

# Global 5G Mobile Baseband Chip 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 5G Mobile Baseband Chip market size was valued at US\$ 8062 million in 2025 and is forecast to a readjusted size of US\$ 10462 million by 2032 with a CAGR of 3.8% during review period.

A 5G Mobile Baseband Chip is the core semiconductor device in a smartphone responsible for enabling 5G cellular communication. It typically integrates digital baseband processing for the 5G NR air interface, cellular protocol stack processing, and control functions that coordinate with the RF transceiver, addressing the challenge of achieving stable, high-speed connectivity across cells, frequency bands, and radio access technologies in mobile scenarios. Through this capability, smartphones can complete essential communication procedures such as network access, authentication, resource scheduling, handover, and the carriage of voice and data services, while maintaining connection continuity and usable performance under complex wireless conditions including weak signal coverage, network congestion, and high-mobility environments. The product has evolved historically from predominantly standalone basebands in the 2G/3G era, focused on voice and low-rate data services, to the 4G era emphasizing mobile broadband throughput and more mature multi-band and multi-mode support, and further into the 5G era with the introduction of wider bandwidths, more complex carrier aggregation, massive MIMO, lower latency, and stronger uplink performance. In terms of product architecture, this evolution has led to the parallel development of standalone basebands and integrated basebands embedded within SoCs: the former facilitates rapid iteration of communication generations and high-end differentiation, while the latter has become the mainstream approach by optimizing power consumption, cost, and form factor through system-level integration. The upstream supply chain spans both raw materials and electronic manufacturing: on the

materials side it includes high-purity silicon, lithography and process chemicals (such as photoresists, specialty gases, and wet chemicals), interconnect metals and dielectric materials, as well as packaging inputs such as substrates, resins, solder materials, and thermal dissipation materials; on the component and manufacturing services side it includes chip design and IP (baseband algorithms, DSP and protocol-stack-related IP), advanced wafer fabrication, assembly and test services, and key companion components and modules that work in conjunction with the baseband, including RF transceivers and RF front-end components (filters, power amplifiers, switches/tuners, and antenna matching networks), as well as power management, clocking devices, and memory, collectively supporting stable operation and mass production of 5G smartphones across multiple frequency bands and operator networks worldwide.

In 2025, global production capacity for smartphone 5G baseband chips reached 1.0 billion units, with shipments totaling 724 million units. The average selling price was USD 10.82 per unit, and corporate gross margins ranged between 50% and 70%.

The market today is broadly defined by relatively high concentration, intensified system-level competition, and a growing need for supply-chain orchestration. Leading vendors maintain defensible positions through deep IP portfolios, rapid R&D cadence, carrier certification know-how, and long-running relationships with handset OEMs. Competitive differentiation has shifted from headline specifications to end-device experience and engineering execution—stability in weak and congested networks, uplink consistency, latency and jitter control, handover and recovery behavior, and the shape of power and thermal performance across real usage patterns. Because spectrum is fragmented and radio configurations vary widely by region and operator, modem-centric solutions increasingly require joint optimization with RF front-end parts, antenna design, board layout, system software, and operator parameters. This expands validation scope, lengthens integration cycles, and raises the bar for platform-scale tooling and repeatable mass-production readiness. On the OEM side, multi-sourcing strategies and vertical integration efforts are progressing in parallel: brands want both supply and pricing leverage and differentiated user experience, but achieving either typically increases organizational and engineering complexity.

Future development will center on smarter connectivity policy, tighter system coordination, and broader convergence of connectivity features. Rather than focusing solely on peak throughput, evolution will emphasize availability and consistency of experience—more granular decision-making across bands and modes, adaptive trade-offs among throughput, latency, and energy under changing coverage and load, and

deeper use of AI/ML for link management, congestion behavior, weak-signal scheduling, and application-aware QoS. Product architectures will continue to favor deeper integration for power, thermal, and footprint optimization, while certain premium or specialized scenarios may still benefit from more modular approaches that enable faster iteration or flexible radio configurations. At the ecosystem level, cellular connectivity is expected to integrate more tightly with positioning, satellite fallback, cross-device continuity, and coordination with vehicles and wearables, encouraging unified management across cellular and short-range radios and more software-defined capabilities. In parallel, validation frameworks and test automation will become more standardized to reduce the marginal cost of multi-region, multi-operator adaptation and to accelerate stable mass deployment.

Drivers and constraints are tightly intertwined. Momentum comes from persistent user expectations for more reliable coverage, longer battery life, and lower latency, along with application-side demand growth for strong uplink and real-time responsiveness. Ongoing operator network evolution and spectrum changes continually open new optimization opportunities, pulling both devices and silicon into faster iteration cycles. At the same time, OEMs' pursuit of reduced dependency, stronger bargaining power, and differentiated platforms encourages multi-vendor strategies and in-house development, increasing investment in engineering and tooling. Countervailing forces remain substantial: IP and licensing structures raise barriers to entry and introduce economic uncertainty; regulatory compliance and carrier acceptance testing across regions are resource-intensive and can extend schedules; and the rising complexity of RF front ends and antenna systems means silicon capability alone does not guarantee real-world experience—component variability, process drift, or thermal constraints can materially affect outcomes. Added geopolitical and advanced-manufacturing volatility further complicates access to leading processes, capacity, and critical materials, forcing repeated trade-offs among performance, cost, supply assurance, and compliance. Over time, the winners tend to be those who can industrialize repeatable end-to-end execution across IP, ecosystem, manufacturing, validation, and mass production—not just those with standout silicon in isolation.

This report is a detailed and comprehensive analysis for global 5G Mobile Baseband Chip 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 5G Mobile Baseband Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 5G Mobile Baseband Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 5G Mobile Baseband Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 5G Mobile Baseband Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 5G Mobile Baseband Chip

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 5G Mobile Baseband Chip 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, MediaTek, Samsung, Huawei HiSilicon, Apple, UNISOC, etc.

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

## **Market Segmentation**

5G Mobile Baseband Chip 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**

5G NR Sub-6 Modem

5G NR mmWave Modem

**Market segment by Modem Architecture**

Discrete Modem

SoC-Integrated Modem

**Market segment by Performance**

Entry-Level

Mainstream

Flagship-Level

**Market segment by Application**

IOS System Mobile Phone

Android Mobile Phone

HarmonyOS Mobile Phone

Others

**Major players covered**

Qualcomm

MediaTek

Samsung

Huawei HiSilicon

Apple

UNISOC

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 5G Mobile Baseband Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 5G Mobile Baseband Chip, with price, sales quantity, revenue, and global market share of 5G Mobile Baseband Chip from 2021 to 2026.

Chapter 3, the 5G Mobile Baseband Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 5G Mobile Baseband Chip 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 5G Mobile Baseband Chip 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 5G Mobile Baseband Chip.

Chapter 14 and 15, to describe 5G Mobile Baseband Chip sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global 5G Mobile Baseband Chip Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 5G NR Sub-6 Modem

1.3.3 5G NR mmWave Modem

1.4 Market Analysis by Modem Architecture

1.4.1 Overview: Global 5G Mobile Baseband Chip Consumption Value by Modem Architecture: 2021 Versus 2025 Versus 2032

1.4.2 Discrete Modem

1.4.3 SoC-Integrated Modem

1.5 Market Analysis by Performance

1.5.1 Overview: Global 5G Mobile Baseband Chip Consumption Value by Performance: 2021 Versus 2025 Versus 2032

1.5.2 Entry-Level

1.5.3 Mainstream

1.5.4 Flagship-Level

1.6 Market Analysis by Application

1.6.1 Overview: Global 5G Mobile Baseband Chip Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 IOS System Mobile Phone

1.6.3 Android Mobile Phone

1.6.4 HarmonyOS Mobile Phone

1.6.5 Others

1.7 Global 5G Mobile Baseband Chip Market Size & Forecast

1.7.1 Global 5G Mobile Baseband Chip Consumption Value (2021 & 2025 & 2032)

1.7.2 Global 5G Mobile Baseband Chip Sales Quantity (2021-2032)

1.7.3 Global 5G Mobile Baseband Chip Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 Qualcomm

2.1.1 Qualcomm Details

2.1.2 Qualcomm Major Business

- 2.1.3 Qualcomm 5G Mobile Baseband Chip Product and Services
- 2.1.4 Qualcomm 5G Mobile Baseband Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Qualcomm Recent Developments/Updates
- 2.2 MediaTek
  - 2.2.1 MediaTek Details
  - 2.2.2 MediaTek Major Business
  - 2.2.3 MediaTek 5G Mobile Baseband Chip Product and Services
  - 2.2.4 MediaTek 5G Mobile Baseband Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 MediaTek Recent Developments/Updates
- 2.3 Samsung
  - 2.3.1 Samsung Details
  - 2.3.2 Samsung Major Business
  - 2.3.3 Samsung 5G Mobile Baseband Chip Product and Services
  - 2.3.4 Samsung 5G Mobile Baseband Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Samsung Recent Developments/Updates
- 2.4 Huawei HiSilicon
  - 2.4.1 Huawei HiSilicon Details
  - 2.4.2 Huawei HiSilicon Major Business
  - 2.4.3 Huawei HiSilicon 5G Mobile Baseband Chip Product and Services
  - 2.4.4 Huawei HiSilicon 5G Mobile Baseband Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 Huawei HiSilicon Recent Developments/Updates
- 2.5 Apple
  - 2.5.1 Apple Details
  - 2.5.2 Apple Major Business
  - 2.5.3 Apple 5G Mobile Baseband Chip Product and Services
  - 2.5.4 Apple 5G Mobile Baseband Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Apple Recent Developments/Updates
- 2.6 UNISOC
  - 2.6.1 UNISOC Details
  - 2.6.2 UNISOC Major Business
  - 2.6.3 UNISOC 5G Mobile Baseband Chip Product and Services
  - 2.6.4 UNISOC 5G Mobile Baseband Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.6.5 UNISOC Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: 5G MOBILE BASEBAND CHIP BY MANUFACTURER**

- 3.1 Global 5G Mobile Baseband Chip Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global 5G Mobile Baseband Chip Revenue by Manufacturer (2021-2026)
- 3.3 Global 5G Mobile Baseband Chip Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of 5G Mobile Baseband Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 5G Mobile Baseband Chip Manufacturer Market Share in 2025
  - 3.4.3 Top 6 5G Mobile Baseband Chip Manufacturer Market Share in 2025
- 3.5 5G Mobile Baseband Chip Market: Overall Company Footprint Analysis
  - 3.5.1 5G Mobile Baseband Chip Market: Region Footprint
  - 3.5.2 5G Mobile Baseband Chip Market: Company Product Type Footprint
  - 3.5.3 5G Mobile Baseband Chip Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global 5G Mobile Baseband Chip Market Size by Region
  - 4.1.1 Global 5G Mobile Baseband Chip Sales Quantity by Region (2021-2032)
  - 4.1.2 Global 5G Mobile Baseband Chip Consumption Value by Region (2021-2032)
  - 4.1.3 Global 5G Mobile Baseband Chip Average Price by Region (2021-2032)
- 4.2 North America 5G Mobile Baseband Chip Consumption Value (2021-2032)
- 4.3 Europe 5G Mobile Baseband Chip Consumption Value (2021-2032)
- 4.4 Asia-Pacific 5G Mobile Baseband Chip Consumption Value (2021-2032)
- 4.5 South America 5G Mobile Baseband Chip Consumption Value (2021-2032)
- 4.6 Middle East & Africa 5G Mobile Baseband Chip Consumption Value (2021-2032)

### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global 5G Mobile Baseband Chip Sales Quantity by Type (2021-2032)
- 5.2 Global 5G Mobile Baseband Chip Consumption Value by Type (2021-2032)
- 5.3 Global 5G Mobile Baseband Chip Average Price by Type (2021-2032)

### **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global 5G Mobile Baseband Chip Sales Quantity by Application (2021-2032)
- 6.2 Global 5G Mobile Baseband Chip Consumption Value by Application (2021-2032)
- 6.3 Global 5G Mobile Baseband Chip Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America 5G Mobile Baseband Chip Sales Quantity by Type (2021-2032)
- 7.2 North America 5G Mobile Baseband Chip Sales Quantity by Application (2021-2032)
- 7.3 North America 5G Mobile Baseband Chip Market Size by Country
  - 7.3.1 North America 5G Mobile Baseband Chip Sales Quantity by Country (2021-2032)
  - 7.3.2 North America 5G Mobile Baseband Chip Consumption Value by Country (2021-2032)
  - 7.3.3 United States Market Size and Forecast (2021-2032)
  - 7.3.4 Canada Market Size and Forecast (2021-2032)
  - 7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

- 8.1 Europe 5G Mobile Baseband Chip Sales Quantity by Type (2021-2032)
- 8.2 Europe 5G Mobile Baseband Chip Sales Quantity by Application (2021-2032)
- 8.3 Europe 5G Mobile Baseband Chip Market Size by Country
  - 8.3.1 Europe 5G Mobile Baseband Chip Sales Quantity by Country (2021-2032)
  - 8.3.2 Europe 5G Mobile Baseband Chip Consumption Value by Country (2021-2032)
  - 8.3.3 Germany Market Size and Forecast (2021-2032)
  - 8.3.4 France Market Size and Forecast (2021-2032)
  - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  - 8.3.6 Russia Market Size and Forecast (2021-2032)
  - 8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific 5G Mobile Baseband Chip Market Size by Region
  - 9.3.1 Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Region (2021-2032)
  - 9.3.2 Asia-Pacific 5G Mobile Baseband Chip Consumption Value by Region (2021-2032)

- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

- 10.1 South America 5G Mobile Baseband Chip Sales Quantity by Type (2021-2032)
- 10.2 South America 5G Mobile Baseband Chip Sales Quantity by Application (2021-2032)
- 10.3 South America 5G Mobile Baseband Chip Market Size by Country
  - 10.3.1 South America 5G Mobile Baseband Chip Sales Quantity by Country (2021-2032)
  - 10.3.2 South America 5G Mobile Baseband Chip Consumption Value by Country (2021-2032)
  - 10.3.3 Brazil Market Size and Forecast (2021-2032)
  - 10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa 5G Mobile Baseband Chip Market Size by Country
  - 11.3.1 Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Country (2021-2032)
  - 11.3.2 Middle East & Africa 5G Mobile Baseband Chip Consumption Value by Country (2021-2032)
  - 11.3.3 Turkey Market Size and Forecast (2021-2032)
  - 11.3.4 Egypt Market Size and Forecast (2021-2032)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  - 11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

- 12.1 5G Mobile Baseband Chip Market Drivers

12.2 5G Mobile Baseband Chip Market Restraints

12.3 5G Mobile Baseband Chip Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of 5G Mobile Baseband Chip and Key Manufacturers

13.2 Manufacturing Costs Percentage of 5G Mobile Baseband Chip

13.3 5G Mobile Baseband Chip Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 5G Mobile Baseband Chip Typical Distributors

14.3 5G Mobile Baseband Chip Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global 5G Mobile Baseband Chip Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 5G Mobile Baseband Chip Consumption Value by Modem Architecture, (USD Million), 2021 & 2025 & 2032

Table 3. Global 5G Mobile Baseband Chip Consumption Value by Performance, (USD Million), 2021 & 2025 & 2032

Table 4. Global 5G Mobile Baseband Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Qualcomm Basic Information, Manufacturing Base and Competitors

Table 6. Qualcomm Major Business

Table 7. Qualcomm 5G Mobile Baseband Chip Product and Services

Table 8. Qualcomm 5G Mobile Baseband Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Qualcomm Recent Developments/Updates

Table 10. MediaTek Basic Information, Manufacturing Base and Competitors

Table 11. MediaTek Major Business

Table 12. MediaTek 5G Mobile Baseband Chip Product and Services

Table 13. MediaTek 5G Mobile Baseband Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. MediaTek Recent Developments/Updates

Table 15. Samsung Basic Information, Manufacturing Base and Competitors

Table 16. Samsung Major Business

Table 17. Samsung 5G Mobile Baseband Chip Product and Services

Table 18. Samsung 5G Mobile Baseband Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Samsung Recent Developments/Updates

Table 20. Huawei HiSilicon Basic Information, Manufacturing Base and Competitors

Table 21. Huawei HiSilicon Major Business

Table 22. Huawei HiSilicon 5G Mobile Baseband Chip Product and Services

Table 23. Huawei HiSilicon 5G Mobile Baseband Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Huawei HiSilicon Recent Developments/Updates

Table 25. Apple Basic Information, Manufacturing Base and Competitors

Table 26. Apple Major Business

- Table 27. Apple 5G Mobile Baseband Chip Product and Services
- Table 28. Apple 5G Mobile Baseband Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Apple Recent Developments/Updates
- Table 30. UNISOC Basic Information, Manufacturing Base and Competitors
- Table 31. UNISOC Major Business
- Table 32. UNISOC 5G Mobile Baseband Chip Product and Services
- Table 33. UNISOC 5G Mobile Baseband Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. UNISOC Recent Developments/Updates
- Table 35. Global 5G Mobile Baseband Chip Sales Quantity by Manufacturer (2021-2026) & (Million Units)
- Table 36. Global 5G Mobile Baseband Chip Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 37. Global 5G Mobile Baseband Chip Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 38. Market Position of Manufacturers in 5G Mobile Baseband Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 39. Head Office and 5G Mobile Baseband Chip Production Site of Key Manufacturer
- Table 40. 5G Mobile Baseband Chip Market: Company Product Type Footprint
- Table 41. 5G Mobile Baseband Chip Market: Company Product Application Footprint
- Table 42. 5G Mobile Baseband Chip New Market Entrants and Barriers to Market Entry
- Table 43. 5G Mobile Baseband Chip Mergers, Acquisition, Agreements, and Collaborations
- Table 44. Global 5G Mobile Baseband Chip Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 45. Global 5G Mobile Baseband Chip Sales Quantity by Region (2021-2026) & (Million Units)
- Table 46. Global 5G Mobile Baseband Chip Sales Quantity by Region (2027-2032) & (Million Units)
- Table 47. Global 5G Mobile Baseband Chip Consumption Value by Region (2021-2026) & (USD Million)
- Table 48. Global 5G Mobile Baseband Chip Consumption Value by Region (2027-2032) & (USD Million)
- Table 49. Global 5G Mobile Baseband Chip Average Price by Region (2021-2026) & (US\$/Unit)
- Table 50. Global 5G Mobile Baseband Chip Average Price by Region (2027-2032) & (US\$/Unit)

Table 51. Global 5G Mobile Baseband Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 52. Global 5G Mobile Baseband Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 53. Global 5G Mobile Baseband Chip Consumption Value by Type (2021-2026) & (USD Million)

Table 54. Global 5G Mobile Baseband Chip Consumption Value by Type (2027-2032) & (USD Million)

Table 55. Global 5G Mobile Baseband Chip Average Price by Type (2021-2026) & (US\$/Unit)

Table 56. Global 5G Mobile Baseband Chip Average Price by Type (2027-2032) & (US\$/Unit)

Table 57. Global 5G Mobile Baseband Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 58. Global 5G Mobile Baseband Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 59. Global 5G Mobile Baseband Chip Consumption Value by Application (2021-2026) & (USD Million)

Table 60. Global 5G Mobile Baseband Chip Consumption Value by Application (2027-2032) & (USD Million)

Table 61. Global 5G Mobile Baseband Chip Average Price by Application (2021-2026) & (US\$/Unit)

Table 62. Global 5G Mobile Baseband Chip Average Price by Application (2027-2032) & (US\$/Unit)

Table 63. North America 5G Mobile Baseband Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 64. North America 5G Mobile Baseband Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 65. North America 5G Mobile Baseband Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 66. North America 5G Mobile Baseband Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 67. North America 5G Mobile Baseband Chip Sales Quantity by Country (2021-2026) & (Million Units)

Table 68. North America 5G Mobile Baseband Chip Sales Quantity by Country (2027-2032) & (Million Units)

Table 69. North America 5G Mobile Baseband Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 70. North America 5G Mobile Baseband Chip Consumption Value by Country

(2027-2032) & (USD Million)

Table 71. Europe 5G Mobile Baseband Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 72. Europe 5G Mobile Baseband Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 73. Europe 5G Mobile Baseband Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 74. Europe 5G Mobile Baseband Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 75. Europe 5G Mobile Baseband Chip Sales Quantity by Country (2021-2026) & (Million Units)

Table 76. Europe 5G Mobile Baseband Chip Sales Quantity by Country (2027-2032) & (Million Units)

Table 77. Europe 5G Mobile Baseband Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 78. Europe 5G Mobile Baseband Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 79. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 80. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 81. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 82. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 83. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Region (2021-2026) & (Million Units)

Table 84. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity by Region (2027-2032) & (Million Units)

Table 85. Asia-Pacific 5G Mobile Baseband Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 86. Asia-Pacific 5G Mobile Baseband Chip Consumption Value by Region (2027-2032) & (USD Million)

Table 87. South America 5G Mobile Baseband Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 88. South America 5G Mobile Baseband Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 89. South America 5G Mobile Baseband Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 90. South America 5G Mobile Baseband Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 91. South America 5G Mobile Baseband Chip Sales Quantity by Country (2021-2026) & (Million Units)

Table 92. South America 5G Mobile Baseband Chip Sales Quantity by Country (2027-2032) & (Million Units)

Table 93. South America 5G Mobile Baseband Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 94. South America 5G Mobile Baseband Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 95. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 96. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 97. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 98. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 99. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Country (2021-2026) & (Million Units)

Table 100. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity by Country (2027-2032) & (Million Units)

Table 101. Middle East & Africa 5G Mobile Baseband Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 102. Middle East & Africa 5G Mobile Baseband Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 103. 5G Mobile Baseband Chip Raw Material

Table 104. Key Manufacturers of 5G Mobile Baseband Chip Raw Materials

Table 105. 5G Mobile Baseband Chip Typical Distributors

Table 106. 5G Mobile Baseband Chip Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. 5G Mobile Baseband Chip Picture
- Figure 2. Global 5G Mobile Baseband Chip Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global 5G Mobile Baseband Chip Revenue Market Share by Type in 2025
- Figure 4. 5G NR Sub-6 Modem Examples
- Figure 5. 5G NR mmWave Modem Examples
- Figure 6. Global 5G Mobile Baseband Chip Revenue by Modem Architecture, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global 5G Mobile Baseband Chip Revenue Market Share by Modem Architecture in 2025
- Figure 8. Discrete Modem Examples
- Figure 9. SoC-Integrated Modem Examples
- Figure 10. Global 5G Mobile Baseband Chip Revenue by Performance, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global 5G Mobile Baseband Chip Revenue Market Share by Performance in 2025
- Figure 12. Entry-Level Examples
- Figure 13. Mainstream Examples
- Figure 14. Flagship-Level Examples
- Figure 15. Global 5G Mobile Baseband Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 16. Global 5G Mobile Baseband Chip Revenue Market Share by Application in 2025
- Figure 17. IOS System Mobile Phone Examples
- Figure 18. Android Mobile Phone Examples
- Figure 19. HarmonyOS Mobile Phone Examples
- Figure 20. Others Examples
- Figure 21. Global 5G Mobile Baseband Chip Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 22. Global 5G Mobile Baseband Chip Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 23. Global 5G Mobile Baseband Chip Sales Quantity (2021-2032) & (Million Units)
- Figure 24. Global 5G Mobile Baseband Chip Price (2021-2032) & (US\$/Unit)
- Figure 25. Global 5G Mobile Baseband Chip Sales Quantity Market Share by

Manufacturer in 2025

Figure 26. Global 5G Mobile Baseband Chip Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of 5G Mobile Baseband Chip by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 5G Mobile Baseband Chip Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 5G Mobile Baseband Chip Manufacturer (Revenue) Market Share in 2025

Figure 30. Global 5G Mobile Baseband Chip Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global 5G Mobile Baseband Chip Consumption Value Market Share by Region (2021-2032)

Figure 32. North America 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 35. South America 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 37. Global 5G Mobile Baseband Chip Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global 5G Mobile Baseband Chip Consumption Value Market Share by Type (2021-2032)

Figure 39. Global 5G Mobile Baseband Chip Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global 5G Mobile Baseband Chip Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global 5G Mobile Baseband Chip Revenue Market Share by Application (2021-2032)

Figure 42. Global 5G Mobile Baseband Chip Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America 5G Mobile Baseband Chip Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America 5G Mobile Baseband Chip Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America 5G Mobile Baseband Chip Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America 5G Mobile Baseband Chip Consumption Value Market Share by Country (2021-2032)

Figure 47. United States 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe 5G Mobile Baseband Chip Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe 5G Mobile Baseband Chip Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe 5G Mobile Baseband Chip Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe 5G Mobile Baseband Chip Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 55. France 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific 5G Mobile Baseband Chip Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific 5G Mobile Baseband Chip Consumption Value Market Share by Region (2021-2032)

Figure 63. China 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Million)

Figure 65. South Korea 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 66. India 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 69. South America 5G Mobile Baseband Chip Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America 5G Mobile Baseband Chip Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America 5G Mobile Baseband Chip Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America 5G Mobile Baseband Chip Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa 5G Mobile Baseband Chip Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa 5G Mobile Baseband Chip Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa 5G Mobile Baseband Chip Consumption Value (2021-2032) & (USD Million)

Figure 83. 5G Mobile Baseband Chip Market Drivers

Figure 84. 5G Mobile Baseband Chip Market Restraints

Figure 85. 5G Mobile Baseband Chip Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of 5G Mobile Baseband Chip in 2025

Figure 88. Manufacturing Process Analysis of 5G Mobile Baseband Chip

Figure 89. 5G Mobile Baseband Chip Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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