

Global 5G Mobile Baseband Chip Market Growth 2026-2032

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Abstracts

The global 5G Mobile Baseband Chip market size is predicted to grow from US\$ 7665 million in 2025 to US\$ 10084 million in 2032; it is expected to grow at a CAGR of 4.0% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the “5G Mobile Baseband Chip Industry Forecast” looks at past sales and reviews total world 5G Mobile Baseband Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected 5G Mobile Baseband Chip sales for 2026 through 2032. With 5G Mobile Baseband Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 5G Mobile Baseband Chip industry.

This Insight Report provides a comprehensive analysis of the global 5G Mobile Baseband Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 5G Mobile Baseband Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 5G Mobile Baseband Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 5G Mobile Baseband Chip and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 5G Mobile Baseband Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of 5G Mobile Baseband Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

5G NR Sub-6 Modem

5G NR mmWave Modem

Segmentation by Modem Architecture:

Discrete Modem

SoC-Integrated Modem

Segmentation by Performance:

Entry-Level

Mainstream

Flagship-Level

Segmentation by Application:

IOS System Mobile Phone

Android Mobile Phone

HarmonyOS Mobile Phone

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Qualcomm

MediaTek

Samsung

Huawei HiSilicon

Apple

UNISOC

Key Questions Addressed in this Report

What is the 10-year outlook for the global 5G Mobile Baseband Chip market?

What factors are driving 5G Mobile Baseband Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 5G Mobile Baseband Chip market opportunities vary by end market size?

How does 5G Mobile Baseband Chip break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global 5G Mobile Baseband Chip Annual Sales 2021-2032

- 2.1.2 World Current & Future Analysis for 5G Mobile Baseband Chip by Geographic Region, 2021, 2025 & 2032

- 2.1.3 World Current & Future Analysis for 5G Mobile Baseband Chip by Country/Region, 2021, 2025 & 2032

2.2 5G Mobile Baseband Chip Segment by Type

- 2.2.1 5G NR Sub-6 Modem

- 2.2.2 5G NR mmWave Modem

- 2.2.3 5G Mobile Baseband Chip Sales by Type

- 2.2.3.1 Global 5G Mobile Baseband Chip Sales Market Share by Type (2021-2026)

- 2.2.3.2 Global 5G Mobile Baseband Chip Revenue and Market Share by Type

- (2021-2026)

- 2.2.3.3 Global 5G Mobile Baseband Chip Sale Price by Type (2021-2026)

2.3 5G Mobile Baseband Chip Segment by Modem Architecture

- 2.3.1 Discrete Modem

- 2.3.2 SoC-Integrated Modem

- 2.3.3 5G Mobile Baseband Chip Sales by Modem Architecture

- 2.3.3.1 Global 5G Mobile Baseband Chip Sales Market Share by Modem Architecture (2021-2026)

- 2.3.3.2 Global 5G Mobile Baseband Chip Revenue and Market Share by Modem Architecture (2021-2026)

- 2.3.3.3 Global 5G Mobile Baseband Chip Sale Price by Modem Architecture (2021-2026)

2.4 5G Mobile Baseband Chip Segment by Performance

2.4.1 Entry-Level

2.4.2 Mainstream

2.4.3 Flagship-Level

2.4.4 5G Mobile Baseband Chip Sales by Performance

2.4.4.1 Global 5G Mobile Baseband Chip Sales Market Share by Performance (2021-2026)

2.4.4.2 Global 5G Mobile Baseband Chip Revenue and Market Share by Performance (2021-2026)

2.4.4.3 Global 5G Mobile Baseband Chip Sale Price by Performance (2021-2026)

2.5 5G Mobile Baseband Chip Segment by Application

2.5.1 IOS System Mobile Phone

2.5.2 Android Mobile Phone

2.5.3 HarmonyOS Mobile Phone

2.5.4 Others

2.5.5 5G Mobile Baseband Chip Sales by Application

2.5.5.1 Global 5G Mobile Baseband Chip Sale Market Share by Application (2021-2026)

2.5.5.2 Global 5G Mobile Baseband Chip Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global 5G Mobile Baseband Chip Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global 5G Mobile Baseband Chip Breakdown Data by Company

3.1.1 Global 5G Mobile Baseband Chip Annual Sales by Company (2021-2026)

3.1.2 Global 5G Mobile Baseband Chip Sales Market Share by Company (2021-2026)

3.2 Global 5G Mobile Baseband Chip Annual Revenue by Company (2021-2026)

3.2.1 Global 5G Mobile Baseband Chip Revenue by Company (2021-2026)

3.2.2 Global 5G Mobile Baseband Chip Revenue Market Share by Company (2021-2026)

3.3 Global 5G Mobile Baseband Chip Sale Price by Company

3.4 Key Manufacturers 5G Mobile Baseband Chip Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers 5G Mobile Baseband Chip Product Location Distribution

3.4.2 Players 5G Mobile Baseband Chip Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR 5G MOBILE BASEBAND CHIP BY GEOGRAPHIC REGION

4.1 World Historic 5G Mobile Baseband Chip Market Size by Geographic Region (2021-2026)

4.1.1 Global 5G Mobile Baseband Chip Annual Sales by Geographic Region (2021-2026)

4.1.2 Global 5G Mobile Baseband Chip Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic 5G Mobile Baseband Chip Market Size by Country/Region (2021-2026)

4.2.1 Global 5G Mobile Baseband Chip Annual Sales by Country/Region (2021-2026)

4.2.2 Global 5G Mobile Baseband Chip Annual Revenue by Country/Region (2021-2026)

4.3 Americas 5G Mobile Baseband Chip Sales Growth

4.4 APAC 5G Mobile Baseband Chip Sales Growth

4.5 Europe 5G Mobile Baseband Chip Sales Growth

4.6 Middle East & Africa 5G Mobile Baseband Chip Sales Growth

5 AMERICAS

5.1 Americas 5G Mobile Baseband Chip Sales by Country

5.1.1 Americas 5G Mobile Baseband Chip Sales by Country (2021-2026)

5.1.2 Americas 5G Mobile Baseband Chip Revenue by Country (2021-2026)

5.2 Americas 5G Mobile Baseband Chip Sales by Type (2021-2026)

5.3 Americas 5G Mobile Baseband Chip Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC 5G Mobile Baseband Chip Sales by Region

6.1.1 APAC 5G Mobile Baseband Chip Sales by Region (2021-2026)

6.1.2 APAC 5G Mobile Baseband Chip Revenue by Region (2021-2026)

- 6.2 APAC 5G Mobile Baseband Chip Sales by Type (2021-2026)
- 6.3 APAC 5G Mobile Baseband Chip Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe 5G Mobile Baseband Chip by Country
 - 7.1.1 Europe 5G Mobile Baseband Chip Sales by Country (2021-2026)
 - 7.1.2 Europe 5G Mobile Baseband Chip Revenue by Country (2021-2026)
- 7.2 Europe 5G Mobile Baseband Chip Sales by Type (2021-2026)
- 7.3 Europe 5G Mobile Baseband Chip Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa 5G Mobile Baseband Chip by Country
 - 8.1.1 Middle East & Africa 5G Mobile Baseband Chip Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa 5G Mobile Baseband Chip Revenue by Country (2021-2026)
- 8.2 Middle East & Africa 5G Mobile Baseband Chip Sales by Type (2021-2026)
- 8.3 Middle East & Africa 5G Mobile Baseband Chip Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of 5G Mobile Baseband Chip
- 10.3 Manufacturing Process Analysis of 5G Mobile Baseband Chip
- 10.4 Industry Chain Structure of 5G Mobile Baseband Chip

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 5G Mobile Baseband Chip Distributors
- 11.3 5G Mobile Baseband Chip Customer

12 WORLD FORECAST REVIEW FOR 5G MOBILE BASEBAND CHIP BY GEOGRAPHIC REGION

- 12.1 Global 5G Mobile Baseband Chip Market Size Forecast by Region
 - 12.1.1 Global 5G Mobile Baseband Chip Forecast by Region (2027-2032)
 - 12.1.2 Global 5G Mobile Baseband Chip Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global 5G Mobile Baseband Chip Forecast by Type (2027-2032)
- 12.7 Global 5G Mobile Baseband Chip Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Qualcomm
 - 13.1.1 Qualcomm Company Information
 - 13.1.2 Qualcomm 5G Mobile Baseband Chip Product Portfolios and Specifications
 - 13.1.3 Qualcomm 5G Mobile Baseband Chip Sales, Revenue, Price and Gross Margin

(2021-2026)

13.1.4 Qualcomm Main Business Overview

13.1.5 Qualcomm Latest Developments

13.2 MediaTek

13.2.1 MediaTek Company Information

13.2.2 MediaTek 5G Mobile Baseband Chip Product Portfolios and Specifications

13.2.3 MediaTek 5G Mobile Baseband Chip Sales, Revenue, Price and Gross Margin

(2021-2026)

13.2.4 MediaTek Main Business Overview

13.2.5 MediaTek Latest Developments

13.3 Samsung

13.3.1 Samsung Company Information

13.3.2 Samsung 5G Mobile Baseband Chip Product Portfolios and Specifications

13.3.3 Samsung 5G Mobile Baseband Chip Sales, Revenue, Price and Gross Margin

(2021-2026)

13.3.4 Samsung Main Business Overview

13.3.5 Samsung Latest Developments

13.4 Huawei HiSilicon

13.4.1 Huawei HiSilicon Company Information

13.4.2 Huawei HiSilicon 5G Mobile Baseband Chip Product Portfolios and Specifications

13.4.3 Huawei HiSilicon 5G Mobile Baseband Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Huawei HiSilicon Main Business Overview

13.4.5 Huawei HiSilicon Latest Developments

13.5 Apple

13.5.1 Apple Company Information

13.5.2 Apple 5G Mobile Baseband Chip Product Portfolios and Specifications

13.5.3 Apple 5G Mobile Baseband Chip Sales, Revenue, Price and Gross Margin

(2021-2026)

13.5.4 Apple Main Business Overview

13.5.5 Apple Latest Developments

13.6 UNISOC

13.6.1 UNISOC Company Information

13.6.2 UNISOC 5G Mobile Baseband Chip Product Portfolios and Specifications

13.6.3 UNISOC 5G Mobile Baseband Chip Sales, Revenue, Price and Gross Margin

(2021-2026)

13.6.4 UNISOC Main Business Overview

13.6.5 UNISOC Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. 5G Mobile Baseband Chip Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. 5G Mobile Baseband Chip Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of 5G NR Sub-6 Modem
- Table 4. Major Players of 5G NR mmWave Modem
- Table 5. Global 5G Mobile Baseband Chip Sales by Type (2021-2026) & (Million Units)
- Table 6. Global 5G Mobile Baseband Chip Sales Market Share by Type (2021-2026)
- Table 7. Global 5G Mobile Baseband Chip Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global 5G Mobile Baseband Chip Revenue Market Share by Type (2021-2026)
- Table 9. Global 5G Mobile Baseband Chip Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 10. Major Players of Discrete Modem
- Table 11. Major Players of SoC-Integrated Modem
- Table 12. Global 5G Mobile Baseband Chip Sales by Modem Architecture (2021-2026) & (Million Units)
- Table 13. Global 5G Mobile Baseband Chip Sales Market Share by Modem Architecture (2021-2026)
- Table 14. Global 5G Mobile Baseband Chip Revenue by Modem Architecture (2021-2026) & (\$ million)
- Table 15. Global 5G Mobile Baseband Chip Revenue Market Share by Modem Architecture (2021-2026)
- Table 16. Global 5G Mobile Baseband Chip Sale Price by Modem Architecture (2021-2026) & (US\$/Unit)
- Table 17. Major Players of Entry-Level
- Table 18. Major Players of Mainstream
- Table 19. Major Players of Flagship-Level
- Table 20. Global 5G Mobile Baseband Chip Sales by Performance (2021-2026) & (Million Units)
- Table 21. Global 5G Mobile Baseband Chip Sales Market Share by Performance (2021-2026)
- Table 22. Global 5G Mobile Baseband Chip Revenue by Performance (2021-2026) & (\$ million)
- Table 23. Global 5G Mobile Baseband Chip Revenue Market Share by Performance (2021-2026)

Table 24. Global 5G Mobile Baseband Chip Sale Price by Performance (2021-2026) & (US\$/Unit)

Table 25. Global 5G Mobile Baseband Chip Sale by Application (2021-2026) & (Million Units)

Table 26. Global 5G Mobile Baseband Chip Sale Market Share by Application (2021-2026)

Table 27. Global 5G Mobile Baseband Chip Revenue by Application (2021-2026) & (\$ million)

Table 28. Global 5G Mobile Baseband Chip Revenue Market Share by Application (2021-2026)

Table 29. Global 5G Mobile Baseband Chip Sale Price by Application (2021-2026) & (US\$/Unit)

Table 30. Global 5G Mobile Baseband Chip Sales by Company (2021-2026) & (Million Units)

Table 31. Global 5G Mobile Baseband Chip Sales Market Share by Company (2021-2026)

Table 32. Global 5G Mobile Baseband Chip Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global 5G Mobile Baseband Chip Revenue Market Share by Company (2021-2026)

Table 34. Global 5G Mobile Baseband Chip Sale Price by Company (2021-2026) & (US\$/Unit)

Table 35. Key Manufacturers 5G Mobile Baseband Chip Producing Area Distribution and Sales Area

Table 36. Players 5G Mobile Baseband Chip Products Offered

Table 37. 5G Mobile Baseband Chip Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global 5G Mobile Baseband Chip Sales by Geographic Region (2021-2026) & (Million Units)

Table 41. Global 5G Mobile Baseband Chip Sales Market Share Geographic Region (2021-2026)

Table 42. Global 5G Mobile Baseband Chip Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global 5G Mobile Baseband Chip Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global 5G Mobile Baseband Chip Sales by Country/Region (2021-2026) & (Million Units)

Table 45. Global 5G Mobile Baseband Chip Sales Market Share by Country/Region (2021-2026)

Table 46. Global 5G Mobile Baseband Chip Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global 5G Mobile Baseband Chip Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas 5G Mobile Baseband Chip Sales by Country (2021-2026) & (Million Units)

Table 49. Americas 5G Mobile Baseband Chip Sales Market Share by Country (2021-2026)

Table 50. Americas 5G Mobile Baseband Chip Revenue by Country (2021-2026) & (\$ millions)

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

Table 52. Americas 5G Mobile Baseband Chip Sales by Application (2021-2026) & (Million Units)

Table 53. APAC 5G Mobile Baseband Chip Sales by Region (2021-2026) & (Million Units)

Table 54. APAC 5G Mobile Baseband Chip Sales Market Share by Region (2021-2026)

Table 55. APAC 5G Mobile Baseband Chip Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC 5G Mobile Baseband Chip Sales by Type (2021-2026) & (Million Units)

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

Table 58. Europe 5G Mobile Baseband Chip Sales by Country (2021-2026) & (Million Units)

Table 59. Europe 5G Mobile Baseband Chip Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe 5G Mobile Baseband Chip Sales by Type (2021-2026) & (Million Units)

Table 61. Europe 5G Mobile Baseband Chip Sales by Application (2021-2026) & (Million Units)

Table 62. Middle East & Africa 5G Mobile Baseband Chip Sales by Country (2021-2026) & (Million Units)

Table 63. Middle East & Africa 5G Mobile Baseband Chip Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa 5G Mobile Baseband Chip Sales by Type (2021-2026) & (Million Units)

Table 65. Middle East & Africa 5G Mobile Baseband Chip Sales by Application

(2021-2026) & (Million Units)

Table 66. Key Market Drivers & Growth Opportunities of 5G Mobile Baseband Chip

Table 67. Key Market Challenges & Risks of 5G Mobile Baseband Chip

Table 68. Key Industry Trends of 5G Mobile Baseband Chip

Table 69. 5G Mobile Baseband Chip Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. 5G Mobile Baseband Chip Distributors List

Table 72. 5G Mobile Baseband Chip Customer List

Table 73. Global 5G Mobile Baseband Chip Sales Forecast by Region (2027-2032) & (Million Units)

Table 74. Global 5G Mobile Baseband Chip Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas 5G Mobile Baseband Chip Sales Forecast by Country (2027-2032) & (Million Units)

Table 76. Americas 5G Mobile Baseband Chip Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC 5G Mobile Baseband Chip Sales Forecast by Region (2027-2032) & (Million Units)

Table 78. APAC 5G Mobile Baseband Chip Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe 5G Mobile Baseband Chip Sales Forecast by Country (2027-2032) & (Million Units)

Table 80. Europe 5G Mobile Baseband Chip Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa 5G Mobile Baseband Chip Sales Forecast by Country (2027-2032) & (Million Units)

Table 82. Middle East & Africa 5G Mobile Baseband Chip Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global 5G Mobile Baseband Chip Sales Forecast by Type (2027-2032) & (Million Units)

Table 84. Global 5G Mobile Baseband Chip Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global 5G Mobile Baseband Chip Sales Forecast by Application (2027-2032) & (Million Units)

Table 86. Global 5G Mobile Baseband Chip Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Qualcomm Basic Information, 5G Mobile Baseband Chip Manufacturing Base, Sales Area and Its Competitors

Table 88. Qualcomm 5G Mobile Baseband Chip Product Portfolios and Specifications

Table 89. Qualcomm 5G Mobile Baseband Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Qualcomm Main Business

Table 91. Qualcomm Latest Developments

Table 92. MediaTek Basic Information, 5G Mobile Baseband Chip Manufacturing Base, Sales Area and Its Competitors

Table 93. MediaTek 5G Mobile Baseband Chip Product Portfolios and Specifications

Table 94. MediaTek 5G Mobile Baseband Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. MediaTek Main Business

Table 96. MediaTek Latest Developments

Table 97. Samsung Basic Information, 5G Mobile Baseband Chip Manufacturing Base, Sales Area and Its Competitors

Table 98. Samsung 5G Mobile Baseband Chip Product Portfolios and Specifications

Table 99. Samsung 5G Mobile Baseband Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Samsung Main Business

Table 101. Samsung Latest Developments

Table 102. Huawei HiSilicon Basic Information, 5G Mobile Baseband Chip Manufacturing Base, Sales Area and Its Competitors

Table 103. Huawei HiSilicon 5G Mobile Baseband Chip Product Portfolios and Specifications

Table 104. Huawei HiSilicon 5G Mobile Baseband Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Huawei HiSilicon Main Business

Table 106. Huawei HiSilicon Latest Developments

Table 107. Apple Basic Information, 5G Mobile Baseband Chip Manufacturing Base, Sales Area and Its Competitors

Table 108. Apple 5G Mobile Baseband Chip Product Portfolios and Specifications

Table 109. Apple 5G Mobile Baseband Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Apple Main Business

Table 111. Apple Latest Developments

Table 112. UNISOC Basic Information, 5G Mobile Baseband Chip Manufacturing Base, Sales Area and Its Competitors

Table 113. UNISOC 5G Mobile Baseband Chip Product Portfolios and Specifications

Table 114. UNISOC 5G Mobile Baseband Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. UNISOC Main Business

Table 116. UNISOC Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of 5G Mobile Baseband Chip

Figure 2. 5G Mobile Baseband Chip Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global 5G Mobile Baseband Chip Sales Growth Rate 2021-2032 (Million Units)

Figure 7. Global 5G Mobile Baseband Chip Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. 5G Mobile Baseband Chip Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. 5G Mobile Baseband Chip Sales Market Share by Country/Region (2025)

Figure 10. 5G Mobile Baseband Chip Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of 5G NR Sub-6 Modem

Figure 12. Product Picture of 5G NR mmWave Modem

Figure 13. Global 5G Mobile Baseband Chip Sales Market Share by Type in 2026

Figure 14. Global 5G Mobile Baseband Chip Revenue Market Share by Type (2021-2026)

Figure 15. Product Picture of Discrete Modem

Figure 16. Product Picture of SoC-Integrated Modem

Figure 17. Global 5G Mobile Baseband Chip Sales Market Share by Modem Architecture in 2026

Figure 18. Global 5G Mobile Baseband Chip Revenue Market Share by Modem Architecture (2021-2026)

Figure 19. Product Picture of Entry-Level

Figure 20. Product Picture of Mainstream

Figure 21. Product Picture of Flagship-Level

Figure 22. Global 5G Mobile Baseband Chip Sales Market Share by Performance in 2026

Figure 23. Global 5G Mobile Baseband Chip Revenue Market Share by Performance (2021-2026)

Figure 24. 5G Mobile Baseband Chip Consumed in IOS System Mobile Phone

Figure 25. Global 5G Mobile Baseband Chip Market: IOS System Mobile Phone (2021-2026) & (Million Units)

- Figure 26. 5G Mobile Baseband Chip Consumed in Android Mobile Phone
- Figure 27. Global 5G Mobile Baseband Chip Market: Android Mobile Phone (2021-2026) & (Million Units)
- Figure 28. 5G Mobile Baseband Chip Consumed in HarmonyOS Mobile Phone
- Figure 29. Global 5G Mobile Baseband Chip Market: HarmonyOS Mobile Phone (2021-2026) & (Million Units)
- Figure 30. 5G Mobile Baseband Chip Consumed in Others
- Figure 31. Global 5G Mobile Baseband Chip Market: Others (2021-2026) & (Million Units)
- Figure 32. Global 5G Mobile Baseband Chip Sale Market Share by Application (2025)
- Figure 33. Global 5G Mobile Baseband Chip Revenue Market Share by Application in 2026
- Figure 34. 5G Mobile Baseband Chip Sales by Company in 2026 (Million Units)
- Figure 35. Global 5G Mobile Baseband Chip Sales Market Share by Company in 2026
- Figure 36. 5G Mobile Baseband Chip Revenue by Company in 2026 (\$ millions)
- Figure 37. Global 5G Mobile Baseband Chip Revenue Market Share by Company in 2026
- Figure 38. Global 5G Mobile Baseband Chip Sales Market Share by Geographic Region (2021-2026)
- Figure 39. Global 5G Mobile Baseband Chip Revenue Market Share by Geographic Region in 2026
- Figure 40. Americas 5G Mobile Baseband Chip Sales 2021-2026 (Million Units)
- Figure 41. Americas 5G Mobile Baseband Chip Revenue 2021-2026 (\$ millions)
- Figure 42. APAC 5G Mobile Baseband Chip Sales 2021-2026 (Million Units)
- Figure 43. APAC 5G Mobile Baseband Chip Revenue 2021-2026 (\$ millions)
- Figure 44. Europe 5G Mobile Baseband Chip Sales 2021-2026 (Million Units)
- Figure 45. Europe 5G Mobile Baseband Chip Revenue 2021-2026 (\$ millions)
- Figure 46. Middle East & Africa 5G Mobile Baseband Chip Sales 2021-2026 (Million Units)
- Figure 47. Middle East & Africa 5G Mobile Baseband Chip Revenue 2021-2026 (\$ millions)
- Figure 48. Americas 5G Mobile Baseband Chip Sales Market Share by Country in 2026
- Figure 49. Americas 5G Mobile Baseband Chip Revenue Market Share by Country (2021-2026)
- Figure 50. Americas 5G Mobile Baseband Chip Sales Market Share by Type (2021-2026)
- Figure 51. Americas 5G Mobile Baseband Chip Sales Market Share by Application (2021-2026)
- Figure 52. United States 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$

millions)

Figure 53. Canada 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC 5G Mobile Baseband Chip Sales Market Share by Region in 2026

Figure 57. APAC 5G Mobile Baseband Chip Revenue Market Share by Region (2021-2026)

Figure 58. APAC 5G Mobile Baseband Chip Sales Market Share by Type (2021-2026)

Figure 59. APAC 5G Mobile Baseband Chip Sales Market Share by Application (2021-2026)

Figure 60. China 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 64. India 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe 5G Mobile Baseband Chip Sales Market Share by Country in 2026

Figure 68. Europe 5G Mobile Baseband Chip Revenue Market Share by Country (2021-2026)

Figure 69. Europe 5G Mobile Baseband Chip Sales Market Share by Type (2021-2026)

Figure 70. Europe 5G Mobile Baseband Chip Sales Market Share by Application (2021-2026)

Figure 71. Germany 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 72. France 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa 5G Mobile Baseband Chip Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa 5G Mobile Baseband Chip Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa 5G Mobile Baseband Chip Sales Market Share by Application (2021-2026)

Figure 79. Egypt 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$

millions)

Figure 81. Israel 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries 5G Mobile Baseband Chip Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of 5G Mobile Baseband Chip in 2026

Figure 85. Manufacturing Process Analysis of 5G Mobile Baseband Chip

Figure 86. Industry Chain Structure of 5G Mobile Baseband Chip

Figure 87. Channels of Distribution

Figure 88. Global 5G Mobile Baseband Chip Sales Market Forecast by Region (2027-2032)

Figure 89. Global 5G Mobile Baseband Chip Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global 5G Mobile Baseband Chip Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global 5G Mobile Baseband Chip Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global 5G Mobile Baseband Chip Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global 5G Mobile Baseband Chip Revenue Market Share Forecast by Application (2027-2032)

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