

Global 5G 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 5G Cellular IoT Communication Module market size was valued at US\$ 3934 million in 2025 and is forecast to a readjusted size of US\$ 7797 million by 2032 with a CAGR of 10.3% during review period.

Global sales volume of 5G cellular IoT communication modules is projected to reach 419 million units in 2025, with an average price of \$9.12 per unit.

The 5G cellular IoT communication module is the next generation of cellular module, designed specifically for 5G. It integrates key components such as baseband chips, batteries, and power amplifier devices, and provides standard interface function modules to provide ultra-fast data speeds. Device connectivity to support advanced IoT applications requiring real-time communications and high-bandwidth capabilities.

The raw material composition of 5G cellular IoT communication modules is heavily concentrated on semiconductor chips and passive components. Key materials include baseband chips (Baseband/SoC), RF front-end chips (PA, LNA, filters, switches), power management ICs (PMIC), positioning chips (GNSS), memory chips (Flash/DDR), as well as PCBs, resistors, capacitors, inductors, and connectors. The baseband chip serves as the module's "brain," determining network standard support and protocol stack capabilities; the market for high-end 5G baseband chips remains dominated by a few manufacturers such as Qualcomm, MediaTek, UNISOC, and ASR. Due to the requirement for multi-band support and MIMO antenna technology, the number and complexity of RF front-end components are significantly higher than those in 4G modules.

Regarding cost structure, the IoT module industry is characterized by the absolute dominance of raw material costs and extremely low manufacturing overhead. Taking leading domestic module manufacturers as a benchmark, direct material costs account for over 90% of the total; chip-related materials (specifically baseband, RF, and memory chips) make up more than 70% of raw material costs, while PCBs and passive components account for approximately 15%–20%. Conversely, labor and manufacturing overhead combined represent less than 10% of costs. The production cycle for standardized modules is merely 3–5 days; the process is essentially an asset-light assembly model involving "chip integration plus SMT and testing," making economies of scale and supply chain bargaining power the core competitive advantages.

Report Scope

This report is a detailed and comprehensive analysis for global 5G 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 5G 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 5G 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 5G 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 5G 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 5G 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 5G 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.

5G 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

NR

NB-IoT

RedCap

Others

Market segment by Functional Class

Standard Data Module

Smart Module

Automotive-grade Module

Market segment by Package Type

LGA

LCC

M.2

Mini PCIe

MFF2

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 5G Cellular IoT Communication Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 5G Cellular IoT Communication Module, with price, sales quantity, revenue, and global market share of 5G Cellular IoT Communication Module from 2021 to 2026.

Chapter 3, the 5G 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 5G 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 5G 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 5G Cellular IoT Communication Module.

Chapter 14 and 15, to describe 5G Cellular IoT Communication Module sales channel, distributors, customers, research findings and conclusion.

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