

Drone Communication Industry Analysis Report 2025: Key Trends, Drivers, and Forecast Insights

The Business Research Company's Drone Communication Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- [Drone](#)

[Communication Market](#) Growth

Forecast: What To Expect By 2025?

In recent years, the size of the drone communication market has markedly expanded. An impressive growth trajectory is predicted, rising from \$3.08 billion in 2024 to \$3.68 billion in 2025. This expansion represents a compound annual growth rate (CAGR) of 19.6%. Underpinning

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this growth during the historical period were several factors, including the implementation of more comprehensive UAV regulatory frameworks, the miniaturization of electronics, expansion of the drone-as-a-service (DaaS) sector, heightened adoption of drones in the military and defense sectors, and the broadening reach of the 4G/LTE network.

The drone communication market is projected to experience significant growth in the coming years, escalating to a value of \$7.45 billion by 2029 with a compound annual growth rate (CAGR) of 19.3%. The

expansion during the forecast phase can be ascribed to the growing need for drone services, rising investments aimed at strengthening secure, a wider acceptance of drones in military activities, and an increased deployment of drones in the delivery and transportation industry. Notable trends in the forecast period are improvements in satellite communication technologies, merging of encrypted communication with AI navigation, enhanced collision evasion and object tracking capabilities, advancement of artificial intelligence and machine learning, and the sophisticated use of autonomous unmanned surveillance.

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What Are Key Factors Driving The Demand In The Global Drone Communication Market?

The surge in security issues and system vulnerabilities are predicted to fuel the expansion of the drone communication market in the future. These vulnerabilities are potential loopholes in a given system which may allow unauthorised access, interference of functions, or theft of critical information by attackers. When it comes to the increase in these vulnerabilities, it's primarily driven by heightened digital connectivity, thereby expanding attack surfaces for potential threats through interconnected systems. Drone communication systems are vulnerable because they transmit confidential data over wireless networks that can be intercepted or affected if they aren't fully secure. For instance, in November 2024, the Australian Cyber Security Centre (ACSC) reported that the Australian Cyber Security Hotline, run by ASD, received over 36,700 calls in the 2023–24 fiscal year, reflecting an increase of 12% from the previous year. As a result, the escalating security issues and system vulnerabilities are fuelling the expansion of the drone communication market.

Who Are The Leading Players In The Drone Communication Market?

Major players in the Drone Communication Global Market Report 2025 include:

- General Dynamics Corporation
- L3Harris Technologies Inc.
- Honeywell International Inc.
- BAE Systems plc
- Thales S.A.
- Elbit Systems Ltd.
- Israel Aerospace Industries Ltd.
- Viasat Inc.
- Aselsan Elektronik Sanayi ve Ticaret A.S.
- Iridium Communications Inc.

What Are Some Emerging Trends In The Drone Communication Market?

Leading organizations in the drone communication sector are concentrating their efforts on the creation of groundbreaking solutions like multi-link bonded LTE communication systems. These solutions aim to boost the reliability of data transmission, expand bandwidth, and maintain continuous connectivity in demanding environments. Multi-link bonded LTE communication systems are cutting-edge communication tools that merge various LTE (4G) network connections from multiple carriers or frequency bands to create a unified, dependable, and high-capacity data stream. In an illustrative scenario, Elsight Ltd., an Israeli technology enterprise, introduced an efficient multi-link bonded LTE communication system for DJI's Matrice 30 and 350 drones in September 2024 via their DroneCommX aftermarket kit. The system combines four LTE modems into a singular bonded link, providing secure, jam-resistant communications facilitated by

advanced encryption protocols like M-TLS and AES-256. This system succeeds DJI's standard 2.4 GHz peer-to-peer (P2P) communication, allows non-line-of-sight (NLOS) flight, and facilitates the continuous transmission of high-bandwidth, encrypted data and video to distant command centers.

Analysis Of Major Segments Driving The Drone Communication Market Growth

The drone communication market covered in this report is segmented –

- 1) By Component: Transmitter, Receiver, Antenna, Data Link
- 2) By Technology: Radio Frequency, Cellular, Satellite, Meshed Network
- 3) By Application: Agriculture, Construction And Mining, Inspection, Oil And Gas, Other Applications
- 4) By End Use: Government And Defense Organizations, Commercial Enterprises, Private Operators

Subsegments:

- 1) By Transmitter: RF Transmitters, Telemetry Transmitters, FPV (First-Person View) Video Transmitters, Digital Signal Transmitters, Satellite-Based Transmitters
- 2) By Receiver: RF Receivers, Telemetry Receivers, GPS Receivers, FPV Video Receivers, Command And Control (C2) Receivers
- 3) By Antenna: Omnidirectional Antennas, Directional Antennas, Patch Antennas, Helical Antennas, Phased Array Antennas
- 4) By Data Link: Line-Of-Sight (LOS) Data Links, Beyond Visual Line-Of-Sight (BVLOS) Data Links, Satellite Communication Links, Radio Frequency (RF) Links, Cellular (4G/5G) Data Links

View the full drone communication market report:

<https://www.thebusinessresearchcompany.com/report/drone-communication-global-market-report>

Which Region Is Expected To Lead The Drone Communication Market By 2025?

For the year under review in the Drone Communication Global Market Report 2025, North America dominated as the most substantial region. Growth expectations project Asia-Pacific as the region with the most rapid expansion in the forecast period. The report encompasses regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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