

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

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Abstracts

The global Cellular IoT Communication Module market size is expected to reach \$ 11202 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of cellular IoT communication modules reached 614 million units, with an average price of \$9.15 per unit.

Cellular IoT Communication Module refers to an embedded wireless communication module that integrates cellular baseband processing, radio-frequency transceiver functions, power-management and communication interfaces to provide wide-area network connectivity for IoT devices. The research scope covers modules based on 2G GSM/GPRS, 3G UMTS/HSPA, NB-IoT, LTE-M, LTE Cat 1/Cat 1 bis, LTE Cat 4 and above, 5G RedCap and 5G broadband technologies, including standard modem modules, OpenCPU modules, smart modules and automotive network access device modules. Typical products use LGA/LCC surface-mount, M.2, Mini PCIe or other embedded form factors and may integrate positioning, SIM/eSIM interfaces, security and application-processing functions. Cellular IoT Communication Module products serve as the connectivity layer between terminal hardware and mobile networks, enabling data transmission, device management, positioning, voice or multimedia functions according to application requirements. Major downstream scenarios include smart metering, asset tracking and logistics, automotive telematics, industrial IoT, smart infrastructure, payment terminals, security, healthcare, energy management and connected consumer devices. LTE-M and NB-IoT address low-power wide-area requirements, LTE Cat 1/Cat 1 bis supports cost-sensitive medium-rate applications, while 5G RedCap provides a reduced-complexity 5G option for mid-tier IoT devices.

Industry Chain Analysis

The Cellular IoT Communication Module industry chain begins with cellular modem and baseband chipsets, RF front-end components, power-management ICs, memory, GNSS components, SIM/eSIM technology, passive components and related semiconductor and electronic materials. Module manufacturers integrate these components with firmware, protocol stacks, interfaces and hardware design, and then undertake RF tuning, reliability verification and regional or operator certification. The resulting products range from compact LGA/LCC embedded modules to M.2 and Mini PCIe products, as well as OpenCPU, smart-module and automotive architectures. Module development therefore combines semiconductor sourcing, RF engineering, embedded software, certification and long-term product-support capabilities rather than functioning as simple electronic-component assembly.

Downstream, Cellular IoT Communication Module products are integrated by device OEMs into meters, trackers, industrial controllers, vehicle systems, payment equipment, surveillance products, healthcare devices and other connected terminals, after which mobile operators and IoT connectivity platforms provide network access and device connectivity management. Value creation is increasingly shifting from standalone modem hardware toward complete connectivity platforms combining RF performance, low-power optimization, positioning, embedded computing, secure identity, remote SIM management and software support. Hardware cost competitiveness remains important in high-volume applications, but certification coverage, design reuse, software maturity and long-term support can materially influence the customer's total deployment cost and therefore supplier selection.

Regional Insights

Asia-Pacific has the deepest manufacturing ecosystem for Cellular IoT Communication Module products and a broad mix of NB-IoT, LTE Cat 1/Cat 1 bis, LTE Cat 4 and 5G solutions, supported by large-scale deployment of smart metering, tracking, industrial and consumer IoT equipment. China is particularly important to the commercialization of Cat 1 bis and the development of cost-efficient module architectures, while the wider Asia-Pacific market combines highly developed cellular infrastructure with emerging markets whose legacy-network transition schedules differ considerably. As a result, regional product strategies commonly require coexistence of multiple radio technologies rather than immediate migration to a single standard.

Europe and North America emphasize network certification, LTE-based migration, global roaming and long-term IoT lifecycle management, while growing eSIM adoption strengthens the case for remotely managed international device fleets. The pace of 2G/3G retirement is not uniform globally; some emerging markets maintain legacy networks longer, which sustains demand for multi-mode designs and complicates global SKU standardization. Regional opportunity therefore depends not only on end-device demand but also on spectrum strategy, operator certification, LTE-M/NB-IoT availability, 5G standalone deployment and the timing of legacy-network shutdown. Suppliers with flexible regional band configurations and scalable certification strategies are better positioned to serve internationally deployed IoT products.

Report Scope

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

This report is a detailed and comprehensive analysis of the world market for Cellular IoT Communication Module 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 Communication Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cellular IoT Communication Module total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

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

This report profiles key players in the global Cellular IoT Communication Module 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 Quectel Wireless Solutions, Fibocom Wireless, SIMCom Wireless Solutions, MeiG Smart Technology, Neoway Technology, GosuncnWelink Technology, Telit Cinterion, Murata Manufacturing, Nordic Semiconductor, Sequans Communications, 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 Communication Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Communication Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Cellular IoT Communication Module Market, Segmentation by Type:

2G

3G

4G

5G

NB-IoT

LTE-M

Others

Global Cellular IoT Communication Module Market, Segmentation by

Module Architecture:

Standard Cellular Modem Modules

OpenCPU Cellular Modules

Smart Cellular Modules

Automotive Network Access Device Modules

Global Cellular IoT Communication Module Market, Segmentation by Network Mode:

Single-Mode Modules

Dual-Mode Modules

Multi-Mode Modules

Global Cellular IoT Communication Module Market, Segmentation by Application:

Smart Metering

Asset Tracking and Logistics

Automotive Telematics

Industrial IoT and Automation

Smart City and Infrastructure

Retail and Payment Terminals

Security and Video Surveillance

Healthcare and Wearables

Energy and Utilities

Others

Companies Profiled:

Quectel Wireless Solutions

Fibocom Wireless

SIMCom Wireless Solutions

MeiG Smart Technology

Neoway Technology

GosuncnWelink Technology

Telit Cinterion

Murata Manufacturing

Nordic Semiconductor

Sequans Communications

Semtech

Cavli Wireless

Rolling Wireless

Trasna

Key Questions Answered

1. How big is the global Cellular IoT Communication Module market?
2. What is the demand of the global Cellular IoT Communication Module market?
3. What is the year over year growth of the global Cellular IoT Communication Module market?
4. What is the total value of the global Cellular IoT Communication Module market?
5. Who are the Major Players in the global Cellular IoT Communication Module market?
6. What are the growth factors driving the market demand?

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