

Global Cellular IoT Communication Module 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 Cellular IoT Communication Module market size was valued at US\$ 5786 million in 2025 and is forecast to a readjusted size of US\$ 11202 million by 2032 with a CAGR of 10.0% during review period.

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 is a detailed and comprehensive analysis for global Cellular IoT Communication Module 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 Cellular IoT Communication Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cellular IoT Communication Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cellular IoT Communication Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average

selling prices (US\$/Unit), 2021-2032

Global Cellular IoT Communication Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Cellular IoT Communication Module

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 Cellular IoT Communication Module 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 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.

Cellular IoT Communication Module 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 Segmentation

Market segment by Type

2G

3G

4G

5G

NB-IoT

LTE-M

Others

Market segment by Module Architecture

Standard Cellular Modem Modules

OpenCPU Cellular Modules

Smart Cellular Modules

Automotive Network Access Device Modules

Market segment by Network Mode

Single-Mode Modules

Dual-Mode Modules

Multi-Mode Modules

Market segment 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

Major players covered

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

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)

Chapter Outline

Chapter 1, to describe Cellular IoT Communication Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cellular IoT Communication Module, with price, sales quantity, revenue, and global market share of Cellular IoT Communication Module from 2021 to 2026.

Chapter 3, the Cellular IoT Communication Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cellular IoT Communication Module 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 Cellular IoT Communication Module 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 Cellular IoT Communication Module.

Chapter 14 and 15, to describe Cellular IoT Communication Module sales channel, distributors, customers, research findings and conclusion.

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