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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,

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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)

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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

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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

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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?

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