

UAV Satellite Communication (SATCOM) Market - A Global and Regional Analysis: Focus on Application, Frequency Band, Drone Type, Component, and Country - Analysis and Forecast, 2023-2033

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Abstracts

Global UAV Satellite Communication (SATCOM) Market Overview

The global UAV satellite communication (SATCOM) market is estimated to reach \$10,725.6 million in 2033 from \$9,365.0 million in 2022, at a growth rate of 1.34% during the forecast period 2023-2033. The global UAV satellite communication (SATCOM) market is expected to be driven by the rise in applications of UAVs across multiple industries, increasing demand for multiband and multifunction antennas, hybrid communication systems, and beyond-visual-line-of-sight (BVLOS) operations.

Market Lifecycle Stage

The global UAV satellite communication (SATCOM) market has gained significant importance over the years 2019-2022. Over the past few years, industry participants have been focusing on technologies such as software-defined radios, integration of SATCOM with AI, and lightweight SATCOM antennae, as these are the critical parameters that increase the flexibility and reliability of UAV communication. Furthermore, enabling beyond-visual-line-of-sight (BVLOS) operations, size, weight, and power (SWaP) requirements for SATCOM terminals and deployment of low Earth orbit (LEO) satellite constellation technologies are driving the global UAV satellite communication (SATCOM) market growth across sectors.

Impact

The global UAV satellite communication (SATCOM) market has reached great advancement in a variety of fields, such as precision agriculture and environmental monitoring, surveillance and mapping, and delivery services. The major challenges in the global UAV satellite communication (SATCOM) market are cybersecurity, regulatory challenges, limited bandwidth, and supply chain challenges. The most pressing challenge facing the drone industry is regulation. With more and more UAVs being deployed and generating increasing amounts of data, there is a growing demand for high-bandwidth communication links. However, there is a finite amount of available bandwidth, which can limit the number of UAVs that can be deployed and the amount of data that can be transmitted. Additionally, the development and deployment of satellite communication systems is another challenge. Moreover, these challenges are impacting the global UAV satellite communication (SATCOM) market. On the other hand, the demand for high-speed, low latency, and secure communication links are the major drivers of growth in the global UAV satellite communication (SATCOM) market.

Market Segmentation

Segmentation 1: by Application

Marine Surveillance

Disaster Management

Surveying and Mapping

Industrial Inspection and Monitoring

Military ISR

Agriculture and Forestry

Civil Surveillance

Cinematography

Based on application, the global UAV satellite communication (SATCOM) market is expected to be dominated by the agriculture and forestry segment during the forecast period.

Segmentation 2: by Drone Type

Fixed Wing

Medium-Altitude Long-Endurance (MALE)

High-Altitude Long-Endurance (HALE)

Mini UAVs

VTOL

Rotary Wing

Single-Rotor

Multi-Rotor

Segmentation 3: by Frequency Band

Ku Band

Ka Band

X Band

C Band

S Band

L Band

Q Band

V Band

The global UAV satellite communication (SATCOM) market by frequency band includes the Ku band, which is expected to dominate the market.

Segmentation 4: by Component

Antennae

Amplifier

Upconverter

Downconverter

Analog-to-Digital Converter

Digital-to-Analog Converter

Modulator

Demodulator

Encoder

Decoder

Scrambler

Descrambler

Multiplexer

Demultiplexer

User Interface

Wiring Solution

Power Unit

Casing

The global UAV satellite communication (SATCOM) market by component includes a user interface, which is expected to dominate the market.

Segmentation 5: by Region

North America - U.S. and Canada

Europe - France, Germany, Russia, U.K., and Rest-of-Europe

Asia-Pacific - China, Japan, India, South Korea, and Rest-of-Asia-Pacific

Rest-of-the-World - Middle East and Africa and South America

Europe accounted for the highest share of 29.88% in the global UAV satellite communication (SATCOM) market by value in 2022, owing to a significant number of companies based in the region.

Recent Developments in the Global UAV Satellite Communication (SATCOM) Market

On January 2023, as part of the Iris air traffic modernization program, Inmarsat Global Limited and the European Space Agency (ESA) signed a contract to develop a tiny satellite terminal for unmanned aerial vehicles (UAVs), clearing the path for their safe integration into commercial airspace.

On December 2022, Inmarsat Global Limited collaborated with LikeAbird, a manufacturer of innovative systems, products, and solutions for the UAV and robotics industries, to drive technology development and reinforce Velaris as the BVLOS service of choice.

In November 2022, Gilat Satellite Networks signed a multi-year, multimillion-dollar strategic agreement with a UAV manufacturer to enable advanced capabilities in high/medium-altitude, long-endurance unmanned aerial vehicles via next-generation BRP60 satellite communication terminals.

In April 2022, SKYTRAC signed a contract with Kea Aerospace to provide a

midband Iridium Certus SATCOM terminal to be installed onboard its HALE UAV platform.

In March 2022, Iridium Communications Inc. partnered with AnsuR Technologies to provide Iridium with its video compression software into Iridium Certus service. The service would provide high-precision communication services for its customers, including emergency responders, global militaries, NGOs, and businesses.

In February 2022, Harvest Technology Group partnered with Inmarsat Global Limited to launch ultra-low bandwidth C2 data and high definition (HD) livestream capabilities to the commercial UAV market in London.

In December 2021, Nordic Unmanned signed a contract with SKYTRAC Systems LTD. for the installation of IMS -350 on a Staaker BG-200 UAV, enabling command and control capabilities during mapping, photogrammetry, LIDAR scanning flight operations and logistical operations.

Demand - Drivers and Limitations

Following are the drivers for the global UAV satellite communication (SATCOM) market:

Evolving SWaP Requirements for UAV SATCOM Terminals

Enabling BVLOS Drone Operations

Increased Deployment of Satellite Constellation

Following are the challenges for the global UAV satellite communication (SATCOM) market:

Cybersecurity

Regulatory Challenges

Dependence on Satellite Availability

Limited Bandwidth

Following are the opportunities for the global UAV satellite communication (SATCOM) market:

Increase in the Bandwidth up to 20 Megabits per Second

How can this report add value to an organization?

Platform/Innovation Strategy: The product segment helps the reader to understand the different types of frequency bands and components utilized in the SATCOM terminal. Moreover, the study provides the reader with a detailed understanding of the different satellite terminal components such as antennae, amplifier, modem, user interface, wiring solution, and casing.

Growth/Marketing Strategy: The global UAV satellite communication (SATCOM) market has seen major development activities by key players operating in the market, such as business expansion activities, contracts, mergers, partnerships, collaborations, and joint ventures. The favored strategy for the companies has been contracts to strengthen their position in the global UAV satellite communication (SATCOM) market. For instance, on January 2023, as part of the Iris air traffic modernization program, Inmarsat Global Limited and the European Space Agency (ESA) signed a contract to develop a tiny satellite terminal for unmanned aerial vehicles (UAVs), clearing the path for their safe integration into commercial airspace. Furthermore, in December 2022, Inmarsat Global Limited collaborated with LikeAbird, a manufacturer of innovative systems, products, and solutions for the UAV and robotics industries, to drive technology development and reinforce Velaris as the BVLOS service of choice.

Competitive Strategy: Key players in the global UAV satellite communication (SATCOM) market analyzed and profiled in the study involve satellite terminal manufacturers that offer antennae, amplifier, modem, user interface, wiring solution, and casing. Moreover, a detailed market share analysis of the players operating in the global UAV satellite communication (SATCOM) market offers advanced technologies such as phased array antennae and hybrid communication systems. Additionally, comprehensive competitive strategies such as contracts, partnerships, agreements, acquisitions, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Key Market Players and Competition Synopsis

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

In 2021, the top segment players leading the market included established players, constituting 68% of the presence in the market. Emerging market participants include startup entities that account for approximately 32% of the presence in the market.

Key Companies Profiled

Honeywell International Inc.

Cobham Aerospace Communications

Thales Group

Get SAT Ltd.

Viasat Inc.

Harvest Technology Group Pty Limited.

SKYTRAC Systems Ltd.

Gilat Satellite Networks

Inmarsat Global Limited

CTECH

Indra

Cowave Communication Technology Co., Ltd

Orbit Communication Systems Ltd.

Hughes Network Systems, LLC

Contents

1 MARKET

1.1 Industry Outlook

1.1.1 Global UAV Satellite Communication (SATCOM) Market: Overview

1.1.1.1 Rise in LEO Satellite Constellation Enabling Global UAV Satellite Communication (SATCOM) Market

1.1.2 Current Technological Trends

1.1.2.1 Increasing Use of Hybrid Communication Systems

1.1.2.2 Advancements in Software-Defined Radios

1.1.2.3 Use of Multiband and Multifunction Antennas

1.1.2.4 Integration of SATCOM with Other Technologies

1.1.3 Key UAV SATCOM Use Case

1.1.3.1 Commercial and Defense

1.1.4 Ongoing Programs

1.1.4.1 Pacis-1

1.1.5 Supply Chain Analysis

1.2 Business Dynamics

1.2.1 Business Drivers

1.2.1.1 Evolving SWaP Requirements for UAV SATCOM Terminals

1.2.1.2 Enabling BVLOS Drone Operations

1.2.1.3 Increased Deployment of Satellite Constellation

1.2.2 Business Challenges

1.2.2.1 Cybersecurity

1.2.2.2 Regulatory Challenges

1.2.2.3 Dependence on Satellite Availability

1.2.2.4 Limited Bandwidth

1.2.3 Business Strategies

1.2.3.1 New Product Launches

1.2.3.2 Partnerships, Collaborations, Agreements, and Contracts

1.2.3.3 Mergers and Acquisitions

1.2.4 Business Opportunities

1.2.4.1 Increase in the Bandwidth up to 20 Megabits per Second

2 APPLICATION

2.1 Global UAV Satellite Communication (SATCOM) Market - by Application

2.1.1 Market Overview

2.1.1.1 Demand Analysis of Global UAV Satellite Communication (SATCOM) Market (by Application), Volume and Value Data

2.1.2 Marine Surveillance

2.1.3 Disaster Management

2.1.4 Surveying and Mapping

2.1.5 Industrial Inspection and Monitoring

2.1.6 Military ISR

2.1.7 Agriculture and Forestry

2.1.8 Civil Surveillance

2.1.9 Cinematography

2.2 Global UAV Satellite Communication (SATCOM) Market - by Drone Type

2.2.1 Market Overview

2.2.1.1 Demand Analysis of Global UAV Satellite Communication (SATCOM) Market (by Drone Type), Value and Volume Data

2.2.2 Fixed Wing

2.2.2.1 Medium-Altitude Long-Endurance (MALE)

2.2.2.2 High-Altitude Long-Endurance (HALE)

2.2.2.3 Mini-UAV

2.2.2.4 Vertical Take-off and Landing (VTOL)

2.2.3 Rotary Wing

2.2.3.1 Single-Rotor

2.2.3.2 Multi-Rotor

3 PRODUCT

3.1 Global UAV Satellite Communication (SATCOM) Market - by Frequency Band

3.1.1 Market Overview

3.1.1.1 Demand Analysis of Global UAV Satellite Communication (SATCOM) Market (by Frequency Band), Value and Volume Data

3.1.2 L Band

3.1.3 S Band

3.1.4 C Band

3.1.5 X Band

3.1.6 Ku Band

3.1.7 Ka Band

3.1.8 Q Band

3.1.9 V Band

3.2 Global UAV Satellite Communication (SATCOM) Market - by Component

3.2.1 Market Overview

3.2.1.1 Demand Analysis of Global UAV Satellite Communication (SATCOM) Market (by Component), Value and Volume Data

- 3.2.2 Antennae
- 3.2.3 Amplifier
- 3.2.4 Upconverter
- 3.2.5 Downconverter
- 3.2.6 Analog-to-Digital Converter
- 3.2.7 Digital-to-Analog Converter
- 3.2.8 Modulator
- 3.2.9 Demodulator
- 3.2.10 Encoder
- 3.2.11 Decoder
- 3.2.12 Scrambler
- 3.2.13 Descrambler
- 3.2.14 Multiplexer
- 3.2.15 Demultiplexer
- 3.2.16 User Interface
- 3.2.17 Wiring Solution
- 3.2.18 Power Unit
- 3.2.19 Casing

4 REGION

4.1 Global UAV Satellite Communication (SATCOM) Market (by Region)

4.2 North America

4.2.1 Market

- 4.2.1.1 Key Manufacturers and Suppliers in North America
- 4.2.1.2 Business Drivers
- 4.2.1.3 Business Challenges

4.2.2 Application

4.2.2.1 North America UAV Satellite Communication (SATCOM) Market (by Application)

4.2.2.2 North America UAV Satellite Communication (SATCOM) Market (by Drone Type)

4.2.3 North America (by Country)

4.2.3.1 U.S.

4.2.3.1.1 Market

4.2.3.1.1.1 Key Manufacturers and Suppliers in the U.S.

4.2.3.1.2 Application

- 4.2.3.1.2.1 U.S. UAV Satellite Communication (SATCOM) Market (by Application)
- 4.2.3.1.2.2 U.S. UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.2.3.2 Canada
 - 4.2.3.2.1 Market
 - 4.2.3.2.1.1 Key Manufacturers and Suppliers in Canada
 - 4.2.3.2.2 Application
 - 4.2.3.2.2.1 Canada UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.2.3.2.2.2 Canada UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.3 Europe
 - 4.3.1 Market
 - 4.3.1.1 Key Manufacturers and Suppliers in Europe
 - 4.3.1.2 Business Drivers
 - 4.3.1.3 Business Challenges
 - 4.3.2 Application
 - 4.3.2.1 Europe UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.3.2.2 Europe UAV Satellite Communication (SATCOM) Market (by Drone Type)
 - 4.3.3 Europe (by Country)
 - 4.3.3.1 France
 - 4.3.3.1.1 Market
 - 4.3.3.1.1.1 Key Manufacturers and Suppliers in France
 - 4.3.3.1.2 Application
 - 4.3.3.1.2.1 France UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.3.3.1.2.2 France UAV Satellite Communication (SATCOM) Market (by Drone Type)
 - 4.3.3.2 Germany
 - 4.3.3.2.1 Market
 - 4.3.3.2.1.1 Key Manufacturers and Suppliers in Germany
 - 4.3.3.2.2 Application
 - 4.3.3.2.2.1 Germany UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.3.3.2.2.2 Germany UAV Satellite Communication (SATCOM) Market (by Drone Type)
 - 4.3.3.3 Russia
 - 4.3.3.3.1 Market
 - 4.3.3.3.1.1 Key Manufacturers and Suppliers in Russia
 - 4.3.3.3.2 Application

- 4.3.3.3.2.1 Russia UAV Satellite Communication (SATCOM) Market (by Application)
- 4.3.3.3.2.2 Russia UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.3.3.4 U.K.
 - 4.3.3.4.1 Market
 - 4.3.3.4.1.1 Key Manufacturers and Suppliers in the U.K.
 - 4.3.3.4.2 Application
 - 4.3.3.4.2.1 U.K. UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.3.3.4.2.2 U.K. UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.3.3.5 Rest-of-Europe
 - 4.3.3.5.1 Market
 - 4.3.3.5.1.1 Key Manufacturers and Service Providers in Rest-of-Europe
 - 4.3.3.5.2 Application
 - 4.3.3.5.2.1 Rest-of-Europe UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.3.3.5.2.2 Rest-of-Europe UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.4 Asia-Pacific
 - 4.4.1 Market
 - 4.4.1.1 Key Manufacturers and Suppliers in Asia-Pacific
 - 4.4.1.2 Business Drivers
 - 4.4.1.3 Business Challenges
 - 4.4.2 Application
 - 4.4.2.1 Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.4.2.2 Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Drone Type)
 - 4.4.3 Asia-Pacific (by Country)
 - 4.4.3.1 China
 - 4.4.3.1.1 Market
 - 4.4.3.1.1.1 Key Manufacturers and Suppliers in China
 - 4.4.3.1.2 Application
 - 4.4.3.1.2.1 China UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.4.3.1.2.2 China UAV Satellite Communication (SATCOM) Market (by Drone Type)
 - 4.4.3.2 India
 - 4.4.3.2.1 Market
 - 4.4.3.2.1.1 Key Manufacturers and Suppliers in India
 - 4.4.3.2.2 Application

- 4.4.3.2.2.1 India UAV Satellite Communication (SATCOM) Market (by Application)
- 4.4.3.2.2.2 India UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.4.3.3 Japan
 - 4.4.3.3.1 Market
 - 4.4.3.3.1.1 Key Manufacturers and Suppliers in Japan
 - 4.4.3.3.2 Application
 - 4.4.3.3.2.1 Japan UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.4.3.3.2.2 Japan UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.4.3.4 South Korea
 - 4.4.3.4.1 Market
 - 4.4.3.4.1.1 Key Manufacturers and Suppliers in South Korea
 - 4.4.3.4.2 Application
 - 4.4.3.4.2.1 South Korea UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.4.3.4.2.2 South Korea UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.4.3.5 Rest-of-Asia-Pacific
 - 4.4.3.5.1 Market
 - 4.4.3.5.1.1 Key Manufacturers and Suppliers in Rest-of-Asia-Pacific
 - 4.4.3.5.2 Application
 - 4.4.3.5.2.1 Rest-of-Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.4.3.5.2.2 Rest-of-Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.4.4 Rest-of-the-World (by Region)
 - 4.4.4.1 Market
 - 4.4.4.2 Key Manufacturers and Service Providers in Rest-of-the-World
 - 4.4.4.3 Business Drivers
 - 4.4.4.4 Business Challenges
- 4.4.5 Application
 - 4.4.5.1 Rest-of-the-World UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.4.5.2 Rest-of-the-World UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.4.6 Rest-of-the-World (by Country)
 - 4.4.6.1 Middle East and Africa
 - 4.4.6.1.1 Market

- 4.4.6.1.1.1 Key Manufacturers and Suppliers in the Middle East and Africa
- 4.4.6.1.2 Application
 - 4.4.6.1.2.1 Middle East and Africa UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.4.6.1.2.2 Middle East and Africa UAV Satellite Communication (SATCOM) Market (by Drone Type)
- 4.4.6.2 South America
 - 4.4.6.2.1 Market
 - 4.4.6.2.1.1 Key Manufacturers and Suppliers in South America
 - 4.4.6.2.2 Application
 - 4.4.6.2.2.1 South America UAV Satellite Communication (SATCOM) Market (by Application)
 - 4.4.6.2.2.2 South America UAV Satellite Communication (SATCOM) Market (by Drone Type)

5 COMPETITIVE BENCHMARKING AND COMPANY PROFILES

- 5.1 Market Share Analysis
- 5.2 Honeywell International Inc.
 - 5.2.1 Company Overview
 - 5.2.1.1 Role of Honeywell International Inc. in Global UAV Satellite Communication (SATCOM) Market
 - 5.2.1.2 Product Portfolio
 - 5.2.2 Business Strategies
 - 5.2.2.1 New Product Developments
 - 5.2.3 Corporate Strategies
 - 5.2.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.2.4 R&D Analysis
 - 5.2.5 Analyst View
- 5.3 Cobham Aerospace Communications
 - 5.3.1 Company Overview
 - 5.3.1.1 Role of Cobham Aerospace Communications in Global UAV Satellite Communication (SATCOM) Market
 - 5.3.1.2 Product Portfolio
 - 5.3.2 Business Strategies
 - 5.3.2.1 New Product Development
 - 5.3.3 Corporate Strategies
 - 5.3.3.1 Partnerships, Collaborations, Agreements, Investments, and Contracts
 - 5.3.4 R&D Analysis

5.3.5 Analyst View

5.4 Thales Group

5.4.1 Company Overview

5.4.1.1 Role of Thales Group in Global UAV Satellite Communication (SATCOM)

Market

5.4.1.2 Product Portfolio

5.4.2 Corporate Strategies

5.4.2.1 Partnership and Collaboration

5.4.3 R&D Analysis

5.4.4 Analyst View

5.5 Get SAT Ltd.

5.5.1 Company Overview

5.5.1.1 Role of Get SAT Ltd. in Global UAV Satellite Communication (SATCOM)

Market

5.5.1.2 Product Portfolio

5.5.2 Business Strategies

5.5.2.1 Product Development

5.5.3 Corporate Strategies

5.5.3.1 Partnership and Collaboration

5.5.4 Analyst View

5.6 Viasat Inc.

5.6.1 Company Overview

5.6.1.1 Role of Viasat Inc. in Global UAV Satellite Communication (SATCOM) Market

5.6.1.2 Product Portfolio

5.6.2 Corporate Strategies

5.6.2.1 Partnership and Collaboration

5.6.3 R&D Analysis

5.6.4 Analyst View

5.7 Harvest Technology Group Pty Limited.

5.7.1 Company Overview

5.7.1.1 Role of Harvest Technology Group Pty. Limited in Global UAV Satellite Communication (SATCOM) Market

5.7.1.2 Product Portfolio

5.7.2 Business Strategies

5.7.2.1 Product Developments

5.7.3 Corporate Strategies

5.7.3.1 Partnership and Collaboration

5.7.4 Analyst View

5.8 SKYTRAC Systems Ltd.

- 5.8.1 Company Overview
 - 5.8.1.1 Role of SKYTRAC Systems LTD. in Global UAV Satellite Communication (SATCOM) Market
 - 5.8.1.2 Product Portfolio
- 5.8.2 Corporate Strategies
 - 5.8.2.1 Partnership and Collaboration
- 5.8.3 Analyst View
- 5.9 Gilat Satellite Networks.
 - 5.9.1 Company Overview
 - 5.9.1.1 Role of Gilat Satellite Networks in Global UAV Satellite Communication (SATCOM) Market
 - 5.9.1.2 Product Portfolio
 - 5.9.2 Corporate Strategies
 - 5.9.2.1 Partnership, Agreement, and Collaboration
 - 5.9.3 R&D Analysis
 - 5.9.4 Analyst View
- 5.1 Inmarsat Global Limited
 - 5.10.1 Company Overview
 - 5.10.1.1 Role of Inmarsat Global Limited in Global UAV Satellite Communication (SATCOM) Market
 - 5.10.1.2 Product Portfolio
 - 5.10.2 Business Strategies
 - 5.10.2.1 Product Developments
 - 5.10.3 Corporate Strategies
 - 5.10.3.1 Partnerships, Contracts, Agreements, and Collaborations
 - 5.10.4 Analyst View
- 5.11 CTECH
 - 5.11.1 Company Overview
 - 5.11.1.1 Role of CTECH in Global UAV Satellite Communication (SATCOM) Market
 - 5.11.1.2 Product Portfolio
 - 5.11.2 Corporate Strategies
 - 5.11.2.1 Partnerships, Contracts, Collaborations, and Agreements
 - 5.11.3 Analyst View
- 5.12 Iridium Communications Inc.
 - 5.12.1 Company Overview
 - 5.12.1.1 Role of Iridium Communications Inc. in Global UAV Satellite Communication (SATCOM) Market
 - 5.12.1.2 Product Portfolio
 - 5.12.2 Corporate Strategies

- 5.12.2.1 Partnerships, Contracts, Collaborations, and Agreements
- 5.12.3 R& D Analysis
- 5.12.4 Analyst View
- 5.13 Indra
 - 5.13.1 Company Overview
 - 5.13.1.1 Role of Indra in Global UAV Satellite Communications (SATCOM) Market
 - 5.13.1.2 Product Portfolio
 - 5.13.2 Business Strategies
 - 5.13.2.1 Product Development
 - 5.13.3 Analyst View
- 5.14 Cowave Communication Technology Co., Ltd
 - 5.14.1 Company Overview
 - 5.14.1.1 Role of Cowave Communication Technology Co., Ltd. in Global UAV Satellite Communications (SATCOM) Market
 - 5.14.1.2 Product Portfolio
 - 5.14.2 Business Strategies
 - 5.14.2.1 Product Development
 - 5.14.3 Analyst View
- 5.15 Orbit Communication Systems Ltd.
 - 5.15.1 Company Overview
 - 5.15.1.1 Role of Orbit Communication Systems Ltd. in global UAV Satellite Communication (SATCOM) Market
 - 5.15.1.2 Product Portfolio
 - 5.15.2 Business Strategies
 - 5.15.2.1 Product Developments
 - 5.15.3 Corporate Strategies
 - 5.15.3.1 Partnerships, Contracts, and Agreements
 - 5.15.3.2 Mergers and Acquisitions
 - 5.15.4 Analyst View
- 5.16 Hughes Network Systems, LLC
 - 5.16.1 Company Overview
 - 5.16.1.1 Role of Hughes Network Systems in Global UAV Satellite Communication (SATCOM) Market
 - 5.16.1.2 Product Portfolio
 - 5.16.2 Corporate Strategy
 - 5.16.2.1 Partnerships and Contracts
 - 5.16.3 Analyst view
- 5.17 Other Key Players
 - 5.17.1 Rangsons Aerospace Pvt Ltd.

5.17.1.1 Company Overview

5.17.2 Thuraya Telecommunications Company

5.17.2.1 Company Overview

6 GROWTH OPPORTUNITIES AND RECOMMENDATIONS

6.1 Growth Opportunities

6.1.1 Growth Opportunity: Phased Array Antennae (PAA)

6.1.1.1 Recommendations

6.1.2 Growth Opportunity: Need for Hybrid SATCOM Terminal

6.1.2.1 Recommendations

7 RESEARCH METHODOLOGY

7.1 Factors for Data Prediction and Modeling

List Of Figures

LIST OF FIGURES

- Figure 1: Global UAV Satellite Communication (SATCOM) Market, \$Million, 2022-2033
- Figure 2: Global UAV Satellite Communication (SATCOM) Market, Units, 2022-2023
- Figure 3: Global UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2023 and 2033
- Figure 4: Global UAV Satellite Communication (SATCOM) Market (by Application), Units, 2023 and 2033
- Figure 5: Global UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2023 and 2033
- Figure 6: Global UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2023 and 2033
- Figure 7: Global UAV Satellite Communication (SATCOM) Market (by Frequency Band), \$Million, 2023 and 2033
- Figure 8: Global UAV Satellite Communication (SATCOM) Market (by Frequency Band), Units, 2023 and 2033
- Figure 9: Global UAV Satellite Communication (SATCOM) Market (by Component), Units, 2023 and 2033
- Figure 10: Global UAV Satellite Communication (SATCOM) Market (by Component), \$Million, 2023 and 2033
- Figure 11: Global UAV Satellite Communication (SATCOM) Market (by Region), \$Million, 2033
- Figure 12: Global UAV Satellite Communication (SATCOM) Market (by Region), Units, 2033
- Figure 13: Global UAV Satellite Communication (SATCOM) Market Coverage
- Figure 14: Supply Chain Analysis for Global UAV Satellite Communication (SATCOM) Market
- Figure 15: Global UAV Satellite Communication (SATCOM) Market, Business Dynamics
- Figure 16: Share of Key Business Strategies and Developments, January 2020-August 2022
- Figure 17: Global UAV Satellite Communication (SATCOM) Market (by Application)
- Figure 18: Global UAV Satellite Communication (SATCOM) Market (by Drone Type)
- Figure 19: Global UAV Satellite Communication (SATCOM) Market (by Frequency Band)
- Figure 20: Global UAV Satellite Communication (SATCOM) Market (by Component)
- Figure 21: Global UAV Satellite Communication (SATCOM) Market Share Analysis (by Company), 2022

- Figure 22: Honeywell International Inc.: R&D Analysis, \$Billion, 2019-2021
- Figure 23: Cobham Aerospace Communications: R&D Analysis, \$Billion, 2019-2021
- Figure 24: Thales Group: R&D Analysis, \$Million, 2019-2021
- Figure 25: Viasat Inc.: R&D Analysis, \$Million, 2019-2022
- Figure 26: Gilat Satellite Networks: R&D Analysis, \$Million, 2019-2021
- Figure 27: Iridium Communications Inc.: R&D Analysis, \$Million, 2019-2021
- Figure 28: Research Methodology
- Figure 29: Top-Down and Bottom-Up Approach
- Figure 30: Assumptions and Limitations

List Of Tables

LIST OF TABLES

Table 1: First Case

Table 2: Second Case

Table 3: New Product Launches, Developments, and Others, January 2020-January 2023

Table 4: Partnerships, Collaborations, Agreements and Contracts, 2019-2022

Table 5: Mergers and Acquisitions, 2019-2023

Table 6: Global UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 7: Global UAV Satellite Communication (SATCOM) Market (by Application), Value, \$Million, 2022-2033

Table 8: Global UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 9: Global UAV Satellite Communication (SATCOM) Market (by Drone Type), Value,\$Million,2022-2033

Table 10: Medium-Altitude Long-Endurance (MALE) Integrated with Satellite Communication

Table 11: Global UAV Satellite Communication (SATCOM) Market (by Frequency Band), Units, 2022-2023

Table 12: Global UAV Satellite Communication (SATCOM) Market (by Frequency Type), \$Million, 2022-2023

Table 13: Global UAV Satellite Communication (SATCOM) Market (by Component), Units, 2022-2033

Table 14: Global UAV Satellite Communication (SATCOM) Market (by Component), \$Million, 2022-2033

Table 15: Global UAV Satellite Communication (SATCOM) Market (by Region), Units, 2022-2033

Table 16: Global UAV Satellite Communication (SATCOM) Market (by Region), \$Million, 2022-2033

Table 17: North America UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 18: North America UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 19: North America UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 20: North America UAV Satellite Communication (SATCOM) Market (by Drone

Type), \$Million, 2022-2033

Table 21: U.S. UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 22: U.S. UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 23: U.S. UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 24: U.S. UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 25: Canada UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 26: Canada UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 27: Canada UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 28: Canada UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 29: Europe UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 30: Europe UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 31: Europe UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 32: Europe UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 33: France UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 34: France UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 35: France UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 36: France UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 37: Germany UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 38: Germany UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 39: Germany UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 40: Germany UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 41: Russia UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 42: Russia UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 43: Russia UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 44: Russia UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 45: U.K. UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 46: U.K. UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 47: U.K. UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 48: U.K. UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 49: Rest-of-Europe UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 50: Rest-of-Europe UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 51: Rest-of-Europe UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 52: Rest-of-Europe UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 53: Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 54: Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 55: Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 56: Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 57: China UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 58: China UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 59: China UAV Satellite Communication (SATCOM) Market (by Drone Type),

Units, 2022-2033

Table 60: China UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 61: India UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 62: India UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 63: India UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 64: India UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 65: Japan UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 66: Japan UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 67: Japan UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 68: Japan UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 69: South Korea UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 70: South Korea UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 71: South Korea UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 72: South Korea UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 73: Rest-of-Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 74: Rest-of-Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 75: Rest-of-Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 76: Rest-of-Asia-Pacific UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 77: Rest-of-the-World UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 78: Rest-of-the-World UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 79: Rest-of-the-World UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 80: Rest-of-the-World UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 81: Middle East and Africa UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 82: Middle East and Africa UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 83: Middle East and Africa UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 84: Middle East and Africa UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 85: South America UAV Satellite Communication (SATCOM) Market (by Application), Units, 2022-2033

Table 86: South America Africa UAV Satellite Communication (SATCOM) Market (by Application), \$Million, 2022-2033

Table 87: South America UAV Satellite Communication (SATCOM) Market (by Drone Type), Units, 2022-2033

Table 88: South America UAV Satellite Communication (SATCOM) Market (by Drone Type), \$Million, 2022-2033

Table 89: Honeywell International Inc.: Product Portfolio

Table 90: Honeywell International Inc.: New Product Developments

Table 91: Honeywell International Inc.: Partnerships, Collaborations, Contracts, and Agreements

Table 92: Cobham Aerospace Communications: Product Portfolio

Table 93: Cobham Aerospace Communications: New Product Development

Table 94: Cobham Aerospace Communications: Partnerships, Collaborations, Agreements, Investments, and Contracts

Table 95: Thales Group: Product Portfolio

Table 96: Thales Group: Partnership and Collaboration

Table 97: Get SAT Ltd.: Product Portfolio

Table 98: Get SAT Ltd.: Product Development

Table 99: Get SAT Ltd.: Partnership and Collaboration

Table 100: Viasat Inc.: Product Portfolio

Table 101: Viasat Inc.: Partnership and Collaboration

Table 102: Harvest Technology Group Pty. Limited: Product Portfolio

Table 103: Harvest Technology Group Pty. Limited: New Product Developments

Table 104: Harvest Technology Group Pty. Limited: Partnership and Collaboration

Table 105: SKYTRAC Systems LTD.: Product Portfolio

Table 106: SKTRAC Systems LTD.: Partnership and Collaboration

Table 107: Gilat Satellite Networks: Product Portfolio

Table 108: Gilat Satellite Networks: Partnership, Agreement, and Collaboration

Table 109: Inmarsat Global Limited: Product Portfolio

Table 110: Inmarsat Global Limited: Product Developments

Table 111: Inmarsat Global Limited: Partnerships, Contracts, Agreements, and Collaborations

Table 112: CTECH: Product Portfolio

Table 113: CTECH: Partnerships, Contracts, Collaborations, and Agreements

Table 114: Iridium Communications Inc.: Product Portfolio

Table 115: Iridium Communications Inc.: Partnerships, Contracts, Collaborations, and Agreements

Table 116: Indra: Product Portfolio

Table 117: Indra: Product Development

Table 118: Cowave Communication Technology Co., Ltd: Product Portfolio

Table 119: Cowave Communication Technology Co., Ltd: Product Development

Table 120: Orbit Communication Systems Ltd.: Product Portfolio

Table 121: Orbit Communication Systems Ltd.: Product Developments

Table 122: Orbit Communication Systems Ltd.: Partnerships, Contracts, and Agreements

Table 123: Orbit Communication Systems Ltd.: Mergers and Acquisitions

Table 124: Hughes Network Systems: Product Portfolio

Table 125: Hughes Network Systems: Partnership and Contracts

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