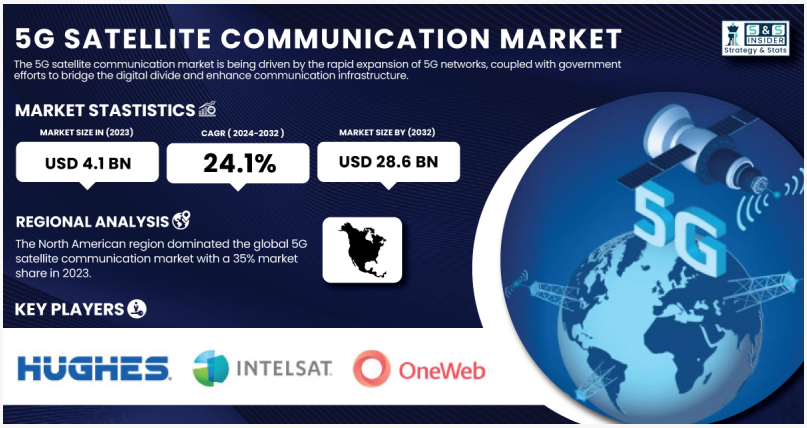
5G Satellite Communication Market to Reach USD 28.6 Billion by 2032|SNS Insider

The 5G Satellite Communication Market was valued at USD 4.1 Bn in 2023 and is projected to reach USD 28.6 Bn by 2032, growing at a 24.1% CAGR from 2024-2032.



AUSTIN, TX, UNITED STATES, February 13, 2025 /EINPresswire.com/ -- The SNS Insider report indicates that the 5G Satellite Communication Market size was valued at USD 4.1 billion in 2023 and is projected to reach USD 28.6 billion by 2032, expanding at a CAGR of 24.1% over the forecast period of 2024-2032. The increasing demand for seamless global connectivity, especially in remote and underserved regions, is driving market growth.

Get Sample Copy of Report: https://www.snsinsider.com/sample-request/4736

Some of Major Keyplayers:

- SES S.A. (O3b mPOWER, SES-17)
- Viasat Inc. (ViaSat-3, ViaSat-2)
- Intelsat (Intelsat 40e, EpicNG)
- Hughes Network Systems (JUPITER System, HughesNet)
- OneWeb (OneWeb Constellation, OneWeb Satellites)
- SpaceX (Starlink, Falcon 9)
- Thales Alenia Space (Space Inspire, Globalstar)
- Lockheed Martin Corporation (AEHF-6, LM 2100)
- Telesat (Telesat Lightspeed, Anik F3)
- Eutelsat Communications (Eutelsat Quantum, KONNECT VHTS)

By Orbit: LEO Segment Dominated the market with significant revenue share in 2023

The low earth orbit segment held the largest market share, owing to the low-latency, high-speed

data transmissions it offers. With LEO satellites stationed at 500-2,000 km at a much shorter distance than their GEO counterparts, signal travel time is faster, providing reliable connectivity. The expansion trend in this domain is also fueled by mega-constellations such as SpaceX, OneWeb, and Amazon Kuiper.

By End User: Commercial Segment Dominates, Consumer Segment Registers Fastest CAGR

The Commercial segment dominated the market, with satellite-based 5G networks anticipated to play a crucial role in enabling global data services dependable connection for industries like aviation, maritime, and logistics for efficient communication and asset-tracking capabilities. Enterprise segments deploying satellite-enabled IoT applications are also on the rise, especially in the global footprint required within oil & gas, agriculture, and smart city industries.

The consumer segment is expected to register the fastest CAGR during the forecast period, as there may be a growing requirement for broadband services powered by satellite for residential users. Mobile satellite terminals, direct-to-device communication, and portable satellite hotspots are witnessing their growths that eventually render 5G satellite connectivity accessible to the average consumer.

By Frequency Bands: Ku band and Ka band (12–18 GHz) Segment Dominates, C-Band Registers Fastest CAGR

The Ku band and Ka band (12–18 GHz) segments dominated the market and accounted for a significant revenue share in 2023, owing to their extensive use for commercial and defense applications. The frequency bands provide higher data rates, improved spectral efficiency, and higher throughput aviation, maritime, and high-speed internet services.

C-Band is anticipated to have the fastest CAGR during the forecast period owing to better stability against weather conditions that telecommunication providers are using in telecommunication backhaul and enterprise connectivity for 5G. This segment is also experiencing growth due to the growing trend of hybrid satellite-terrestrial networks.

By Solution Type: Backhauling and Tower Feed Segment Dominates, Communications on the Move Registers Fastest CAGR

The Backhauling and Tower Feed segment dominated the market and accounted for the major share of the market, as MNOs and telecom providers use satellite connectivity to extend 5G coverage in rural and remote regions. As fiber shortages and terrestrial network constraints escalate, satellite-based backhaul solutions will play an essential part in connecting the unconnected.

The Communications on the Move segment is expected to grow at the fastest CAGR during the forecast period. Owing to the increasing need for connectivity in aviation, maritime, and military

operations, This is further fueled by the growing deployment of satellite-enabled IoT applications in autonomous transportation and logistics.

5G Satellite Communication Market Segmentation:

By Orbit
- Geostationary Earth Orbit (GEO)
- Medium Earth Orbit (MEO)
- Lower Earth Orbit (LEO)
- Others

By Frequency Bands
- S-band (2–4 GHz)
- C-band (4–8 GHz)
- Ku band and Ka band (12–18 GHz)
- Others

By Solution Type
- Trunking and Head-end Feed
- Backhauling and Tower Feed
- Communications on the Move
- Hybrid Multiplay

By End User
- Commercial
- Consumer
- Defence
- Government

Enquiry Before Buy this Report: https://www.snsinsider.com/enquiry/4736

Key Regional Developments: North America Dominates, Asia-Pacific Registers Fastest CAGR

North America dominated the market and accounted for a revenue share of more than 35% of revenue share, Due to large investments in satellite infrastructure, significant government support, and the presence of important players like SpaceX, Amazon Kuiper, and OneWeb. Military-grade 5G satellite application is one of the technology breakthroughs driven by the rapid growth of the region, mainly driven by the U.S. Department of Defense and NASA. At the same time, the rollout of satellite-powered broadband services across rural America further drives the market potential.

The Asia–Pacific is expected to grow at the fastest CAGR during 2024–2032, owing to various government initiatives; a surge in satellite launches; and growing demand for high-speed

internet connectivity. China, India, and Japan are investing heavily in 5G satellite networks which would fuel the growth of their digital ecosystem. The increasing number of smart city projects, space research programs, and defense modernization initiatives are icing on the cake and complimenting the rapid rise of the region.

Recent Developments in the 5G Satellite Communication Market

- January 2024 – SpaceX launched an additional batch of Starlink satellites, expanding its LEO network to support enhanced 5G coverage.
- March 2024 – OneWeb announced a strategic partnership with AT&T to provide satellite-powered 5G backhaul solutions across North America.
- April 2024 – Telesat collaborated with Ericsson to integrate satellite-based 5G networks for improved mobile coverage in rural Canada.

Access Complete Report: https://www.snsinsider.com/reports/5g-satellite-communication-market-4736

Table of Content:

About Us:

SNS Insider is one of the leading market research and consulting agencies that dominates the market research industry globally. Our company's aim is to give clients the knowledge they require in order to function in changing circumstances. In order to give you current, accurate market data, consumer insights, and opinions so that you can make decisions with confidence, we employ a variety of techniques, including surveys, video talks, and focus groups around the world.

Akash Anand
SNS Insider | Strategy and Stats
+1 415-230-0044
email us here
Visit us on social media:
Facebook
X
LinkedIn
Instagram
YouTube
