

# **Global 5G Chipset Market Size Study, by Type (Modems, RFICs, Others), by Operating Frequency (Sub-6 GHz, 24-39 GHz, Above 39 GHz), by Processing Node Type (7 nm, 10 nm, Others), by Deployment Type (Telecom Base Station Equipment, Smartphones/Tablets, Connected Vehicles, Connected Devices, Broadband Access Gateway Devices, Others), by Vertical (Manufacturing, Energy & Utilities, Media & Entertainment, IT & Telecom, Transportation & Logistics, Healthcare, Others) and Regional Forecasts 2022-2032**

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## **Abstracts**

The global 5G chipset market is valued approximately at USD 39.32 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 20.7% over the forecast period 2024-2032. The advent of 5G chipsets represents a transformative leap in wireless technology, designed to support the burgeoning ecosystem of internet-connected devices and the expansive infrastructure demands of 5G networks. This new generation of chipsets facilitates ultra-fast broadband wireless operational frequencies, extending beyond mobile internet to encompass IoT and essential communications segments, effectively creating a perceived globally interconnected network. This technology underpins a wide array of applications from enhanced mobile broadband to massive machine-type communications and ultra-reliable low-latency communications, paving the way for innovations in various industries.

The market's growth trajectory is propelled by the proliferation of machine-to-machine (M2M) and IoT connections, alongside the escalating demand for high-speed internet

and extensive network coverage. The surge in mobile broadband operational frequency further fuels this expansion. Industry players are continuously innovating, launching advanced 5G chipset solutions tailored for diverse applications. A notable example is Sequans Communications S.A.'s Taurus 5G NR chipset platform, introduced in May 2023, which is engineered to support 5G broadband IoT devices cost-effectively. These advancements bolster the market by meeting the demands of enterprise and private networks, residential fixed wireless access, mobile computing, and other high-end IoT applications, including smart cities and smart buildings. Moreover, the rising demand for 5G chipsets in vehicle-to-everything (V2X) communications is significantly contributing to market expansion. 5G technology enables real-time, low-latency communication between vehicles and their environment, enhancing connected vehicle applications by fostering a cooperative, intelligent transport system (C-ITS). This advancement reduces congestion, prevents accidents, and optimizes traffic flow, while also boosting the autonomous capabilities of vehicles through faster information processing.

However, the market faces challenges such as the high initial investment and deployment costs associated with 5G chipsets. These costs impact the overall manufacturing expenses of 5G-enabled devices, including smartphones, potentially leading to higher average selling prices. Nevertheless, anticipated price reductions due to competitive dynamics among key market players are expected to alleviate these cost barriers in the near future.

The regional analysis highlights North America as a significant growth area from 2024 to 2032, driven by the deployment of 5G networks and the subsequent rise of technologies such as autonomous vehicles and augmented/virtual reality. Asia Pacific, which dominated the market with a 41.20% share in 2023, continues to benefit from rapid advancements in high-speed connectivity and the adoption of IoT, AI, and cloud computing. This region is also home to leading 5G chipset manufacturers, fostering innovation and competition that drive the market forward.

Major market players included in this report are:

Huawei Technologies, Inc.

MediaTek Inc.

Intel Corporation

Samsung Electronics Co., Ltd.

Infineon Technologies AG

Qualcomm Technologies, Inc.

Unisoc Communications Inc.

Qorvo, Inc.

Murata Manufacturing Co., Ltd.

MACOM

The detailed segments and sub-segment of the market are explained below:

By Type:

- Modems
- RFICs
- Others

By Operating Frequency:

- Sub-6 GHz
- 24-39 GHz
- Above 39 GHz

By Processing Node Type:

- 7 nm
- 10 nm
- Others

By Deployment Type:

- Telecom Base Station Equipment
- Smartphones/Tablets
- Connected Vehicles
- Connected Devices
- Broadband Access Gateway Devices
- Others

By Vertical:

- Manufacturing
- Energy & Utilities
- Media & Entertainment
- IT & Telecom
- Transportation & Logistics
- Healthcare
- Others

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

#### Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

#### Latin America

- Brazil
- Mexico
- RoLA

#### Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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