

Global 5G Cellular IoT Communication Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 5G Cellular IoT Communication Module market size is expected to reach \$ 7797 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

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 studies the global 5G Cellular IoT Communication Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 5G 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 5G Cellular IoT Communication Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 5G Cellular IoT Communication Module total production and demand, 2021-2032, (K Units)

Global 5G Cellular IoT Communication Module total production value, 2021-2032, (USD Million)

Global 5G Cellular IoT Communication Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 5G Cellular IoT Communication Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 5G Cellular IoT Communication Module domestic production,

consumption, key domestic manufacturers and share

Global 5G Cellular Iot Communication Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 5G Cellular Iot Communication Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 5G Cellular Iot Communication Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 5G 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 5G 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 5G Cellular Iot Communication Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global 5G Cellular IoT Communication Module Market, Segmentation by Type:

NR

NB-IoT

RedCap

Others

Global 5G Cellular IoT Communication Module Market, Segmentation by Functional Class:

Standard Data Module

Smart Module

Automotive-grade Module

Global 5G Cellular Iot Communication Module Market, Segmentation by Package Type:

LGA

LCC

M.2

Mini PCIe

MFF2

Global 5G 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 5G Cellular IoT Communication Module market?
2. What is the demand of the global 5G Cellular IoT Communication Module market?
3. What is the year over year growth of the global 5G Cellular IoT Communication

Module market?

4. What is the total value of the global 5G Cellular IoT Communication Module market?
5. Who are the Major Players in the global 5G Cellular IoT Communication Module market?
6. What are the growth factors driving the market demand?

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