

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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL SATELLITE TRANSPONDER MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Bandwidth
- 5.5 Market Breakup by Service
- 5.6 Market Breakup by Application
- 5.7 Market Breakup by Region
- 5.8 Market Forecast

6 SWOT ANALYSIS

- 6.1 Overview
- 6.2 Strengths
- 6.3 Weaknesses

6.4 Opportunities

6.5 Threats

7 VALUE CHAIN ANALYSIS

8 PORTER'S FIVE FORCES ANALYSIS

8.1 Overview

8.2 Bargaining Power of Buyers

8.3 Bargaining Power of Suppliers

8.4 Degree of Competition

8.5 Threat of New Entrants

8.6 Threat of Substitutes

9 MARKET BREAKUP BY BANDWIDTH

9.1 C-Band

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 KU-Band

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 KA-Band

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 K-Band

9.4.1 Market Trends

9.4.2 Market Forecast

9.5 Others

9.5.1 Market Trends

9.5.2 Market Forecast

10 MARKET BREAKUP BY SERVICE

10.1 Leasing

10.1.1 Market Trends

10.1.2 Market Forecast

10.2 Maintenance and Support

10.2.1 Market Trends

- 10.2.2 Market Forecast
- 10.3 Others
 - 10.3.1 Market Trends
 - 10.3.2 Market Forecast

11 MARKET BREAKUP BY APPLICATION

- 11.1 Commercial Communications
 - 11.1.1 Market Trends
 - 11.1.2 Market Forecast
- 11.2 Government Communications
 - 11.2.1 Market Trends
 - 11.2.2 Market Forecast
- 11.3 Navigation
 - 11.3.1 Market Trends
 - 11.3.2 Market Forecast
- 11.4 Remote Sensing
 - 11.4.1 Market Trends
 - 11.4.2 Market Forecast
- 11.5 R&D
 - 11.5.1 Market Trends
 - 11.5.2 Market Forecast
- 11.6 Others
 - 11.6.1 Market Trends
 - 11.6.2 Market Forecast

12 MARKET BREAKUP BY REGION

- 12.1 North America
 - 12.1.1 Market Trends
 - 12.1.2 Market Forecast
- 12.2 Europe
 - 12.2.1 Market Trends
 - 12.2.2 Market Forecast
- 12.3 Asia Pacific
 - 12.3.1 Market Trends
 - 12.3.2 Market Forecast
- 12.4 Middle East and Africa
 - 12.4.1 Market Trends

- 12.4.2 Market Forecast
- 12.5 Latin America
 - 12.5.1 Market Trends
 - 12.5.2 Market Forecast

13 COMPETITIVE LANDSCAPE

- 13.1 Market Structure
- 13.2 Key Players
- 13.3 Profiles of Key Players
 - 13.3.1 SES S.A.
 - 13.3.2 Arabsat
 - 13.3.3 Eutelsat S.A.
 - 13.3.4 Intelsat Corporation
 - 13.3.5 Embratel Star One
 - 13.3.6 Thaicom Public Company Limited
 - 13.3.7 Sky Satellite LLC
 - 13.3.8 SKY Perfect JSAT Corporation
 - 13.3.9 HISPASAT S.A.
 - 13.3.10 Singtel Group
 - 13.3.11 Telesat

List Of Tables

LIST OF TABLES

Table 1: Global: Satellite Transponder Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Satellite Transponder Market Forecast: Breakup by Bandwidth (in Billion US\$), 2024-2032

Table 3: Global: Satellite Transponder Market Forecast: Breakup by Service (in Billion US\$), 2024-2032

Table 4: Global: Satellite Transponder Market Forecast: Breakup by Application (in Billion US\$), 2024-2032

Table 5: Global: Satellite Transponder Market Forecast: Breakup by Region (in Billion US\$), 2024-2032

Table 6: Global: Satellite Transponder Market Structure

Table 7: Global: Satellite Transponder Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Satellite Transponder Market: Major Drivers and Challenges
- Figure 2: Global: Satellite Transponder Market: Sales Value (in Billion US\$), 2018-2023
- Figure 3: Global: Satellite Transponder Market: Breakup by Bandwidth (in %), 2023
- Figure 4: Global: Satellite Transponder Market: Breakup by Service (in %), 2023
- Figure 5: Global: Satellite Transponder Market: Breakup by Application (in %), 2023
- Figure 6: Global: Satellite Transponder Market: Breakup by Region (in %), 2023
- Figure 7: Global: Satellite Transponder Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 8: Global: Satellite Transponder Industry: SWOT Analysis
- Figure 9: Global: Satellite Transponder Industry: Value Chain Analysis
- Figure 10: Global: Satellite Transponder Industry: Porter's Five Forces Analysis
- Figure 11: Global: Satellite Transponder (C-Band) Market: Sales Value (in Billion US\$), 2018 & 2023
- Figure 12: Global: Satellite Transponder (C-Band) Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 13: Global: Satellite Transponder (KU-Band) Market: Sales Value (in Billion US\$), 2018 & 2023
- Figure 14: Global: Satellite Transponder (KU-Band) Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 15: Global: Satellite Transponder (KA-Band) Market: Sales Value (in Billion US\$), 2018 & 2023
- Figure 16: Global: Satellite Transponder (KA-Band) Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 17: Global: Satellite Transponder (K-Band) Market: Sales Value (in Billion US\$), 2018 & 2023
- Figure 18: Global: Satellite Transponder (K-Band) Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 19: Global: Satellite Transponder (Other Bandwidths) Market: Sales Value (in Billion US\$), 2018 & 2023
- Figure 20: Global: Satellite Transponder (Other Bandwidths) Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 21: Global: Satellite Transponder (Leasing) Market: Sales Value (in Billion US\$), 2018 & 2023
- Figure 22: Global: Satellite Transponder (Leasing) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 23: Global: Satellite Transponder (Maintenance and Support) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 24: Global: Satellite Transponder (Maintenance and Support) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 25: Global: Satellite Transponder (Other Services) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 26: Global: Satellite Transponder (Other Services) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 27: Global: Satellite Transponder (Commercial Communications) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 28: Global: Satellite Transponder (Commercial Communications) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 29: Global: Satellite Transponder (Government Communications) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 30: Global: Satellite Transponder (Government Communications) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 31: Global: Satellite Transponder (Navigation) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 32: Global: Satellite Transponder (Navigation) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 33: Global: Satellite Transponder (Remote Sensing) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 34: Global: Satellite Transponder (Remote Sensing) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 35: Global: Satellite Transponder (R&D) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 36: Global: Satellite Transponder (R&D) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 37: Global: Satellite Transponder (Other Applications) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 38: Global: Satellite Transponder (Other Applications) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 39: North America: Satellite Transponder Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 40: North America: Satellite Transponder Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 41: Europe: Satellite Transponder Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 42: Europe: Satellite Transponder Market Forecast: Sales Value (in Billion US\$),

2024-2032

Figure 43: Asia Pacific: Satellite Transponder Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 44: Asia Pacific: Satellite Transponder Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 45: Middle East and Africa: Satellite Transponder Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 46: Middle East and Africa: Satellite Transponder Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 47: Latin America: Satellite Transponder Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 48: Latin America: Satellite Transponder Market Forecast: Sales Value (in Billion US\$), 2024-2032

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