

## **Global 5G Chipset Market**

Market Research Report | 2023-06-30 | 174 pages | BCC Research

### **AVAILABLE LICENSES:**

- Single User License \$5500.00
- 2-5 Users License \$6600.00
- Site License \$7920.00
- Enterprise License \$9504.00

### **Report description:**

Description

Report Scope:

In this report, the 5G chipset market was segmented by component, industry and geography. The report provides an overview of the global 5G chipset market and analyzes market trends. Using 2022 as the base year, the report provides estimated market data for the forecast period 2023 through 2028.

Revenue forecasts for this period are segmented into -

- Deployment type: network infrastructure, smart gadgets, smartphones, routers/modems and others.
- Wafer material type: GaN (gallium nitride)-based chipsets, GaAs (gallium arsenide)-based chipsets, InP (indium phosphide)-based chipsets, SiN (silicon nitride)-based chipsets, Si-based chipsets and others.
- IC type: RFIC, ASIC, cellular IC and mmWave IC.
- End use: telecom infrastructure, automotive, building automation, industrial automation, retail, Energy and utilities, consumer electronics and others.
- Region: North America is segmented into the U.S., Canada and Mexico; Europe is segmented into the U.K., France, Germany and Rest of Europe; the UK is further segmented into England, Wales, Scotland and Northern Ireland; Asia-Pacific (APAC) is segmented into China, Japan, India and the Rest of Asia-Pacific; Rest of the World is segmented into Middle East, Africa and Latin America.

COVID-19 had a massive impact on society beginning in 2020. This report considers the impact of COVID-19 and the economic slowdown it created. With people relying more on technology, the demand for 5G chipset will increase and boost market growth. The report also focuses on the main trends and challenges that affect the market and the vendor landscape.

This report has been prepared in a simple easy-to-understand format, with a number of tables and charts/figures. The scope of the

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scott-international.com](mailto:support@scott-international.com)

[www.scott-international.com](http://www.scott-international.com)

report includes a detailed study of global and regional markets for 5G chipset, with reasons given for variations in the growth of the industry in certain regions. The report examines each component of 5G chipset technology, determines its current market size and estimates its future market. The report also analyzes the market from the manufacturers' viewpoint, as well as that of the final consumer. A number of technical issues arising out of the use of 5G chipset technologies are discussed and solutions are indicated.

#### Report Includes:

- 46 data tables and 20 additional tables
- An overview and up-to-date analysis of the global markets for the 5G chipset technologies
- Analyses of the global market trends, with historic market revenue data (sales figures) for 2022, estimates for 2023, forecasts for 2024, and projections of compound annual growth rates (CAGRs) through 2028
- Discussion of the major growth drivers, industry-specific challenges, technology updates, and government policies and regulations for manufacturing of 5G semiconductor chipsets, that will shape the market as a basis for projecting demand in the next few years (2023-2028)
- Estimation of the actual market size and revenue forecast for the global 5G chipset market, and corresponding market share analysis based on the type of deployment type, wafer material, integrated circuit (IC) type, end use, and region
- Identification of viable technology drivers through a holistic review of various platform technologies, major types of end user markets, and adoption of 5G chipsets across a broad spectrum of industry verticals
- Review of the major industry trends, upcoming technologies and emerging new developments in the global 5G chipset industry
- A relevant patent analysis on the global supply chain management technologies, applications and solutions and review of recent key granted patents
- Insight into the recent industry structure, competitive aspects of each product segment, increasing investment on R&D activities, market development strategies, and company value share analysis
- Identification of the major stakeholders and analysis of the competitive landscape based on recent developments and segmental revenues
- Company profiles of major players within the industry, including Broadcom Inc., Huawei Technologies Co. Ltd., Intel Corp., Qualcomm Technologies Inc., and Samsung Electronics Co. Ltd.

#### Executive Summary

##### Summary:

The next generation of technology demands improved data speed. The demand for connectivity is expected to be driven by trends like autonomous cars, smart cities, industrial automation and IoT (Internet of Things). The ever-increasing demand for broad network coverage and high-speed internet, with reduced power consumption and latency, will augment the growth of the global 5G chipset market during the projection period. With 5G networks to be rolled out soon, the network providers and the original equipment manufacturers (OEMs) of smartphones are gearing up for the transition phase. 5G networks rely on the cloud and arrays of small antenna to provide ultra-speed data for mobile communication. The network band is different than that of the 4G (LTE) band, so smartphone OEMs are looking to equip handsets with 5G-enabled modem chipsets for end-to-end communication. The major manufacturers of 5G chipsets for handsets are Qualcomm, Samsung, Intel, MediaTek and Huawei. In terms of industry, the telecom and consumer electronics segment is expected to see significant growth in the 5G chipset market, driven by the need for real-time data processing and analysis in remote patient monitoring and telemedicine. The manufacturing industry is also expected to be a major contributor to the growth of the 5G chipset market, as companies look for ways to improve supply chain management and manufacturing processes. The Energy and Utilities segment is expected to be the fastest growing segment throughout the forecast period.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

In terms of geographic regions, Asia-Pacific held the highest revenue share in the market in 2022 at \$REDACTED billion and it is expected that it will continue to dominate with a value of \$REDACTED billion in 2028. The Asia-Pacific region has many companies supplying 5G chipsets. In this region, Japan, Korea and China are the key countries where demand is being generated and most players are located in APAC.

However, the North American region held the second largest share of the global market and is expected to offer substantial market potential for the 5G chipset market, expanding at a CAGR of REDACTED% during the forecast period, expected to reach \$REDACTED billion in 2028, up from \$REDACTED billion in 2022. Since North America is a quick adopter of technological advancements, the 5G chipset market swiftly formed a strong base in the region. High demand for advanced technologies like artificial intelligence, machine-to-machine communication and connected cars will provide huge opportunities for the development of the 5G chipset market in North America.

Overall, the 5G chipset market is experiencing strong growth and is expected to continue to expand rapidly in the coming years as more businesses adopt 5G chipsets to improve data processing capabilities.

## **Table of Contents:**

Table of Contents

Chapter 1 Introduction

Study Goals and Objectives

Reasons for Doing the Study

What's New in This Update?

Scope of Report

Research Methodology

Intended Audience

Information Sources

Geographic Breakdown

Analyst's Credentials

BCC Custom Research

Related BCC Research Reports

Chapter 2 Summary and Highlights

Market Summary

Market Highlights

Chapter 3 Market Overview

Introduction

Future Expectations

Overview of 5G Developments

COVID-19 Impact on the Market

Value Chain Analysis

Chipset Components

Chipset Design and Manufacture

Product Shipping

Service Enablement

Product-Based Owners

Distributors

End Users

Porter's Five Forces Analysis

Chapter 4 Market Dynamics

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

Introduction

Market Drivers

Upsurge in Demand for High-Speed Internet and Broad Network Coverage

Increasing Popularity of Self-driving Cars

Growing Demand for the Internet of Things and Machine-to-Machine Communications

Increasing Application of 5G in Artificial Intelligence

Market Restraints

Complex Technological Limitations and High Investment Cost

Uncertainties Over 5G Enabled Applications

Need for Skilled Expertise

Market Opportunities

Rising Demand for 5G Chips in Industrial Application

Integration of 5G Services with Satellite Communication

Lucrative Opportunities for Operators and Investors

Huge Untapped Opportunity in the Developing Countries

Chapter 5 Market Breakdown by Deployment Type

Overview

Network Infrastructure

Smart Gadgets

Smartphones

Routers/Modems

Other Devices

Chapter 6 Market Breakdown by Wafer Material Type

Overview

GaAs (Gallium Arsenide)-based Chipsets

InP (Indium Phosphide)-based Chipsets

SiN (Silicon Nitride)-based Chipsets

Si (Silicon)-based Chipsets

GaN (Gallium Nitride)-based Chipsets

Chapter 7 Market Breakdown by IC Type

Overview

RFIC

ASIC

Cellular IC

mmWave IC

Chapter 8 Market Breakdown by End Use

Overview

Telecom Infrastructure

Automotive

Building Automation

Industrial Automation

Retail

Energy and Utilities

Consumer Electronics

Others

Chapter 9 Market Breakdown by Region

Overview

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

North America  
Europe  
Asia-Pacific  
Rest of the World (RoW)  
Chapter 10 Emerging Technologies and Developments  
Overview  
Emerging Technologies/Key Trends in 5G Chipset Industry  
Artificial Intelligence of Things (AIoT)  
Enhanced Mobile Broadband (eMBB)  
Message Queuing Telemetry Transport (MQTT)  
Augmented Reality (AR) and Virtual Reality (VR) Applications  
Emerging Developments  
In-house Chip Design  
mmWave Technology Advancements  
Integration of Artificial Intelligence (AI) and Machine Learning (ML)  
Chapter 11 Patent Review and New Developments  
Overview  
Chapter 12 Venture Funding Outlook  
Venture Funding  
Chapter 13 Competitive Landscape  
Introduction  
Market Share Analysis  
Strategic Analysis  
Chapter 14 Company Profiles  
ADVANCED MICRO DEVICES INC.  
ANALOG DEVICES INC.  
BROADCOM INC.  
HEWLETT PACKARD ENTERPRISE CO.  
HUAWEI TECHNOLOGIES CO. LTD.  
INFINEON TECHNOLOGIES AG  
INTEL CORP.  
MEDIATEK INC.  
NOKIA CORP.  
NXP SEMICONDUCTORS N.V.  
QORVO INC.  
QUALCOMM TECHNOLOGIES INC.  
RENESAS ELECTRONICS CORP.  
SAMSUNG ELECTRONICS CO. LTD.  
STMICROELECTRONICS N.V.  
TEXAS INSTRUMENTS INC.  
TELEFONAKTIEBOLAGET LM ERICSSON (ERICSSON)  
U-BLOX HOLDING AG  
ZTE CORP.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

**Global 5G Chipset Market**

Market Research Report | 2023-06-30 | 174 pages | BCC Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

Select license	License	Price
	Single User License	\$5500.00
	2-5 Users License	\$6600.00
	Site License	\$7920.00
	Enterprise License	\$9504.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-11"/>
		Signature	

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

