

# Global Ultra-Wideband Market to Reach USD 9.46 Billion by 2032

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## Abstracts

The Global Ultra-Wideband (UWB) Market was valued at approximately USD 1.89 billion in 2023 and is projected to expand at a remarkable compound annual growth rate (CAGR) of 19.60% over the forecast period from 2024 to 2032. The rapid proliferation of real-time location systems (RTLS), secure communication protocols, and precise indoor positioning technologies has fueled the widespread adoption of UWB across multiple industries. As enterprises increasingly prioritize high-precision, low-latency, and energy-efficient communication solutions, UWB has emerged as a game-changer, revolutionizing asset tracking, industrial automation, contactless access control, and vehicle connectivity. The rising integration of UWB in consumer electronics, including smartphones, smart wearables, and smart home ecosystems, is further accelerating market growth, creating new avenues for innovation and commercialization.

Driven by advancements in wireless communication, increased investments in IoT applications, and the demand for seamless indoor positioning accuracy, the UWB industry is witnessing exponential growth. Industry leaders are leveraging AI-driven algorithms, machine learning-based analytics, and multi-device interoperability to enhance UWB capabilities, ensuring seamless connectivity across industrial, automotive, and healthcare applications. The technology's ultra-low power consumption and interference resilience position it as a superior alternative to traditional wireless standards like Bluetooth and Wi-Fi for high-precision tracking. However, regulatory constraints, high implementation costs, and spectrum allocation challenges remain critical factors that could hinder large-scale deployment.

The increasing adoption of UWB-enabled asset-tracking solutions, particularly in industrial automation and smart factories, is propelling market expansion. UWB's role in next-generation automotive communication, including keyless entry, collision avoidance,

and vehicle-to-everything (V2X) interactions, is gaining significant traction. Moreover, the technology's integration into healthcare for medical device tracking, remote patient monitoring, and secure hospital access is transforming operational efficiencies and patient safety. With companies focusing on cross-industry collaborations, strategic partnerships, and the development of cost-effective UWB chipsets, the market is poised for sustained growth.

Regionally, North America dominates the Ultra-Wideband market, backed by strong technological infrastructure, extensive adoption of RTLS in healthcare and industrial sectors, and significant R&D investments in wireless communication solutions. The United States is leading the regional market, with major technology giants incorporating UWB in consumer electronics and automotive applications. Europe follows closely, driven by growing demand for precision tracking in smart manufacturing and logistics. Meanwhile, the Asia-Pacific region is anticipated to witness the fastest growth, with China, Japan, and South Korea at the forefront of UWB innovations, propelled by the rapid expansion of smart cities, intelligent transport systems, and advanced industrial automation initiatives.

#### Major Market Players Included in This Report:

Apple Inc.

Samsung Electronics Co., Ltd.

NXP Semiconductors N.V.

Decawave (Qorvo)

Texas Instruments Incorporated

Zebra Technologies Corporation

Sewio Networks

Humatics Corporation

5D Robotics, Inc.

Ubisense Group plc

BeSpoon SAS

Alteros Inc.

Pulse~LINK, Inc.

LitePoint Corporation

Spark Microsystems

The Detailed Segments and Sub-segments of the Market Are Explained Below:

By Application:

Real-Time Location Systems (RTLS)

Imaging

Communication

By Positioning System:

Indoor

Outdoor

By Vertical:

Healthcare

Automotive & Transportation

Manufacturing

Consumer Electronics

Residential

Retail

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America:

Brazil

Mexico

Rest of Latin America

Middle East & Africa:

Saudi Arabia

South Africa

Rest of MEA

Years Considered for the Study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenue and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level insights.

Competitive landscape analysis with information on major players.

Examination of key business strategies and recommendations for future market approaches.

Assessment of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL ULTRA-WIDEBAND MARKET EXECUTIVE SUMMARY**

- 1.1. Global Ultra-Wideband Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Application
  - 1.3.2. By Positioning System
  - 1.3.3. By Vertical
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL ULTRA-WIDEBAND MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory Frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL ULTRA-WIDEBAND MARKET DYNAMICS**

### 3.1. Market Drivers

- 3.1.1. Rapid adoption of RTLS, imaging, and communication solutions
- 3.1.2. Advancements in ultra-low power and high-precision wireless technologies
- 3.1.3. Increasing investments in IoT and smart connectivity initiatives

### 3.2. Market Challenges

- 3.2.1. Regulatory constraints and spectrum allocation issues
- 3.2.2. High implementation costs and integration complexities

### 3.3. Market Opportunities

- 3.3.1. Expansion of asset tracking and industrial automation applications
- 3.3.2. Growth potential in automotive communication and healthcare monitoring
- 3.3.3. Emergence of cost-effective UWB chipsets and cross-industry collaborations

## **CHAPTER 4. GLOBAL ULTRA-WIDEBAND 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
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### 4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### 4.3. Top Investment Opportunity

### 4.4. Top Winning Strategies

### 4.5. Disruptive Trends

### 4.6. Industry Expert Perspective

### 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL ULTRA-WIDEBAND MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

### 5.1. Segment Dashboard



## 5.2. Global Ultra-Wideband Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

### 5.2.1. Real-Time Location Systems (RTLS)

### 5.2.2. Imaging

### 5.2.3. Communication

## **CHAPTER 6. GLOBAL ULTRA-WIDEBAND MARKET SIZE & FORECASTS BY POSITIONING SYSTEM 2022-2032**

### 6.1. Segment Dashboard

## 6.2. Global Ultra-Wideband Market: Positioning System Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

### 6.2.1. Indoor

### 6.2.2. Outdoor

## **CHAPTER 7. GLOBAL ULTRA-WIDEBAND MARKET SIZE & FORECASTS BY VERTICAL 2022-2032**

### 7.1. Segment Dashboard

## 7.2. Global Ultra-Wideband Market: Vertical Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

### 7.2.1. Healthcare

### 7.2.2. Automotive & Transportation

### 7.2.3. Manufacturing

### 7.2.4. Consumer Electronics

### 7.2.5. Residential

### 7.2.6. Retail

## **CHAPTER 8. GLOBAL ULTRA-WIDEBAND MARKET SIZE & FORECASTS BY REGION 2022-2032**

### 8.1. North America UWB Market

#### 8.1.1. U.S. UWB Market

##### 8.1.1.1. Application breakdown size & forecasts, 2022-2032

##### 8.1.1.2. Positioning System breakdown size & forecasts, 2022-2032

##### 8.1.1.3. Vertical breakdown size & forecasts, 2022-2032

#### 8.1.2. Canada UWB Market

### 8.2. Europe UWB Market

#### 8.2.1. U.K. UWB Market

- 8.2.2. Germany UWB Market
- 8.2.3. France UWB Market
- 8.2.4. Spain UWB Market
- 8.2.5. Italy UWB Market
- 8.2.6. Rest of Europe UWB Market
- 8.3. Asia-Pacific UWB Market
  - 8.3.1. China UWB Market
  - 8.3.2. India UWB Market
  - 8.3.3. Japan UWB Market
  - 8.3.4. Australia UWB Market
  - 8.3.5. South Korea UWB Market
  - 8.3.6. Rest of Asia-Pacific UWB Market
- 8.4. Latin America UWB Market
  - 8.4.1. Brazil UWB Market
  - 8.4.2. Mexico UWB Market
  - 8.4.3. Rest of Latin America UWB Market
- 8.5. Middle East & Africa UWB Market
  - 8.5.1. Saudi Arabia UWB Market
  - 8.5.2. South Africa UWB Market
  - 8.5.3. Rest of MEA UWB Market

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

- 9.1. Key Company SWOT Analysis
  - 9.1.1. Apple Inc.
  - 9.1.2. Samsung Electronics Co., Ltd.
  - 9.1.3. NXP Semiconductors N.V.
- 9.2. Top Market Strategies
- 9.3. Company Profiles
  - 9.3.1. Apple Inc.
    - 9.3.1.1. Key Information
    - 9.3.1.2. Overview
    - 9.3.1.3. Financial (Subject to Data Availability)
    - 9.3.1.4. Product Summary
    - 9.3.1.5. Market Strategies
  - 9.3.2. Decawave (Qorvo)
  - 9.3.3. Texas Instruments Incorporated
  - 9.3.4. Zebra Technologies Corporation
  - 9.3.5. Sewio Networks

9.3.6. Humatics Corporation

9.3.7. 5D Robotics, Inc.

9.3.8. Ubisense Group plc

9.3.9. BeSpoon SAS

9.3.10. Alteros Inc.

9.3.11. Pulse~LINK, Inc.

9.3.12. LitePoint Corporation

9.3.13. Spark Microsystems

9.3.14. [Company 14]

9.3.15. [Company 15]

## **CHAPTER 10. RESEARCH PROCESS**

10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

10.2. Research Attributes

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