

# **Military Antenna Market – Global Industry Size, Share, Trends, Opportunity, And Forecast, Segmented By Type (Dipole, Monopole, Horn, Loop, Array, Patch, Parabolic Reflector, Others), By Frequency (High Frequency (Hf) (3–30 Mhz), Very High Frequency (Vhf) (30–300 Mhz), Ultra High Frequency (Uhf) (300 Mhz–3 Ghz), Super High Frequency (Shf) (3–30 Ghz), Extremely High Frequency (Ehf) (30–300 Ghz)), By Platform (Ground-Based, Naval, Airborne, Space), By Application By Region & Competition, 2021-2031F**

<https://marketpublishers.com/r/MCCC6163955EEN.html>

Date: May 2026

Pages: 177

Price: US\$ 4,500.00 (Single User License)

ID: MCCC6163955EEN

## **Abstracts**

The Global Military Antenna Market is projected to expand significantly from USD 4.61 billion in 2025 to USD 6.83 billion by 2031, at a CAGR of 6.77%. These specialized transducers are essential for critical defense functions including secure communications, electronic warfare, surveillance, and navigation across diverse operational environments. Growth is primarily fueled by the urgent global demand for advanced C4ISR systems, the rapid increase in unmanned aerial vehicles, and the strategic shift towards high-frequency satellite communications for resilient connectivity in contested areas. This expansion is further supported by substantial defense spending, which reached a historic \$2,718 billion in 2024, driving investments in next-generation defense electronics. However, market growth faces a significant challenge from the increasing congestion of the electromagnetic spectrum, necessitating complex, expensive cognitive radio technologies to mitigate interference from commercial and adversarial sources, potentially delaying deployments and straining budgets.

## Market Driver

A primary market driver is the rising global defense expenditure on C4ISR systems and associated infrastructure modernization. Nations are accelerating procurement of secure, high-bandwidth antenna systems to support multi-domain operations and decentralized command networks, evidenced by the U.S. DoD's \$21.1 billion FY2025 C4I budget request and large industrial awards like L3Harris's \$999 million MIDS terminals contract. Additionally, the proliferation of Unmanned Aerial Vehicles (UAVs) and autonomous systems is a critical driver, necessitating compact, high-throughput antennas for real-time intelligence transmission. Initiatives like the U.S. Pentagon's "Replicator" program, with approximately \$1 billion invested across FY2024-2025, highlight the demand for low-profile, SWaP-efficient antennas for "swarming" tactics and robust satellite links, pushing innovation beyond traditional manned platforms.

## Market Challenge

The increasing congestion of the electromagnetic spectrum presents a substantial barrier to the Global Military Antenna Market's growth. As military operations demand higher bandwidths for secure data transmission and surveillance, available frequency bands are becoming saturated by expanding commercial telecommunications and civilian space assets, with operational satellites surpassing 11,500 by 2024. This spectral overcrowding mandates the development of highly complex and expensive antenna systems with advanced interference-mitigation capabilities, such as cognitive radio functions. This requirement inflates research and development costs, extends production timelines, strains defense budgets, and reduces the volume of units procurable, effectively diverting capital towards solving interference challenges rather than enabling market expansion.

## Market Trends

A significant market trend is the transition to Active Electronically Scanned Array (AESA) systems, replacing legacy mechanical radars with solid-state, Gallium Nitride-based components. AESA technology offers superior beam agility, allowing simultaneous tracking of hypersonic threats and drone swarms while reducing mechanical failure rates and maintenance, as demonstrated by RTX's Raytheon's \$1.7 billion U.S. Army contract for the Lower Tier Air and Missile Defense Sensor. Equally critical is the integration of advanced anti-jamming and Low Probability of Intercept capabilities, embedding Controlled Reception Pattern Antennas and protected waveforms directly into satellite terminals. This ensures signal integrity in contested

environments, supported by initiatives like the U.S. Space Force's \$37 million Protected Tactical SATCOM-Global payload program, focused on delivering jam-resistant communications.

## Key Market Players

BAE Systems plc

Advent International L.P.

L3Harris Technologies, Inc.

MTI Wireless Edge Ltd.

Northrop Grumman Corporation

Raytheon Technologies Corporation

Rohde & Schwarz GmbH & Co KG

Terma A/S

Thales Group

## Report Scope

In this report, the Global Military Antenna Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Military Antenna Market, By Type

Dipole

Monopole

Horn

Loop

Array

Patch

Parabolic Reflector

Others

#### Military Antenna Market, By Frequency

High Frequency (Hf) (3-30 Mhz)

Very High Frequency (Vhf) (30-300 Mhz)

Ultra High Frequency (Uhf) (300 Mhz-3 Ghz)

Super High Frequency (Shf) (3-30 Ghz)

Extremely High Frequency (Ehf) (30-300 Ghz)

#### Military Antenna Market, By Platform

Ground-Based

Naval

Airborne

Space

#### Military Antenna Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Military Antenna Market.

## **Available Customizations:**

Global Military Antenna Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## **Company Information**

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### 4. VOICE OF CUSTOMER

### 5. GLOBAL MILITARY ANTENNA MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Type (Dipole, Monopole, Horn, Loop, Array, Patch, Parabolic Reflector, Others)
  - 5.2.2. By Frequency (High Frequency (Hf) (3-30 Mhz), Very High Frequency (Vhf) (30-300 Mhz), Ultra High Frequency (Uhf) (300 Mhz-3 Ghz), Super High Frequency

(Shf) (3-30 Ghz), Extremely High Frequency (Ehf) (30-300 Ghz))

5.2.3. By Platform (Ground-Based, Naval, Airborne, Space)

5.2.4. By Region

5.2.5. By Company (2025)

5.3. Market Map

## **6. NORTH AMERICA MILITARY ANTENNA MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Frequency

6.2.3. By Platform

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Military Antenna Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Frequency

6.3.1.2.3. By Platform

6.3.2. Canada Military Antenna Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Frequency

6.3.2.2.3. By Platform

6.3.3. Mexico Military Antenna Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Type

6.3.3.2.2. By Frequency

6.3.3.2.3. By Platform

## **7. EUROPE MILITARY ANTENNA MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Type
  - 7.2.2. By Frequency
  - 7.2.3. By Platform
  - 7.2.4. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Military Antenna Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Type
      - 7.3.1.2.2. By Frequency
      - 7.3.1.2.3. By Platform
  - 7.3.2. France Military Antenna Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Type
      - 7.3.2.2.2. By Frequency
      - 7.3.2.2.3. By Platform
  - 7.3.3. United Kingdom Military Antenna Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Type
      - 7.3.3.2.2. By Frequency
      - 7.3.3.2.3. By Platform
  - 7.3.4. Italy Military Antenna Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Type
      - 7.3.4.2.2. By Frequency
      - 7.3.4.2.3. By Platform
  - 7.3.5. Spain Military Antenna Market Outlook
    - 7.3.5.1. Market Size & Forecast

- 7.3.5.1.1. By Value
- 7.3.5.2. Market Share & Forecast
  - 7.3.5.2.1. By Type
  - 7.3.5.2.2. By Frequency
  - 7.3.5.2.3. By Platform

## **8. ASIA PACIFIC MILITARY ANTENNA MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Type
  - 8.2.2. By Frequency
  - 8.2.3. By Platform
  - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
  - 8.3.1. China Military Antenna Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Type
      - 8.3.1.2.2. By Frequency
      - 8.3.1.2.3. By Platform
  - 8.3.2. India Military Antenna Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Type
      - 8.3.2.2.2. By Frequency
      - 8.3.2.2.3. By Platform
  - 8.3.3. Japan Military Antenna Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Type
      - 8.3.3.2.2. By Frequency
      - 8.3.3.2.3. By Platform
  - 8.3.4. South Korea Military Antenna Market Outlook
    - 8.3.4.1. Market Size & Forecast

- 8.3.4.1.1. By Value
- 8.3.4.2. Market Share & Forecast
  - 8.3.4.2.1. By Type
  - 8.3.4.2.2. By Frequency
  - 8.3.4.2.3. By Platform
- 8.3.5. Australia Military Antenna Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Type
    - 8.3.5.2.2. By Frequency
    - 8.3.5.2.3. By Platform

## **9. MIDDLE EAST & AFRICA MILITARY ANTENNA MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Type
  - 9.2.2. By Frequency
  - 9.2.3. By Platform
  - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Military Antenna Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Type
      - 9.3.1.2.2. By Frequency
      - 9.3.1.2.3. By Platform
  - 9.3.2. UAE Military Antenna Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Type
      - 9.3.2.2.2. By Frequency
      - 9.3.2.2.3. By Platform
  - 9.3.3. South Africa Military Antenna Market Outlook
    - 9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Type

9.3.3.2.2. By Frequency

9.3.3.2.3. By Platform

## **10. SOUTH AMERICA MILITARY ANTENNA MARKET OUTLOOK**

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Type

10.2.2. By Frequency

10.2.3. By Platform

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Military Antenna Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Type

10.3.1.2.2. By Frequency

10.3.1.2.3. By Platform

10.3.2. Colombia Military Antenna Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Type

10.3.2.2.2. By Frequency

10.3.2.2.3. By Platform

10.3.3. Argentina Military Antenna Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Type

10.3.3.2.2. By Frequency

10.3.3.2.3. By Platform

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. GLOBAL MILITARY ANTENNA MARKET: SWOT ANALYSIS**

## **14. PORTER'S FIVE FORCES ANALYSIS**

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

- 15.1. BAE Systems plc
  - 15.1.1. Business Overview
  - 15.1.2. Products & Services
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel
  - 15.1.5. SWOT Analysis
- 15.2. Advent International L.P.
- 15.3. L3Harris Technologies, Inc.
- 15.4. MTI Wireless Edge Ltd.
- 15.5. Northrop Grumman Corporation
- 15.6. Raytheon Technologies Corporation
- 15.7. Rohde & Schwarz GmbH & Co KG
- 15.8. Terma A/S
- 15.9. Thales Group

## **16. STRATEGIC RECOMMENDATIONS**

## 17. ABOUT US & DISCLAIMER

## I would like to order

Product name: Military Antenna Market – Global Industry Size, Share, Trends, Opportunity, And Forecast, Segmented By Type (Dipole, Monopole, Horn, Loop, Array, Patch, Parabolic Reflector, Others), By Frequency (High Frequency (Hf) (3–30 Mhz), Very High Frequency (Vhf) (30–300 Mhz), Ultra High Frequency (Uhf) (300 Mhz–3 Ghz), Super High Frequency (Shf) (3–30 Ghz), Extremely High Frequency (Ehf) (30–300 Ghz)), By Platform (Ground-Based, Naval, Airborne, Space), By Application By Region & Competition, 2021-2031F

Product link: <https://marketpublishers.com/r/MCCC6163955EEN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/MCCC6163955EEN.html>