

Quantum Warfare Market Analysis: Key Trends, Share, Growth Drivers, And Forecast 2025-2034

*The Business Research Company's
Quantum Warfare Global Market Report
2025 – Market Size, Trends, And Forecast
2025-2034*

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[/EINPresswire.com/](#) -- What Is the
Forecasted Growth of the Quantum
Warfare Market?

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factors such as increasing investments in quantum computing by defense agencies, growing demand for quantum-based secure communication systems, escalating cyber threats driving quantum encryption adoption, and the expanding use of quantum sensors for enhanced situational awareness.

What Is the Projected Market Size of Quantum Warfare In
The Next Few Years?

It is anticipated that the quantum warfare market will
continue to see rapid growth in the next few years,

expected to rise to \$2.84 billion in 2029, at a compound annual growth rate CAGR of 18.2%. The growth in the forecasted period can be attributed to factors such as the integration of AI with quantum technologies in military applications, the surging development of quantum radar systems for stealth detection, growing military focus on next-generation computing capabilities, and increasing collaboration between governments and quantum tech firms. Major trends in the forecasted period include advancements in quantum radar systems, deployment of quantum sensing technology, integration of quantum AI in defense analytics, and integration of quantum cloud in military networks.

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What Are Some Of The Driving Factors Behind The Growth Of Quantum Warfare Market?

Increased military capabilities are set to propel the growth of the quantum warfare market moving forward. Military capabilities refer to a nation's ability to effectively deploy and sustain its armed forces using a mix of its personnel, equipment, technology, strategy, and resources to achieve defense and strategic objectives. The increasing military capabilities -- driven by the need for advanced defense technologies to counter emerging digital threats -- are leading nations to invest in quantum warfare solutions that offer superior data security, faster communication, and strategic advantages in modern combat scenarios. Increasing military capabilities can help deter potential threats by signaling to adversaries that any aggression would be met with strong resistance. Quantum warfare enhances military capabilities by enabling ultra-secure communications, advanced sensing, and faster data processing - granting forces a strategic edge in detection, decision-making, defense. In April 2024, the Stockholm International Peace Research Institute SIPRI, a non-government organization based in Sweden, reported that in 2023, global military spending reached \$2,443 billion, up 6.8% in real terms from 2022. The rise in increasing military capabilities will significantly drive the quantum warfare market.

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How Does The Rising Trend Of Cybercrimes Impact The Growth Of The Quantum Warfare Market?

The rise in cybercrimes is expected to fuel the growth of the quantum warfare market going forward. Cybercrime refers to any illegal activity that exploits computers, networks, or digital systems to commit or facilitate offenses such as hacking, fraud, data theft, or online harassment. Cybercrimes are on the rise due to increasing digital dependency, leading to a growing reliance on online platforms for work, banking, communication, and data storage. This dependency provides more entry points and valuable targets for cybercriminals to exploit. Quantum warfare empowers cybercriminals with unprecedented capabilities in data interception and decryption, significantly undermining traditional encryption methods and facilitating the exploitation of critical digital infrastructures. For instance, the Department of Defense Australia reported in November 2023 that during the fiscal year 2022-2023, the Australian Cyber Security Centre received over 94,000 reports of cybercrime, marking a 23% increase from the previous year, 2021-22. Therefore, the rising cybercrimes drive the quantum warfare market.

Which Companies Are Key Players In The Quantum Warfare Market?

Major companies operating in the quantum war fare market include the Lockheed Martin Corporation, RTX Corporation, The Boeing Company, International Business Machines Corporation, Northrop Grumman Corporation, IonQ Inc., QinetiQ Group plc, PsiQuantum Corp.,

ColdQuanta Inc., Quantum Brilliance Pty. Ltd., SandboxAQ Inc., ID Quantique SA, Q-CTRL Pty. Ltd., Rigetti Computing Inc., Zapata Computing Inc., D-Wave Quantum Inc., Quintessence Labs Pty. Ltd., Arqit Quantum Inc., Aliro Technologies Inc., and Crypta Labs Ltd.

What Emerging Trends Are Observed In The Quantum Warfare Market?

Major companies operating in the quantum warfare market are directing their focus towards developing technological advancements like navigation technology to enhance positioning accuracy in GPS-denied environments, improve secure communication systems, and strengthen electronic warfare capabilities. For instance, in March 2025, Q-CTRL, an Australia-based quantum technology company, partnered with AOSense Inc., a US-based company that manufactures atom-optic sensors, to develop a cutting-edge quantum-enabled Inertial Navigation System QuINS. This system offers unprecedented accuracy and GPS independence, making it an ideal solution for military and civilian applications in contested environments. Its resilience and long-term reliability enhance national security and support critical infrastructure by reducing reliance on vulnerable GPS systems.

How Is The Quantum Warfare Market Segmented?

The quantum warfare market is segmented as follows:

By Component: Antenna, Clock, Magnetometer, Radar, Sensor, Other Components

By Technology: Quantum Communication And Cryptography, Quantum Computing And Simulations, Quantum Sensing And Metrology

By Quantum PNT: Navigation, Positioning, Precision Timing, Geolocation

By Application: Land, Naval, Airborne, Space-Based

Sub Segments:

By Antenna: Quantum Radio Frequency Antennas, Quantum-Enhanced Phased Array Antennas, Quantum Radar Antennas

By Clock: Chip-Scale Atomic Clocks CSACs, Quantum Atomic Clocks, Optical Lattice Clocks

By Magnetometer: Optically Pumped Magnetometers, Spin-Exchange Relaxation-Free SERF Magnetometers, SQUID-Based Magnetometers

By Radar: Quantum Radar Systems, LIDAR Enhanced With Quantum Sensing, Quantum Imaging Radar

By Sensor: Quantum Gyroscopes, Quantum Accelerometers, Gravimeters, Quantum Positioning Sensors

By Other Components: Quantum Communication Devices, Quantum Cryptographic Modules, Quantum Processors And Control Units

What Does The Regional Quantum Warfare Market Look Like?

In 2024, North America was the largest regional market for quantum warfare. However, it is anticipated that the fastest-growing region in the quantum warfare market during the forthcoming years will be Asia-Pacific. The regions covered in the quantum warfare market report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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