4G supports, which further solidify their market importance in the face of changing wireless standards.

The automotive segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the automotive segment is predicted to witness the highest growth rate. The introduction of cutting-edge technologies like connected cars, autonomous driving systems, and improved infotainment systems is drastically

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changing the automotive industry. Multimode chipsets are essential for facilitating smooth communication across a range of network standards, such as 4G, 5G, and LTE, and guaranteeing continuous connectivity for vital applications such as Vehicle-to-Everything (V2X) communication. Moreover, the increasing focus on modern vehicles' safety, navigation, and real-time data processing is contributing to this demand.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share. Strong telecommunications infrastructure, large investments in 5G technology, and the presence of top semiconductor companies like Qualcomm, Intel, and Broadcom are the main factors driving this dominance. A significant contributor is the United States, whose market value is predicted to reach US$6.5 billion by 2032. Additionally, North America is positioned as the market leader for multimode chipsets due to these factors combined.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. The swift adoption of 5G technology and the rising demand for cutting-edge consumer electronics in nations like China, India, Japan, and South Korea are the main drivers of this strong growth. The region is anticipated to be led by China in particular. The demand for multimode chipsets has increased dramatically in these markets due in large part to the proliferation of smart phones, IoT devices, and smart home technologies. Furthermore, the market's growth in the Asia-Pacific area is also supported by significant investments in 5G infrastructure and technological developments.

Key players in the market

Some of the key players in Multimode Chipset Market include Huawei Technologies Co. Ltd., Intel Corporation, Altair Semiconductor, Inc., Marvell Technology Group Ltd., Hisilicon Technologies, NXP Semiconductors N.V., GCT Semiconductor Inc., MediaTek Inc., Fujitsu Limited, Qualcomm Technologies Inc., Broadcom Corporation, Samsung Electronics Co., Ltd., Nokia Corporation, Renesas Electronics Corporation and STMicroelectronics N.V.

Key Developments:

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In April 2025, Intel Corporation announced that it has entered into a definitive agreement to sell 51% of its Altera business to Silver Lake, a global leader in technology investing. The transaction, which values Altera at $8.75 billion, establishes Altera’s operational independence and makes it the largest pure-play FPGA semiconductor solutions company.

In March 2025, Huawei and the Netherlands' Sona signed a strategic cooperation agreement. According to the agreement, the two parties will cooperate closely in the secure access service edge (SASE) field to jointly develop products, build a more intelligent network security system for enterprises worldwide, and share the SASE market. Sonia Harjani, founder of Sona, and Vincent Liu from President of Global Enterprise Network Marketing and Sales Dept, Huawei, attended the signing ceremony.

In July 2024, Altair announced it has entered into a definitive agreement to acquire all of the outstanding capital stock of Metrics Design Automation Inc. (Metrics), a Canadian company with a game changing simulation as a service (SaaS) business model for semiconductor electronic functional simulation and design verification. Closing of the transaction is subject to customary conditions.

Types Covered:

- Integrated Chipset
- Non-Integrated Chipset

Communication Standards Covered:

- 2G (Second Generation)
- 3G (Third Generation)
- 4G (Fourth Generation)
- 5G (Fifth Generation)

Applications Covered:

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- Consumer Electronics
- Automotive
- Industrial
- Healthcare
- Internet of Things (IoT)
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific

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- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa
- Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments

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- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- 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

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