

Satellite Transponder Market Report by Bandwidth (C-Band, KU-Band, KA-Band, K-Band, and Others), Service (Leasing, Maintenance and Support, and Others), Application (Commercial Communications, Government Communications, Navigation, Remote Sensing, R&D, and Others), and Region 2024-2032

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Abstracts

The global satellite transponder market size reached US\$ 22.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 34.1 Billion by 2032, exhibiting a growth rate (CAGR) of 4.4% during 2024-2032.

A satellite transponder is a wireless communication device that is connected to a satellite for receiving and transmitting radio signals. Upon receiving the signal, it broadcasts it at varying frequencies that assists in the functioning of various identification, location and navigation systems such as GPS. Also, it selects different frequency values for both downlink and uplink to prevent the interference between signals. For instance, the Radio-Frequency Identification Device (RFID) transmits a coded signal upon receiving a request from a control point. The transponder output signal is tracked, and its position is continuously monitored. In addition, the input (receiver) and output (transmitter) frequencies are pre-assigned through which the device can operate over distances of thousands of miles.

Market Trends:

The increasing demand for High Definition Television (HDTV) sets and expansion in the Ku band applications are the key factors driving the growth of the market. The growing demand for new television platforms and rising number of video broadcasting subscribers have led the service providers to utilize satellite transponders to provide

end-to-end HD video transmission. Furthermore, increasing adoption rates of Ku band frequencies for data, video and voice communications have positively impacted the market growth. The Ku band utilizes satellite transponders for high-bandwidth broadcasting and communication to the subscribers. Ku-band transponders are also used extensively for various Very-Small-Aperture Terminals (VSAT), mobile backhaul (MBH) and aeronautical applications. Additionally, the widespread implementation of the device in maritime broadband, in-flight and machine-to-machine (M2M) communications has further favored the market growth. For instance, the Automatic Identification System (AIS) used in ships utilizes transponders to communicate and supplement marine radar.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global satellite transponder market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on bandwidth, service and application.

Breakup by Bandwidth:

- C-Band
- KU-Band
- KA-Band
- K-Band
- Others

Breakup by Service:

- Leasing
- Maintenance and Support
- Others

Breakup by Application:

- Commercial Communications
- Government Communications
- Navigation
- Remote Sensing
- R&D
- Others

Breakup by Region:

North America

Europe

Asia Pacific

Middle East and Africa

Latin America

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being SES S.A., Arabsat, Eutelsat S.A., Intelsat Corporation, Embratel Star One, Thaicom Public Company Limited, Sky Satellite LLC, SKY Perfect JSAT Corporation, HISPASAT S.A., Singtel Group, Telesat, etc.

Key Questions Answered in This Report

1. What was the size of the global satellite transponder market in 2023?
2. What is the expected growth rate of the global satellite transponder market during 2024-2032?
3. What has been the impact of COVID-19 on the global satellite transponder market?
4. What are the key factors driving the global satellite transponder market?
5. What is the breakup of the global satellite transponder market based on the bandwidth?
6. What is the breakup of the global satellite transponder market based on the service?
7. What is the breakup of the global satellite transponder market based on the application?
8. What are the key regions in the global satellite transponder market?
9. Who are the key players/companies in the global satellite transponder market?

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