

Demand for Satellite Modem Market is forecasted to reach a value of US \$2.4 billion by 2029

*The Business Research Company's
Satellite Modem Global Market Report
2025 – Market Size, Trends, And Global
Forecast 2025-2034*

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The Business
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Satellite Modem Global Market Report 2025

How Large Will The [Satellite Modem Market](#) Be By 2025?

The growth of the satellite modem market, which is expected to increase from \$1.59 billion in 2024 to \$1.73 billion in 2025 with a CAGR of 8.8%, has been substantial in recent times. The historical growth can be credited to a few key factors: the rising need for high-speed internet connectivity, more use of satellite-based services in remote areas, the growing installation of low Earth orbit (LEO) satellite constellations, an increase in usage of satellite communication for IoT applications, and the growing demand for dependable communication systems in defense and maritime sectors.

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The forecast for the satellite modem market is optimistic,

with a promising expansion expected in the near future. By 2029, the worth of this market is slated to hit \$2.40 billion, growing at a compound annual growth rate (CAGR) of 8.4%. This predicted growth through the forecast period is due to factors such as an upswing in the deployment of satellite constellations, heightened use of hybrid terrestrial and non-terrestrial network solutions, escalating investment in satellite internet infrastructure and space programs, a surge in the need for secure, high-speed data communication, and a rise in the incorporation of satellite modems in IoT and connected mobility applications. Key trends for the forecast period encompass progress in multi-orbit satellite connectivity technologies, the fusion of

artificial intelligence and machine learning for enhanced modem performance, innovation in high-throughput and low-latency data transmission, development of hybrid terrestrial and non-terrestrial network solutions, and growth in secure satellite communication protocols for defense and business applications.

Download a free sample of the satellite modem market report:

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What Are The Major Driving Forces Influencing The Satellite Modem Market Landscape?

The booming need for swift data transfer is likely to accelerate the growth of the satellite modem market. Swift data transfer implies the ability to disseminate vast amounts of data quickly, enabling prompt communication and effective data handling. This need is on the rise because the swift growth of data-heavy applications necessitates quicker and more dependable connections for real-time functions. Satellite modems cater to this growing demand for swift data transfer by establishing reliable, high-capacity connections that allow for uninterrupted connectivity in places where terrestrial networks are weak or non-existent. For example, the National Institute of Information and Communications Technology (NICT), a research institute based in Japan, reported a record data transmission rate of 402 Tb/s in June 2024, using standard commercially available optical fiber. This represented a 25% progress compared to the 321 Tb/s reported in October 2023. Thus, the escalating demand for high-speed data transfer is fostering the expansion of the satellite modem market.

Who Are The Top Players In The Satellite Modem Market?

Major players in the Satellite Modem Global Market Report 2025 include:

- Airbus SE
- General Dynamics Corporation
- Honeywell International Inc.
- Thales Group
- EchoStar Corporation
- L3Harris Technologies Inc.
- Viasat Inc.
- Bharat Electronics Limited (BEL)
- Cobham Satcom Limited
- Hughes Network Systems LLC

What Are The Key Trends And Market Opportunities In The Satellite Modem Sector?

Leading firms in the satellite modem market are prioritizing technological innovation, such as compatible optical communication technology, in order to maintain their competitive edge. This technology allows satellites and ground stations to communicate using light-based signals, delivering greater bandwidth, lower latency, and stronger inter-satellite links than conventional radio frequency techniques. Kepler Communications Inc., a space tech firm from Canada, presented its Space Development Agency (SDA)-compatible optical communication system designed for space data relay constellations in November 2023, as an example. This system is

equipped with high-speed inter-satellite links, rapid data transmission, and exhaustive in-orbit testing of pathfinder systems to validate operational dependability. This progression enables providers of satellite modems to incorporate optical relays for improved data transfer speeds and secure communication, facilitating more intricate satellite tasks and lessening reliance on overcrowded radio frequency bands. The result of this is a strengthened performance of the satellite modem market as a whole.

Market Share And Forecast By Segment In The [Global Satellite Modem Market](#)

The satellite modem market covered in this report is segmented

- 1) By Modem Type: Very Small Aperture Terminal (VSAT) Modems, Broadband Satellite Modems, Military Satellite Modems, Transportable Satellite Modems
- 2) By Data Rate: High Speed, Mid Range, Entry Level
- 3) By Frequency Band: C Band, Ka Band, Ku Band
- 4) By Application: Telecommunications, Broadcasting, Satellite Internet, Military, Aerospace
- 5) By End-Use: Energy And Utilities, Mining, Telecommunications, Marine, Military And Defense, Transportation And Logistics, Oil And Gas, Other End-Uses

Subsegment:

- 1) By Very Small Aperture Terminal (VSAT) Modems: Fixed Very Small Aperture Terminal (VSAT) Modems, Mobile Very Small Aperture Terminal (VSAT) Modems, Hybrid Very Small Aperture Terminal (VSAT) Modems
- 2) By Broadband Satellite Modems: Consumer Broadband Modems, Enterprise Broadband Modems, Maritime Broadband Modems, Aero Or Avionics Broadband Modems
- 3) By Military Satellite Modems: Tactical Satellite Modems, Strategic Satellite Modems, Manpack Or Portable Military Modems
- 4) By Transportable Satellite Modems: Ruggedized Transportable Modems, Rapid Deployable Modems, Trailer-Mounted Transportable Modems

View the full satellite modem market report:

<https://www.thebusinessresearchcompany.com/report/satellite-modem-global-market-report>

Satellite Modem Market Regional Insights

For the year under review in the Satellite Modem Global Market Report 2025, North America stood as the leading region. The report also forecasts that Asia-Pacific will likely be the region with the most rapid growth in the future. All regions assessed in the report include North America, South America, Western Europe, Eastern Europe, Asia-Pacific, Middle East, and Africa.

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