

Global Quantum Sensors Market Size Study & Forecast, by Product Type (Magnetic Sensors, PAR Quantum Sensors, Atomic Clocks) by Application (Military and Defense, Automotive, Oil and Gas, Healthcare, Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/GF4FF6CB2452EN.html>

Date: April 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GF4FF6CB2452EN

Abstracts

Global Quantum Sensors Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Quantum sensors are devices that utilize the principles of quantum mechanics to measure physical quantities with high precision and sensitivity. These sensors harness quantum phenomena such as superposition and entanglement to achieve performance beyond the capabilities of classical sensors. Some common types of quantum sensors include atomic clocks, magnetometers, gravimeters, and gyroscopes. Moreover, the increasing investments in the development of quantum technologies, the growing use of quantum sensors in the space industry, and increasing research activities in the quantum field are anticipated to create a lucrative demand for the market during the forecast period 2023-2030.

Government investments play a crucial role in supporting the growth of the quantum sensors market by fostering research and development, accelerating technological advancements, and stimulating market adoption. For instance, in January 2023, the launch of Canada's National Quantum Strategy marks a pivotal moment in shaping the nation's trajectory in quantum technologies. With a substantial commitment of USD 360 million outlined in Budget 2021, this strategy is poised to bolster Canada's already prominent position in global quantum research leadership. By nurturing the growth of quantum technologies, fostering the development of innovative companies, and nurturing top-tier talent, the strategy aims to solidify Canada's standing as a powerhouse in the quantum realm. Also, India has committed to investing USD 1 billion

in diverse initiatives spanning the next five years to bolster its expertise in quantum information and meteorology, quantum applications and materials, as well as quantum communications. Additionally, India aims to construct a quantum computer boasting approximately 50 qubits by 2026, aligning with efforts undertaken by several nations including Australia and Israel to promote wider acceptance of this emerging technology. As a result, the supportive government investment for the development of quantum technology is anticipated to support the market growth. Moreover, the rising demand for quantum sensors in the medical sector, and the growing use of quantum sensors for accurate navigation in oceanography and marine applications is anticipated to create a lucrative opportunity for the market. However, the availability of low-cost alternatives, and high deployment and maintenance costs stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Quantum Sensors Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the rising applications of quantum sensors in the military & defence sector, increasing government-led research and development (R&D) initiatives, growing awareness regarding the benefits of quantum technology, and the presence of key market players. Whereas the Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as the expanding automotive industry growth, rising number of research projects related to quantum technologies, and high focus on the deployment of quantum sensors.

Major market players included in this report are:

Apogee Instrument Inc.

M Squared Laser Limited

AOSense Inc.

Biospherical Instruments Inc.

Microchip technology

GWR Instruments Inc.

Spectrum Technologies Inc

Adtran Networks

Robert Bosch GmbH

Microsemi Corporation

Recent Developments in the Market:

In January 2023, Infleqtion, a key player in the global quantum ecosystem, unveiled a strategic partnership aimed at revolutionizing quantum application testing. The company collaborated with World View to leverage its compact quantum technology to offer accelerated and cost-effective testing solutions. This innovative approach, utilizing stratospheric testing, marks a significant advancement in quantum testing methodologies, catering to critical applications like over-the-horizon communications, precision navigation and timing, and hyperspectral sensing. Through the collaboration company expand its market presence and customer base globally.

Global Quantum Sensors Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Product Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product Type:

Magnetic Sensors

PAR Quantum Sensors

Atomic Clocks

By Application:

Military and Defense

Automotive

Oil and Gas

Healthcare

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Quantum Sensors Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Quantum Sensors Market, by Product Type, 2020-2030 (USD Billion)
 - 1.2.3. Quantum Sensors Market, by Application, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL QUANTUM SENSORS MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL QUANTUM SENSORS MARKET DYNAMICS

- 3.1. Quantum Sensors Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Increasing investments in development of quantum technologies
 - 3.1.1.2. Growing use of quantum sensors in space industry
 - 3.1.1.3. Increasing research activities in the quantum field
 - 3.1.2. Market Challenges
 - 3.1.2.1. Availability of low-cost alternatives
 - 3.1.2.2. High deployment and maintenance costs
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Rising demand for quantum sensors in medical sector
 - 3.1.3.2. Growing use of quantum sensors for accurate navigation in oceanography and marine applications

CHAPTER 4. GLOBAL QUANTUM SENSORS MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL QUANTUM SENSORS MARKET, BY PRODUCT TYPE

- 5.1. Market Snapshot
- 5.2. Global Quantum Sensors Market by Product Type, Performance - Potential Analysis
- 5.3. Global Quantum Sensors Market Estimates & Forecasts by Product Type 2020-2030 (USD Billion)
- 5.4. Quantum Sensors Market, Sub Segment Analysis
 - 5.4.1. Magnetic Sensors
 - 5.4.2. PAR Quantum Sensors
 - 5.4.3. Atomic Clocks

CHAPTER 6. GLOBAL QUANTUM SENSORS MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Quantum Sensors Market by Application, Performance - Potential Analysis
- 6.3. Global Quantum Sensors Market Estimates & Forecasts by Application 2020-2030 (USD Billion)

6.4. Quantum Sensors Market, Sub Segment Analysis

- 6.4.1. Military and Defense
- 6.4.2. Automotive
- 6.4.3. Oil and Gas
- 6.4.4. Healthcare
- 6.4.5. Others

CHAPTER 7. GLOBAL QUANTUM SENSORS MARKET, REGIONAL ANALYSIS

7.1. Top Leading Countries

7.2. Top Emerging Countries

7.3. Quantum Sensors Market, Regional Market Snapshot

7.4. North America Quantum Sensors Market

7.4.1. U.S. Quantum Sensors Market

7.4.1.1. Product Type breakdown estimates & forecasts, 2020-2030

7.4.1.2. Application breakdown estimates & forecasts, 2020-2030

7.4.2. Canada Quantum Sensors Market

7.5. Europe Quantum Sensors Market Snapshot

7.5.1. U.K. Quantum Sensors Market

7.5.2. Germany Quantum Sensors Market

7.5.3. France Quantum Sensors Market

7.5.4. Spain Quantum Sensors Market

7.5.5. Italy Quantum Sensors Market

7.5.6. Rest of Europe Quantum Sensors Market

7.6. Asia-Pacific Quantum Sensors Market Snapshot

7.6.1. China Quantum Sensors Market

7.6.2. India Quantum Sensors Market

7.6.3. Japan Quantum Sensors Market

7.6.4. Australia Quantum Sensors Market

7.6.5. South Korea Quantum Sensors Market

7.6.6. Rest of Asia Pacific Quantum Sensors Market

7.7. Latin America Quantum Sensors Market Snapshot

7.7.1. Brazil Quantum Sensors Market

7.7.2. Mexico Quantum Sensors Market

7.8. Middle East & Africa Quantum Sensors Market

7.8.1. Saudi Arabia Quantum Sensors Market

7.8.2. South Africa Quantum Sensors Market

7.8.3. Rest of Middle East & Africa Quantum Sensors Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Company
 - 8.1.2. Company
 - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Apogee Instrument Inc.
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Recent Developments
 - 8.3.2. M Squared Laser Limited
 - 8.3.3. AOSense Inc.
 - 8.3.4. Biospherical Instruments Inc
 - 8.3.5. Microchip technology
 - 8.3.6. GWR Instruments Inc.
 - 8.3.7. Spectrum Technologies Inc
 - 8.3.8. Adtran Networks
 - 8.3.9. Robert Bosch GmbH
 - 8.3.10. Microsemi Corporation

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
- 9.2. Research Attributes
- 9.3. Research Assumption

12 .LIST OF TABLES

TABLE 1. Global Quantum Sensors Market, report scope

TABLE 2. Global Quantum Sensors Market estimates & forecasts by region 2020-2030

(USD Billion)

TABLE 3. Global Quantum Sensors Market estimates & forecasts by Product Type 2020-2030 (USD Billion)

TABLE 4. Global Quantum Sensors Market estimates & forecasts by Application 2020-2030 (USD Billion)

TABLE 5. Global Quantum Sensors Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 6. Global Quantum Sensors Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 7. Global Quantum Sensors Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Quantum Sensors Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Quantum Sensors Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Quantum Sensors Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Quantum Sensors Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Quantum Sensors Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Quantum Sensors Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Quantum Sensors Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. U.S. Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. U.S. Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 17. U.S. Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 18. Canada Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 19. Canada Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. Canada Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. UK Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. UK Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. UK Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. Germany Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. Germany Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. France Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. France Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. Italy Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. Italy Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Spain Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Spain Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. RoE Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. RoE Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 39. China Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. China Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Quantum Sensors Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 42. India Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Brazil Quantum Sensors Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Mexico Quantum Sensors Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Mexico Quantum Sensors Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 62. Mexico Quantum Sensors Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 63. RoLA Quantum Sensors Market estimates & forecasts, 2020-2030 (USD
Billion)

TABLE 64. RoLA Quantum Sensors Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 65. RoLA Quantum Sensors Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Quantum Sensors Market estimates & forecasts, 2020-2030
(USD Billion)

TABLE 67. South Africa Quantum Sensors Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 68. RoMEA Quantum Sensors Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Quantum Sensors
Market

TABLE 70. List of primary sources, used in the study of global Quantum Sensors
Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final
deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Quantum Sensors Market, research methodology
 - FIG 2. Global Quantum Sensors Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Quantum Sensors Market, key trends 2022
 - FIG 5. Global Quantum Sensors Market, growth prospects 2023-2030
 - FIG 6. Global Quantum Sensors Market, porters 5 force model
 - FIG 7. Global Quantum Sensors Market, pest analysis
 - FIG 8. Global Quantum Sensors Market, value chain analysis
 - FIG 9. Global Quantum Sensors Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Quantum Sensors Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Quantum Sensors Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Quantum Sensors Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Quantum Sensors Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Quantum Sensors Market, regional snapshot 2020 & 2030
 - FIG 15. North America Quantum Sensors Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Quantum Sensors Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia Pacific Quantum Sensors Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Quantum Sensors Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Quantum Sensors Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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