

Global 4G Satellite 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 4G Satellite Communication Module market size was valued at US\$ 226 million in 2025 and is forecast to a readjusted size of US\$ 1824 million by 2032 with a CAGR of 28.7% during review period.

4G/LTE satellite IoT communication modules are embedded wireless modules that combine terrestrial LTE-M, NB-IoT, Cat-M, Cat-NB2, eMTC or EGPRS connectivity with satellite-based non-terrestrial network capability. These modules allow IoT devices to use terrestrial cellular networks where available and fall back to satellite NTN connectivity in remote, maritime, rural or infrastructure-limited areas. They are mainly used for low-power, low-throughput and long-lifecycle IoT applications such as asset tracking, smart metering, environmental monitoring, maritime logistics, pipeline monitoring, agriculture, emergency communication and remote industrial telemetry.

4G/LTE satellite IoT communication modules represent an early but strategically important bridge between terrestrial cellular IoT and non-terrestrial network connectivity. Unlike conventional 4G modules, these products combine LTE-M, NB-IoT, Cat-M, Cat-NB2 or related low-power cellular technologies with satellite NTN capability, allowing IoT devices to remain connected when terrestrial networks are unavailable. 3GPP Release 17 was the first release to include normative NTN requirements, creating a standards-based path for satellite-enabled IoT modules rather than relying only on proprietary satellite protocols. This makes the category especially relevant for remote monitoring, asset tracking, maritime logistics, agriculture, utilities, emergency communication and industrial telemetry.

From the demand side, the value proposition is not high-speed data transmission but coverage resilience. Many IoT devices transmit small amounts of data at long intervals, but they may operate in rural, maritime, offshore, mining, pipeline, logistics or disaster-prone areas where terrestrial cellular coverage is intermittent or unavailable. 4G satellite communication modules address this gap by using terrestrial LTE-M or NB-IoT where coverage exists and satellite NTN as a backup or complementary link. This dual-mode model can reduce the need for separate satellite terminals while preserving the low-power, low-throughput economics of cellular IoT.

The supply structure is led by established wireless module vendors rather than satellite operators. Quectel, Murata, u-blox, SIMCom, Fibocom, Semtech / Sierra Wireless, Telit Cinterion and Nordic Semiconductor are the key companies to track from a module-hardware perspective. Quectel's BG95-S5 is positioned as a 3GPP NTN satellite communication module supporting Rel-17 IoT-NTN, LPWA and integrated GNSS; SIMCom's SIM7070G-HP-S supports Rel-17 IoT-NTN with Cat-M and Cat-NB2; u-blox's SARA-S528NM10 is described as a combined terrestrial and non-terrestrial IoT module; and Murata's Type 1SC-NTN has received Skylo certification for dual-mode cellular and NTN capabilities.

Competition in this market should be analyzed by value-chain layer. Module manufacturers provide the embedded hardware; chipset vendors provide modem and baseband platforms; satellite NTN service providers supply the network; and connectivity platforms manage activation, roaming and commercial service delivery. Companies such as Qualcomm, Sony Altair, Skylo, Monogoto, Sateliot, Myriota and Omnispace are important to the ecosystem, but they should not be counted as core module manufacturers under a narrow module-hardware definition. The main barriers for module vendors are NTN certification, power consumption, RF and antenna design, weak-signal performance, standards compliance, satellite operator compatibility and the ability to manage both terrestrial and satellite network behavior in one embedded product.

Looking ahead, 4G/LTE satellite IoT modules are likely to scale first in low-data-rate, long-lifecycle and remote-deployment use cases. Asset tracking, smart metering, oil and gas infrastructure, remote agriculture, environmental monitoring, maritime logistics and emergency alerting are better early markets than broadband communications. Standardized 3GPP NTN will also make it easier for device OEMs to design global products because the same cellular IoT architecture can increasingly support both terrestrial and satellite coverage. However, adoption will depend on satellite service pricing, antenna integration, certification readiness, network availability and whether

customers see a clear total-cost-of-ownership advantage over proprietary satellite IoT devices.

Over the medium term, the market is expected to evolve from ?NTN-ready? modules and pilot deployments toward certified, multi-network, dual-mode cellular-satellite modules bundled with antennas, reference designs and connectivity services. Chinese module vendors are likely to compete through product breadth, cost execution and fast iteration; European and Japanese suppliers will remain strong in industrial reliability, GNSS integration and global certification; North American ecosystem players will remain important in satellite network access, semiconductor platforms and service orchestration. The long-term winners will be companies that can combine module hardware, standards compliance, satellite network certification, low-power design and global deployment support into a reliable commercial package.

This report is a detailed and comprehensive analysis for global 4G Satellite Communication Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Cellular / NTN Technology 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 4G Satellite Communication Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 4G Satellite 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 4G Satellite Communication Module market size and forecasts, by Cellular / NTN Technology and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 4G Satellite 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 4G Satellite 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 4G Satellite 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 Co., Ltd., Murata Manufacturing Co., Ltd., u-blox AG, SIMCom Wireless Solutions, Fibocom Wireless Inc., Sierra Wireless, Telit Cinterion, Nordic Semiconductor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

4G Satellite Communication Module market is split by Cellular / NTN Technology and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Cellular / NTN Technology, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Cellular / NTN Technology

NB-IoT NTN Modules

LTE-M / eMTC NTN Modules

Dual-mode LTE-M / NB-IoT NTN Modules

Cat-M / Cat-NB2 / EGPRS + NTN Modules

Market segment by Module Integration Level

- NTN-ready Cellular Modules
- Certified Cellular + NTN Modules
- Cellular + NTN + GNSS Modules
- Module + Antenna Reference Design
- Module + Connectivity Bundle

Market segment by Satellite Network Type

- GEO-based 3GPP IoT-NTN Modules
- LEO-based 3GPP IoT-NTN Modules
- Multi-orbit / Provider-agnostic NTN Modules
- Hybrid Cellular-first Satellite-fallback Modules
- Proprietary or Semi-standard Satellite IoT Modules

Market segment by Application

- Asset Tracking and Logistics
- Smart Metering and Utilities
- Remote Industrial Monitoring
- Maritime and Offshore Connectivity
- Agriculture and Environmental Monitoring

Emergency and Resilience Communication

Wearables and Safety Devices

Major players covered

Quectel Wireless Solutions Co., Ltd.

Murata Manufacturing Co., Ltd.

u-blox AG

SIMCom Wireless Solutions

Fibocom Wireless Inc.

Sierra Wireless

Telit Cinterion

Nordic Semiconductor

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 4G Satellite Communication Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4G Satellite Communication Module, with price, sales quantity, revenue, and global market share of 4G Satellite Communication Module from 2021 to 2026.

Chapter 3, the 4G Satellite Communication Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4G Satellite 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 Cellular / NTN Technology and by Application, with sales market share and growth rate by Cellular / NTN Technology, 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 4G Satellite Communication Module market forecast, by regions, by Cellular / NTN Technology, 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 4G Satellite Communication Module.

Chapter 14 and 15, to describe 4G Satellite Communication Module sales channel, distributors, customers, research findings and conclusion.

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