

Global Cellular IoT Module IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cellular IoT Module IC market size is expected to reach \$ 1739 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032). Cellular IoT module chips refer to core chip systems that integrate cellular baseband communication capabilities and are used to connect to the public network of operators. They are mainly used in IoT terminals such as LTE Cat 1, Cat 1 bis, LTE Cat M, NB IoT, and 5G RedCap, responsible for implementing cellular protocol stacks, radio frequency modulation and demodulation, and basic data communication functions. In 2025, global sales of cellular IoT module chips were approximately 85 million units, with an average unit price of approximately US\$13 and an overall capacity utilization rate of approximately 80%. Upstream companies are mainly distributed in silicon wafer manufacturing, radio frequency front-end devices, power management chips, memory chips, security chips, packaging and testing, etc.; midstream companies are cellular communication module designers and manufacturers; and downstream companies cover industries such as smart cities, energy metering, industrial automation, connected vehicles, financial payments, logistics tracking, and consumer electronics. End customers include communication equipment manufacturers, power and energy companies, industrial system integrators, automakers, logistics service providers, and retail chains. The overall gross profit margin of this type of chip is approximately 20% to 35%, significantly affected by the complexity of the standard, integration level, and economies of scale. The product cost structure mainly consists of the cost of baseband and RF core silicon, RF front-end devices, power management and clock crystals, storage and security units, and packaging, testing, and certification fees. On the demand side, downstream demand is concentrated in smart meters, water meters, gas meters, industrial data acquisition terminals, shared equipment, smart POS systems, vehicle communication terminals, asset tracking equipment, and industrial routers. Downstream customers mainly include utility companies, telecommunications operators,

industrial equipment manufacturers, logistics companies, automakers, and industry solution providers. In terms of business opportunities, policy drivers include the construction of digital infrastructure, smart manufacturing, and new urbanization in various countries. Technological innovation is reflected in the lower power consumption and higher integration brought by new standards such as Cat 1 bis and RedCap. Meanwhile, enhanced chip-level security and edge computing capabilities increase product added value. Changing consumer demands focus on the continued growth in demand for low power consumption, long battery life, wide coverage, and highly reliable connectivity, ensuring that cellular IoT module chips still have clear development potential in the medium to long term.

The cellular IoT module chip market is at a critical juncture, upgrading from low-speed connectivity to medium-capability connectivity. Overall demand is shifting from simply pursuing low cost and wide coverage to improving stability, security, and lifecycle manageability while maintaining controllable power consumption. As Cat 1 and Cat 1 bis become the mainstream global standards, the focus of competition among chip manufacturers has shifted from standard adoption to integration, power control, and large-scale delivery capabilities. Price pressure persists, but manufacturers with RF integration, low-power design, and long-term supply capabilities can still maintain reasonable profit margins. Meanwhile, the gradual rollout of 5G RedCap opens up new growth opportunities for mid-to-high-end industrial and sectoral IoT, but it is unlikely to replace mature standards in the short term. Overall, the cellular IoT module chip market will exhibit characteristics of steady shipment growth, a slow decline in average unit price, and structural upgrades, with the industry entering a competitive phase where scale, product stability, and ecosystem cooperation capabilities serve as core barriers to entry.

This report studies the global Cellular IoT Module IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cellular IoT Module IC and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cellular IoT Module IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cellular IoT Module IC total production and demand, 2021-2032, (K Pcs)

Global Cellular IoT Module IC total production value, 2021-2032, (USD Million)

Global Cellular IoT Module IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Cellular IoT Module IC consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Cellular IoT Module IC domestic production, consumption, key domestic manufacturers and share

Global Cellular IoT Module IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Cellular IoT Module IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Cellular IoT Module IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Cellular IoT Module IC market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Qualcomm, UNISOC, ASR, MediaTek, Shanghai Eigencomm, Xinyi Information Technology, Sequans, Hisilicon, Beijing Mlink Technology Inc, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cellular IoT Module IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Cellular IoT Module IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cellular IoT Module IC Market, Segmentation by Type:

4G IC

5G IC

NB-IOT IC

Other

Global Cellular IoT Module IC Market, Segmentation by Function:

Processor

Sensor

Other

Global Cellular IoT Module IC Market, Segmentation by Technical:

Baseband Chip

RF Chip

Other

Global Cellular IoT Module IC Market, Segmentation by Application:

Consumer Electronics

Industrial Control

Automobile

Medical Care

Other

Companies Profiled:

Qualcomm

UNISOC

ASR

MediaTek

Shanghai Eigencomm

Xinyi Information Technology

Sequans

Hisilicon

Beijing Mlink Technology Inc

Key Questions Answered:

1. How big is the global Cellular IoT Module IC market?
2. What is the demand of the global Cellular IoT Module IC market?
3. What is the year over year growth of the global Cellular IoT Module IC market?
4. What is the production and production value of the global Cellular IoT Module IC market?
5. Who are the key producers in the global Cellular IoT Module IC market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Cellular IoT Module IC Introduction
- 1.2 World Cellular IoT Module IC Supply & Forecast
 - 1.2.1 World Cellular IoT Module IC Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Cellular IoT Module IC Production (2021-2032)
 - 1.2.3 World Cellular IoT Module IC Pricing Trends (2021-2032)
- 1.3 World Cellular IoT Module IC Production by Region (Based on Production Site)
 - 1.3.1 World Cellular IoT Module IC Production Value by Region (2021-2032)
 - 1.3.2 World Cellular IoT Module IC Production by Region (2021-2032)
 - 1.3.3 World Cellular IoT Module IC Average Price by Region (2021-2032)
 - 1.3.4 North America Cellular IoT Module IC Production (2021-2032)
 - 1.3.5 Europe Cellular IoT Module IC Production (2021-2032)
 - 1.3.6 China Cellular IoT Module IC Production (2021-2032)
 - 1.3.7 Japan Cellular IoT Module IC Production (2021-2032)
 - 1.3.8 South Korea Cellular IoT Module IC Production (2021-2032)
 - 1.3.9 China Taiwan Cellular IoT Module IC Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Cellular IoT Module IC Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Cellular IoT Module IC Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Cellular IoT Module IC Demand (2021-2032)
- 2.2 World Cellular IoT Module IC Consumption by Region
 - 2.2.1 World Cellular IoT Module IC Consumption by Region (2021-2026)
 - 2.2.2 World Cellular IoT Module IC Consumption Forecast by Region (2027-2032)
- 2.3 United States Cellular IoT Module IC Consumption (2021-2032)
- 2.4 China Cellular IoT Module IC Consumption (2021-2032)
- 2.5 Europe Cellular IoT Module IC Consumption (2021-2032)
- 2.6 Japan Cellular IoT Module IC Consumption (2021-2032)
- 2.7 South Korea Cellular IoT Module IC Consumption (2021-2032)
- 2.8 ASEAN Cellular IoT Module IC Consumption (2021-2032)
- 2.9 India Cellular IoT Module IC Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Cellular IoT Module IC Production Value by Manufacturer (2021-2026)
- 3.2 World Cellular IoT Module IC Production by Manufacturer (2021-2026)
- 3.3 World Cellular IoT Module IC Average Price by Manufacturer (2021-2026)
- 3.4 Cellular IoT Module IC Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Cellular IoT Module IC Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Cellular IoT Module IC in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Cellular IoT Module IC in 2025
- 3.6 Cellular IoT Module IC Market: Overall Company Footprint Analysis
 - 3.6.1 Cellular IoT Module IC Market: Region Footprint
 - 3.6.2 Cellular IoT Module IC Market: Company Product Type Footprint
 - 3.6.3 Cellular IoT Module IC Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Cellular IoT Module IC Production Value Comparison
 - 4.1.1 United States VS China: Cellular IoT Module IC Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Cellular IoT Module IC Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Cellular IoT Module IC Production Comparison
 - 4.2.1 United States VS China: Cellular IoT Module IC Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Cellular IoT Module IC Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Cellular IoT Module IC Consumption Comparison
 - 4.3.1 United States VS China: Cellular IoT Module IC Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Cellular IoT Module IC Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Cellular IoT Module IC Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Cellular IoT Module IC Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Cellular IoT Module IC Production Value (2021-2026)

4.4.3 United States Based Manufacturers Cellular IoT Module IC Production (2021-2026)

4.5 China Based Cellular IoT Module IC Manufacturers and Market Share

4.5.1 China Based Cellular IoT Module IC Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Cellular IoT Module IC Production Value (2021-2026)

4.5.3 China Based Manufacturers Cellular IoT Module IC Production (2021-2026)

4.6 Rest of World Based Cellular IoT Module IC Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Cellular IoT Module IC Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Cellular IoT Module IC Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Cellular IoT Module IC Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Cellular IoT Module IC Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 4G IC

5.2.2 5G IC

5.2.3 NB-IOT IC

5.2.4 Other

5.3 Market Segment by Type

5.3.1 World Cellular IoT Module IC Production by Type (2021-2032)

5.3.2 World Cellular IoT Module IC Production Value by Type (2021-2032)

5.3.3 World Cellular IoT Module IC Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FUNCTION

6.1 World Cellular IoT Module IC Market Size Overview by Function: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Function

6.2.1 Processor

6.2.2 Sensor

6.2.3 Other

6.3 Market Segment by Function

6.3.1 World Cellular IoT Module IC Production by Function (2021-2032)

6.3.2 World Cellular IoT Module IC Production Value by Function (2021-2032)

6.3.3 World Cellular IoT Module IC Average Price by Function (2021-2032)

7 MARKET ANALYSIS BY TECHNICAL

7.1 World Cellular IoT Module IC Market Size Overview by Technical: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Technical

7.2.1 Baseband Chip

7.2.2 RF Chip

7.2.3 Other

7.3 Market Segment by Technical

7.3.1 World Cellular IoT Module IC Production by Technical (2021-2032)

7.3.2 World Cellular IoT Module IC Production Value by Technical (2021-2032)

7.3.3 World Cellular IoT Module IC Average Price by Technical (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Cellular IoT Module IC Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumer Electronics

8.2.2 Industrial Control

8.2.3 Automobile

8.2.4 Medical Care

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Cellular IoT Module IC Production by Application (2021-2032)

8.3.2 World Cellular IoT Module IC Production Value by Application (2021-2032)

8.3.3 World Cellular IoT Module IC Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Qualcomm

9.1.1 Qualcomm Details

9.1.2 Qualcomm Major Business

9.1.3 Qualcomm Cellular IoT Module IC Product and Services

9.1.4 Qualcomm Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Qualcomm Recent Developments/Updates

9.1.6 Qualcomm Competitive Strengths & Weaknesses

9.2 UNISOC

9.2.1 UNISOC Details

9.2.2 UNISOC Major Business

9.2.3 UNISOC Cellular IoT Module IC Product and Services

9.2.4 UNISOC Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 UNISOC Recent Developments/Updates

9.2.6 UNISOC Competitive Strengths & Weaknesses

9.3 ASR

9.3.1 ASR Details

9.3.2 ASR Major Business

9.3.3 ASR Cellular IoT Module IC Product and Services

9.3.4 ASR Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 ASR Recent Developments/Updates

9.3.6 ASR Competitive Strengths & Weaknesses

9.4 MediaTek

9.4.1 MediaTek Details

9.4.2 MediaTek Major Business

9.4.3 MediaTek Cellular IoT Module IC Product and Services

9.4.4 MediaTek Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 MediaTek Recent Developments/Updates

9.4.6 MediaTek Competitive Strengths & Weaknesses

9.5 Shanghai Eigencomm

9.5.1 Shanghai Eigencomm Details

9.5.2 Shanghai Eigencomm Major Business

9.5.3 Shanghai Eigencomm Cellular IoT Module IC Product and Services

9.5.4 Shanghai Eigencomm Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Shanghai Eigencomm Recent Developments/Updates

- 9.5.6 Shanghai Eigencomm Competitive Strengths & Weaknesses
- 9.6 Xinyi Information Technology
 - 9.6.1 Xinyi Information Technology Details
 - 9.6.2 Xinyi Information Technology Major Business
 - 9.6.3 Xinyi Information Technology Cellular IoT Module IC Product and Services
 - 9.6.4 Xinyi Information Technology Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Xinyi Information Technology Recent Developments/Updates
 - 9.6.6 Xinyi Information Technology Competitive Strengths & Weaknesses
- 9.7 Sequans
 - 9.7.1 Sequans Details
 - 9.7.2 Sequans Major Business
 - 9.7.3 Sequans Cellular IoT Module IC Product and Services
 - 9.7.4 Sequans Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Sequans Recent Developments/Updates
 - 9.7.6 Sequans Competitive Strengths & Weaknesses
- 9.8 Hisilicon
 - 9.8.1 Hisilicon Details
 - 9.8.2 Hisilicon Major Business
 - 9.8.3 Hisilicon Cellular IoT Module IC Product and Services
 - 9.8.4 Hisilicon Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Hisilicon Recent Developments/Updates
 - 9.8.6 Hisilicon Competitive Strengths & Weaknesses
- 9.9 Beijing Mlink Technology Inc
 - 9.9.1 Beijing Mlink Technology Inc Details
 - 9.9.2 Beijing Mlink Technology Inc Major Business
 - 9.9.3 Beijing Mlink Technology Inc Cellular IoT Module IC Product and Services
 - 9.9.4 Beijing Mlink Technology Inc Cellular IoT Module IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Beijing Mlink Technology Inc Recent Developments/Updates
 - 9.9.6 Beijing Mlink Technology Inc Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Cellular IoT Module IC Industry Chain
- 10.2 Cellular IoT Module IC Upstream Analysis
 - 10.2.1 Cellular IoT Module IC Core Raw Materials

- 10.2.2 Main Manufacturers of Cellular IoT Module IC Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Cellular IoT Module IC Production Mode
- 10.6 Cellular IoT Module IC Procurement Model
- 10.7 Cellular IoT Module IC Industry Sales Model and Sales Channels
 - 10.7.1 Cellular IoT Module IC Sales Model
 - 10.7.2 Cellular IoT Module IC Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Cellular IoT Module IC Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Cellular IoT Module IC Production Value by Region (2021-2026) & (USD Million)

Table 3. World Cellular IoT Module IC Production Value by Region (2027-2032) & (USD Million)

Table 4. World Cellular IoT Module IC Production Value Market Share by Region (2021-2026)

Table 5. World Cellular IoT Module IC Production Value Market Share by Region (2027-2032)

Table 6. World Cellular IoT Module IC Production by Region (2021-2026) & (K Pcs)

Table 7. World Cellular IoT Module IC Production by Region (2027-2032) & (K Pcs)

Table 8. World Cellular IoT Module IC Production Market Share by Region (2021-2026)

Table 9. World Cellular IoT Module IC Production Market Share by Region (2027-2032)

Table 10. World Cellular IoT Module IC Average Price by Region (2021-2026) & (US\$/Pcs)

Table 11. World Cellular IoT Module IC Average Price by Region (2027-2032) & (US\$/Pcs)

Table 12. Cellular IoT Module IC Major Market Trends

Table 13. World Cellular IoT Module IC Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World Cellular IoT Module IC Consumption by Region (2021-2026) & (K Pcs)

Table 15. World Cellular IoT Module IC Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World Cellular IoT Module IC Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Cellular IoT Module IC Producers in 2025

Table 18. World Cellular IoT Module IC Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key Cellular IoT Module IC Producers in 2025

Table 20. World Cellular IoT Module IC Average Price by Manufacturer (2021-2026) & (US\$/Pcs)

Table 21. Global Cellular IoT Module IC Company Evaluation Quadrant

Table 22. World Cellular IoT Module IC Industry Rank of Major Manufacturers, Based

on Production Value in 2025

Table 23. Head Office and Cellular IoT Module IC Production Site of Key Manufacturer

Table 24. Cellular IoT Module IC Market: Company Product Type Footprint

Table 25. Cellular IoT Module IC Market: Company Product Application Footprint

Table 26. Cellular IoT Module IC Competitive Factors

Table 27. Cellular IoT Module IC New Entrant and Capacity Expansion Plans

Table 28. Cellular IoT Module IC Mergers & Acquisitions Activity

Table 29. United States VS China Cellular IoT Module IC Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Cellular IoT Module IC Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Cellular IoT Module IC Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Cellular IoT Module IC Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Cellular IoT Module IC Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Cellular IoT Module IC Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Cellular IoT Module IC Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Cellular IoT Module IC Production Market Share (2021-2026)

Table 37. China Based Cellular IoT Module IC Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Cellular IoT Module IC Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Cellular IoT Module IC Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Cellular IoT Module IC Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Cellular IoT Module IC Production Market Share (2021-2026)

Table 42. Rest of World Based Cellular IoT Module IC Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Cellular IoT Module IC Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Cellular IoT Module IC Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Cellular IoT Module IC Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Cellular IoT Module IC Production Market Share (2021-2026)

Table 47. World Cellular IoT Module IC Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Cellular IoT Module IC Production by Type (2021-2026) & (K Pcs)

Table 49. World Cellular IoT Module IC Production by Type (2027-2032) & (K Pcs)

Table 50. World Cellular IoT Module IC Production Value by Type (2021-2026) & (USD Million)

Table 51. World Cellular IoT Module IC Production Value by Type (2027-2032) & (USD Million)

Table 52. World Cellular IoT Module IC Average Price by Type (2021-2026) & (US\$/Pcs)

Table 53. World Cellular IoT Module IC Average Price by Type (2027-2032) & (US\$/Pcs)

Table 54. World Cellular IoT Module IC Production Value by Function, (USD Million), 2021 & 2025 & 2032

Table 55. World Cellular IoT Module IC Production by Function (2021-2026) & (K Pcs)

Table 56. World Cellular IoT Module IC Production by Function (2027-2032) & (K Pcs)

Table 57. World Cellular IoT Module IC Production Value by Function (2021-2026) & (USD Million)

Table 58. World Cellular IoT Module IC Production Value by Function (2027-2032) & (USD Million)

Table 59. World Cellular IoT Module IC Average Price by Function (2021-2026) & (US\$/Pcs)

Table 60. World Cellular IoT Module IC Average Price by Function (2027-2032) & (US\$/Pcs)

Table 61. World Cellular IoT Module IC Production Value by Technical, (USD Million), 2021 & 2025 & 2032

Table 62. World Cellular IoT Module IC Production by Technical (2021-2026) & (K Pcs)

Table 63. World Cellular IoT Module IC Production by Technical (2027-2032) & (K Pcs)

Table 64. World Cellular IoT Module IC Production Value by Technical (2021-2026) & (USD Million)

Table 65. World Cellular IoT Module IC Production Value by Technical (2027-2032) & (USD Million)

Table 66. World Cellular IoT Module IC Average Price by Technical (2021-2026) & (US\$/Pcs)

Table 67. World Cellular IoT Module IC Average Price by Technical (2027-2032) &

(US\$/Pcs)

Table 68. World Cellular IoT Module IC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Cellular IoT Module IC Production by Application (2021-2026) & (K Pcs)

Table 70. World Cellular IoT Module IC Production by Application (2027-2032) & (K Pcs)

Table 71. World Cellular IoT Module IC Production Value by Application (2021-2026) & (USD Million)

Table 72. World Cellular IoT Module IC Production Value by Application (2027-2032) & (USD Million)

Table 73. World Cellular IoT Module IC Average Price by Application (2021-2026) & (US\$/Pcs)

Table 74. World Cellular IoT Module IC Average Price by Application (2027-2032) & (US\$/Pcs)

Table 75. Qualcomm Basic Information, Manufacturing Base and Competitors

Table 76. Qualcomm Major Business

Table 77. Qualcomm Cellular IoT Module IC Product and Services

Table 78. Qualcomm Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Qualcomm Recent Developments/Updates

Table 80. Qualcomm Competitive Strengths & Weaknesses

Table 81. UNISOC Basic Information, Manufacturing Base and Competitors

Table 82. UNISOC Major Business

Table 83. UNISOC Cellular IoT Module IC Product and Services

Table 84. UNISOC Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. UNISOC Recent Developments/Updates

Table 86. UNISOC Competitive Strengths & Weaknesses

Table 87. ASR Basic Information, Manufacturing Base and Competitors

Table 88. ASR Major Business

Table 89. ASR Cellular IoT Module IC Product and Services

Table 90. ASR Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. ASR Recent Developments/Updates

Table 92. ASR Competitive Strengths & Weaknesses

Table 93. MediaTek Basic Information, Manufacturing Base and Competitors

Table 94. MediaTek Major Business

Table 95. MediaTek Cellular IoT Module IC Product and Services

- Table 96. MediaTek Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. MediaTek Recent Developments/Updates
- Table 98. MediaTek Competitive Strengths & Weaknesses
- Table 99. Shanghai Eigencomm Basic Information, Manufacturing Base and Competitors
- Table 100. Shanghai Eigencomm Major Business
- Table 101. Shanghai Eigencomm Cellular IoT Module IC Product and Services
- Table 102. Shanghai Eigencomm Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Shanghai Eigencomm Recent Developments/Updates
- Table 104. Shanghai Eigencomm Competitive Strengths & Weaknesses
- Table 105. Xinyi Information Technology Basic Information, Manufacturing Base and Competitors
- Table 106. Xinyi Information Technology Major Business
- Table 107. Xinyi Information Technology Cellular IoT Module IC Product and Services
- Table 108. Xinyi Information Technology Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Xinyi Information Technology Recent Developments/Updates
- Table 110. Xinyi Information Technology Competitive Strengths & Weaknesses
- Table 111. Sequans Basic Information, Manufacturing Base and Competitors
- Table 112. Sequans Major Business
- Table 113. Sequans Cellular IoT Module IC Product and Services
- Table 114. Sequans Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Sequans Recent Developments/Updates
- Table 116. Sequans Competitive Strengths & Weaknesses
- Table 117. Hisilicon Basic Information, Manufacturing Base and Competitors
- Table 118. Hisilicon Major Business
- Table 119. Hisilicon Cellular IoT Module IC Product and Services
- Table 120. Hisilicon Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Hisilicon Recent Developments/Updates
- Table 122. Hisilicon Competitive Strengths & Weaknesses
- Table 123. Beijing Mlink Technology Inc Basic Information, Manufacturing Base and Competitors
- Table 124. Beijing Mlink Technology Inc Major Business

Table 125. Beijing Mlink Technology Inc Cellular IoT Module IC Product and Services

Table 126. Beijing Mlink Technology Inc Cellular IoT Module IC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Beijing Mlink Technology Inc Recent Developments/Updates

Table 128. Beijing Mlink Technology Inc Competitive Strengths & Weaknesses

Table 129. Global Key Players of Cellular IoT Module IC Upstream (Raw Materials)

Table 130. Global Cellular IoT Module IC Typical Customers

Table 131. Cellular IoT Module IC Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Cellular IoT Module IC Picture

Figure 2. World Cellular IoT Module IC Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Cellular IoT Module IC Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Cellular IoT Module IC Production (2021-2032) & (K Pcs)

Figure 5. World Cellular IoT Module IC Average Price (2021-2032) & (US\$/Pcs)

Figure 6. World Cellular IoT Module IC Production Value Market Share by Region (2021-2032)

Figure 7. World Cellular IoT Module IC Production Market Share by Region (2021-2032)

Figure 8. North America Cellular IoT Module IC Production (2021-2032) & (K Pcs)

Figure 9. Europe Cellular IoT Module IC Production (2021-2032) & (K Pcs)

Figure 10. China Cellular IoT Module IC Production (2021-2032) & (K Pcs)

Figure 11. Japan Cellular IoT Module IC Production (2021-2032) & (K Pcs)

Figure 12. South Korea Cellular IoT Module IC Production (2021-2032) & (K Pcs)

Figure 13. China Taiwan Cellular IoT Module IC Production (2021-2032) & (K Pcs)

Figure 14. Cellular IoT Module IC Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Cellular IoT Module IC Consumption (2021-2032) & (K Pcs)

Figure 17. World Cellular IoT Module IC Consumption Market Share by Region (2021-2032)

Figure 18. United States Cellular IoT Module IC Consumption (2021-2032) & (K Pcs)

Figure 19. China Cellular IoT Module IC Consumption (2021-2032) & (K Pcs)

Figure 20. Europe Cellular IoT Module IC Consumption (2021-2032) & (K Pcs)

Figure 21. Japan Cellular IoT Module IC Consumption (2021-2032) & (K Pcs)

Figure 22. South Korea Cellular IoT Module IC Consumption (2021-2032) & (K Pcs)

Figure 23. ASEAN Cellular IoT Module IC Consumption (2021-2032) & (K Pcs)

Figure 24. India Cellular IoT Module IC Consumption (2021-2032) & (K Pcs)

Figure 25. Producer Shipments of Cellular IoT Module IC by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Cellular IoT Module IC Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Cellular IoT Module IC Markets in 2025

Figure 28. United States VS China: Cellular IoT Module IC Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Cellular IoT Module IC Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Cellular IoT Module IC Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Cellular IoT Module IC Production Market Share 2025

Figure 32. China Based Manufacturers Cellular IoT Module IC Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Cellular IoT Module IC Production Market Share 2025

Figure 34. World Cellular IoT Module IC Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Cellular IoT Module IC Production Value Market Share by Type in 2025

Figure 36. 4G IC

Figure 37. 5G IC

Figure 38. NB-IOT IC

Figure 39. Other

Figure 40. World Cellular IoT Module IC Production Market Share by Type (2021-2032)

Figure 41. World Cellular IoT Module IC Production Value Market Share by Type (2021-2032)

Figure 42. World Cellular IoT Module IC Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 43. World Cellular IoT Module IC Production Value by Function, (USD Million), 2021 & 2025 & 2032

Figure 44. World Cellular IoT Module IC Production Value Market Share by Function in 2025

Figure 45. Processor

Figure 46. Sensor

Figure 47. Other

Figure 48. World Cellular IoT Module IC Production Market Share by Function (2021-2032)

Figure 49. World Cellular IoT Module IC Production Value Market Share by Function (2021-2032)

Figure 50. World Cellular IoT Module IC Average Price by Function (2021-2032) & (US\$/Pcs)

Figure 51. World Cellular IoT Module IC Production Value by Technical, (USD Million), 2021 & 2025 & 2032

Figure 52. World Cellular IoT Module IC Production Value Market Share by Technical in 2025

Figure 53. Baseband Chip

Figure 54. RF Chip

Figure 55. Other

Figure 56. World Cellular IoT Module IC Production Market Share by Technical (2021-2032)

Figure 57. World Cellular IoT Module IC Production Value Market Share by Technical (2021-2032)

Figure 58. World Cellular IoT Module IC Average Price by Technical (2021-2032) & (US\$/Pcs)

Figure 59. World Cellular IoT Module IC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Cellular IoT Module IC Production Value Market Share by Application in 2025

Figure 61. Consumer Electronics

Figure 62. Industrial Control

Figure 63. Automobile

Figure 64. Medical Care

Figure 65. Other

Figure 66. World Cellular IoT Module IC Production Market Share by Application (2021-2032)

Figure 67. World Cellular IoT Module IC Production Value Market Share by Application (2021-2032)

Figure 68. World Cellular IoT Module IC Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 69. Cellular IoT Module IC Industry Chain

Figure 70. Cellular IoT Module IC Procurement Model

Figure 71. Cellular IoT Module IC Sales Model

Figure 72. Cellular IoT Module IC Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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