

Global 4G Satellite Communication Module Market Growth 2026-2032

<https://marketpublishers.com/r/GC55B15FAB7CEN.html>

Date: October 2026

Pages: 99

Price: US\$ 3,660.00 (Single User License)

ID: GC55B15FAB7CEN

Abstracts

The global 4G Satellite Communication Module market size is predicted to grow from US\$ 215 million in 2025 to US\$ 1884 million in 2032; it is expected to grow at a CAGR of 30.5% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the “4G Satellite Communication Module Industry Forecast” looks at past sales and reviews total world 4G Satellite Communication Module sales in 2025, providing a comprehensive analysis by region and market sector of projected 4G Satellite Communication Module sales for 2026 through 2032. With 4G Satellite Communication Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 4G Satellite Communication Module industry.

This Insight Report provides a comprehensive analysis of the global 4G Satellite Communication Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 4G Satellite Communication Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 4G Satellite Communication Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 4G Satellite Communication Module and breaks down the forecast by Cellular / NTN Technology, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 4G Satellite Communication Module.

This report presents a comprehensive overview, market shares, and growth opportunities of 4G Satellite Communication Module market by product type,

application, key manufacturers and key regions and countries.

Segmentation 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

Segmentation by Module Integration Level:

NTN-ready Cellular Modules

Certified Cellular + NTN Modules

Cellular + NTN + GNSS Modules

Module + Antenna Reference Design

Module + Connectivity Bundle

Segmentation 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

Segmentation 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

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Quectel Wireless Solutions Co., Ltd.

Murata Manufacturing Co., Ltd.

u-blox AG

SIMCom Wireless Solutions

Fibocom Wireless Inc.

Sierra Wireless

Telit Cinterion

Nordic Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global 4G Satellite Communication Module market?

What factors are driving 4G Satellite Communication Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 4G Satellite Communication Module market opportunities vary by end market size?

How does 4G Satellite Communication Module break out by Cellular / NTN Technology, by Application?

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- 1.2 Years Considered
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