

GNSS Chip Market Size and Forecast (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Device (Smartphones, Tablets, Personal Navigation Devices, In-Vehicle Systems, and Others), Application (Navigation and Location-Based Services, Mapping and Surveying, Telematics, Timing and Synchronization, and Others), Vertical (Consumer Electronics, Automotive & Transportation, Military & Defense, Marine, and Others), and Geography (North America, Europe, Asia Pacific, Middle East & Africa, and South & Central America)

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Abstracts

The GNSS chip market size was valued at US\$ 4.89 billion in 2022 and is expected to reach US\$ 9.19 billion by 2030; it is estimated to record a CAGR of 8.2% from 2022 to 2030.

The scope of the GNSS chip market report covers North America, Europe, Asia Pacific, Middle East and Africa, South and Central America.

In 2020, Europe held 25.7% of the GNSS chip market share, and Germany accounts for a substantial share in the regional market, followed by the UK and France. Future growth perspectives are promising, as multi-GNSS applications and user uptake in Central and Eastern Europe are expected to increase. In addition, the increasing

penetration in the aviation sector will positively influence the market growth, as flights were designed to use performance-based navigation (PBN), and already more than 460 EGNOS-enabled approaches are operational in Europe. GNSS is the leading means of obtaining position, navigation, and timing (PNT) information at sea. Multi-GNSS solutions are favored, with Europe being the third-largest worldwide market for maritime GNSS devices.

Several European countries have initiated projects to develop advanced UAVs, as the attainment of technology from abroad goes contrary to European industrial interests and compromises the EU's industrial autonomy. The 'Euro drone Project' is one of the major projects in the region backed by the European Defense Agency; the project aims to provide a European MALE UAV by 2025. Germany, France, Italy, and Spain are among the countries that are at the forefront of these developments.

The growth of the GNSS chip market share of Asia Pacific is due to the presence of significant manufacturers in the region. In APAC, the major consumer electronics manufacturers focus on developing innovative products that require recording locations and real-time data for tracking by using various devices such as smartphones, wearable devices, and tablets. Hence, the growing popularity of wearable devices and the ongoing technological advancements in the consumer electronics sector in APAC fuel the growth of the GNSS chip market. Moreover, several companies in the region are engaged in launching satellite positioning chips. For instance, in December 2023, Airoha Technology, specializing in fixed broadband network infrastructure and advanced Artificial Intelligence of Things, launched the AG3335MA satellite positioning chip series. This series passed the AEC-Q100 Grade 2 reliability qualification tests for automotive applications. Additionally, the company successfully integrated this series of chips with its parent company, MediaTek, and its Dimensity auto platform, providing highly integrated solutions and technical testing services to automotive manufacturers worldwide.

Augmented reality (AR) applications rely heavily on accurate and real-time location data, which GNSS chips provide. As AR adoption grows across various sectors such as gaming, retail, and manufacturing, the demand for GNSS chips is likely to upsurge. In addition, AR is transforming GNSS surveying stakeouts through real-time visualization, improved accuracy, and increased efficiency. Also, through the intuitive and immersive experience that augmented reality offers, surveyors can better understand the context and layout of the surveying site. During stakeout activities, this enhanced spatial awareness helps facilitate more informed decision-making. Thus, the combined influence of big data, augmented reality, and other factors is likely to propel the GNSS

chip market growth in the coming years.

GNSS Chip Market Segments:

The GNSS chip market analysis has been carried out by considering the following segments: device, application, and vertical. Based on device, the market is segmented into smartphones, tablets, personal navigation devices, in-vehicle systems, and others. By application, the GNSS chip market is segmented into navigation & location-based services, mapping, surveying, telematics, timing and synchronization, and others. Further, the GNSS chip market, by vertical, is segmented into consumer electronics, automotive & transportation, military & defense, and others. The report includes growth prospects in light of current GNSS chip market trends and driving factors influencing the market growth.

GNSS Chip Market Competitive Landscape and Key Developments

The GNSS chip market report covers the company profiling of major players such as Qualcomm Inc, SkyTraq Technology Inc, Broadcom Inc, Septentrio NV, Trimble Inc, Furuno Electric Co Ltd, MediaTek Inc, STMicroelectronics NV, Skyworks Solutions Inc, u-blox Holding AG. Several other essential GNSS chip market players were analyzed to get a holistic view of the market and its ecosystem. The GNSS chip market forecast can help stakeholders plan their growth strategies.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. GNSS CHIP MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors in the Value Chain

5. GNSS CHIP MARKET – KEY MARKET DYNAMICS

- 5.1 GNSS Chip Market – Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Rising Demand for 5G Network and High-Speed Internet
 - 5.2.2 Growing Use of GNSS Chip in Consumer Electronic Devices
 - 5.2.3 Upsurging Need for Accuracy in Real-Time Data
- 5.3 Market Restraints
 - 5.3.1 Concerns Related to Jamming and Spoofing Attacks
 - 5.3.2 Low Accuracy of Signals in Underground and Indoor Environments
- 5.4 Market Opportunities
 - 5.4.1 Growing Use of IoT Technology in Autonomous Vehicles
 - 5.4.2 Rising Adoption of Technological Advancements such as Big Data and Augmented Reality

5.5 Future Trends

5.5.1 GNSS in UGVs and UAVs

5.6 Impact of Drivers and Restraints:

6. GNSS CHIP MARKET – GLOBAL MARKET ANALYSIS

6.1 GNSS Chip Market Revenue (US\$ Million), 2022–2030

6.2 GNSS Chip Market Forecast Analysis

7. GNSS CHIP MARKET ANALYSIS – BY DEVICE

7.1 Smartphones

7.1.1 Overview

7.1.2 Smartphones: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

7.2 Tablets

7.2.1 Overview

7.2.2 Tablets: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

7.3 Personal Navigation Devices

7.3.1 Overview

7.3.2 Personal Navigation Devices: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

7.4 In-Vehicle systems

7.4.1 Overview

7.4.2 In-Vehicle systems: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

7.5 Others

7.5.1 Overview

7.5.2 Others: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

8. GNSS CHIP MARKET ANALYSIS – BY APPLICATION

8.1 Navigation and Location-Based Services

8.1.1 Overview

8.1.2 Navigation and Location-Based Services: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

8.2 Mapping and Surveying

8.2.1 Overview

8.2.2 Mapping and Surveying: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

8.3 Telematics

8.3.1 Overview

8.3.2 Telematics: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

8.4 Timing and Synchronization

8.4.1 Overview

8.4.2 Timing and Synchronization: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

9. GNSS CHIP MARKET ANALYSIS – BY VERTICAL

9.1 Consumer Electronics

9.1.1 Overview

9.1.2 Consumer Electronics: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

9.2 Automotive and Transportation

9.2.1 Overview

9.2.2 Automotive and Transportation: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

9.3 Military and Defense

9.3.1 Overview

9.3.2 Military and Defense: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

9.4 Marine

9.4.1 Overview

9.4.2 Marine: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

9.5 Others

9.5.1 Overview

9.5.2 Others: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10. GNSS CHIP MARKET – GEOGRAPHICAL ANALYSIS

10.1 Overview

10.2 North America

10.2.1 North America GNSS Chip Market Overview

10.2.2 North America: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.2.3 North America: GNSS Chip Market Breakdown, by Device

10.2.3.1 North America: GNSS Chip Market – Revenue and Forecast Analysis – by Device

10.2.4 North America: GNSS Chip Market Breakdown, by Application

10.2.4.1 North America: GNSS Chip Market – Revenue and Forecast Analysis – by Application

10.2.5 North America: GNSS Chip Market Breakdown, by Vertical

10.2.5.1 North America: GNSS Chip Market – Revenue and Forecast Analysis – by Vertical

10.2.6 North America: GNSS Chip Market – Revenue and Forecast Analysis – by Country

10.2.6.1 North America: GNSS Chip Market – Revenue and Forecast Analysis – by Country

10.2.6.2 United States: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.2.6.2.1 United States: GNSS Chip Market Breakdown, by Device

10.2.6.2.2 United States: GNSS Chip Market Breakdown, by Application

10.2.6.2.3 United States: GNSS Chip Market Breakdown, by Vertical

10.2.6.3 Canada: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.2.6.3.1 Canada: GNSS Chip Market Breakdown, by Device

10.2.6.3.2 Canada: GNSS Chip Market Breakdown, by Application

10.2.6.3.3 Canada: GNSS Chip Market Breakdown, by Vertical

10.2.6.4 Mexico: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.2.6.4.1 Mexico: GNSS Chip Market Breakdown, by Device

10.2.6.4.2 Mexico: GNSS Chip Market Breakdown, by Application

10.2.6.4.3 Mexico: GNSS Chip Market Breakdown, by Vertical

10.3 Europe

10.3.1 Europe GNSS Chip Market Overview

10.3.2 Europe: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.3.3 Europe: GNSS Chip Market Breakdown, by Device

10.3.3.1 Europe: GNSS Chip Market – Revenue and Forecast Analysis – by Device

10.3.4 Europe: GNSS Chip Market Breakdown, by Application

10.3.4.1 Europe: GNSS Chip Market – Revenue and Forecast Analysis – by Application

10.3.5 Europe: GNSS Chip Market Breakdown, by Vertical

10.3.5.1 Europe: GNSS Chip Market – Revenue and Forecast Analysis – by Vertical

10.3.6 Europe: GNSS Chip Market – Revenue and Forecast Analysis – by Country

10.3.6.1 Europe: GNSS Chip Market – Revenue and Forecast Analysis – by Country

10.3.6.2 Germany: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

- 10.3.6.2.1 Germany: GNSS Chip Market Breakdown, by Device
- 10.3.6.2.2 Germany: GNSS Chip Market Breakdown, by Application
- 10.3.6.2.3 Germany: GNSS Chip Market Breakdown, by Vertical
- 10.3.6.3 France: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)
 - 10.3.6.3.1 France: GNSS Chip Market Breakdown, by Device
 - 10.3.6.3.2 France: GNSS Chip Market Breakdown, by Application
 - 10.3.6.3.3 France: GNSS Chip Market Breakdown, by Vertical
- 10.3.6.4 Italy: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)
 - 10.3.6.4.1 Italy: GNSS Chip Market Breakdown, by Device
 - 10.3.6.4.2 Italy: GNSS Chip Market Breakdown, by Application
 - 10.3.6.4.3 Italy: GNSS Chip Market Breakdown, by Vertical
- 10.3.6.5 United Kingdom: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)
 - 10.3.6.5.1 United Kingdom: GNSS Chip Market Breakdown, by Device
 - 10.3.6.5.2 United Kingdom: GNSS Chip Market Breakdown, by Application
 - 10.3.6.5.3 United Kingdom: GNSS Chip Market Breakdown, by Vertical
- 10.3.6.6 Russia: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)
 - 10.3.6.6.1 Russia: GNSS Chip Market Breakdown, by Device
 - 10.3.6.6.2 Russia: GNSS Chip Market Breakdown, by Application
 - 10.3.6.6.3 Russia: GNSS Chip Market Breakdown, by Vertical
- 10.3.6.7 Rest of Europe: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)
 - 10.3.6.7.1 Rest of Europe: GNSS Chip Market Breakdown, by Device
 - 10.3.6.7.2 Rest of Europe: GNSS Chip Market Breakdown, by Application
 - 10.3.6.7.3 Rest of Europe: GNSS Chip Market Breakdown, by Vertical
- 10.4 Asia Pacific
 - 10.4.1 Asia Pacific GNSS Chip Market Overview
 - 10.4.2 Asia Pacific: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)
 - 10.4.3 Asia Pacific: GNSS Chip Market Breakdown, by Device
 - 10.4.3.1 Asia Pacific: GNSS Chip Market – Revenue and Forecast Analysis – by Device
 - 10.4.4 Asia Pacific: GNSS Chip Market Breakdown, by Application
 - 10.4.4.1 Asia Pacific: GNSS Chip Market – Revenue and Forecast Analysis – by Application
 - 10.4.5 Asia Pacific: GNSS Chip Market Breakdown, by Vertical
 - 10.4.5.1 Asia Pacific: GNSS Chip Market – Revenue and Forecast Analysis – by Vertical
 - 10.4.6 Asia Pacific: GNSS Chip Market – Revenue and Forecast Analysis – by Country
 - 10.4.6.1 Asia Pacific: GNSS Chip Market – Revenue and Forecast Analysis – by

Country

10.4.6.2 China: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.4.6.2.1 China: GNSS Chip Market Breakdown, by Device

10.4.6.2.2 China: GNSS Chip Market Breakdown, by Application

10.4.6.2.3 China: GNSS Chip Market Breakdown, by Vertical

10.4.6.3 Japan: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.4.6.3.1 Japan: GNSS Chip Market Breakdown, by Device

10.4.6.3.2 Japan: GNSS Chip Market Breakdown, by Application

10.4.6.3.3 Japan: GNSS Chip Market Breakdown, by Vertical

10.4.6.4 South Korea: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.4.6.4.1 South Korea: GNSS Chip Market Breakdown, by Device

10.4.6.4.2 South Korea: GNSS Chip Market Breakdown, by Application

10.4.6.4.3 South Korea: GNSS Chip Market Breakdown, by Vertical

10.4.6.5 India: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.4.6.5.1 India: GNSS Chip Market Breakdown, by Device

10.4.6.5.2 India: GNSS Chip Market Breakdown, by Application

10.4.6.5.3 India: GNSS Chip Market Breakdown, by Vertical

10.4.6.6 Australia: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.4.6.6.1 Australia: GNSS Chip Market Breakdown, by Device

10.4.6.6.2 Australia: GNSS Chip Market Breakdown, by Application

10.4.6.6.3 Australia: GNSS Chip Market Breakdown, by Vertical

10.4.6.7 Rest of APAC: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.4.6.7.1 Rest of APAC: GNSS Chip Market Breakdown, by Device

10.4.6.7.2 Rest of APAC: GNSS Chip Market Breakdown, by Application

10.4.6.7.3 Rest of APAC: GNSS Chip Market Breakdown, by Vertical

10.5 Middle East and Africa

10.5.1 Middle East and Africa GNSS Chip Market Overview

10.5.2 Middle East and Africa: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.5.3 Middle East and Africa: GNSS Chip Market Breakdown, by Device

10.5.3.1 Middle East and Africa: GNSS Chip Market – Revenue and Forecast Analysis – by Device

10.5.4 Middle East and Africa: GNSS Chip Market Breakdown, by Application

10.5.4.1 Middle East and Africa: GNSS Chip Market – Revenue and Forecast Analysis – by Application

10.5.5 Middle East and Africa: GNSS Chip Market Breakdown, by Vertical

10.5.5.1 Middle East and Africa: GNSS Chip Market – Revenue and Forecast

Analysis – by Vertical

10.5.6 Middle East and Africa: GNSS Chip Market – Revenue and Forecast Analysis – by Country

10.5.6.1 Middle East and Africa: GNSS Chip Market – Revenue and Forecast Analysis – by Country

10.5.6.2 Saudi Arabia: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.5.6.2.1 Saudi Arabia: GNSS Chip Market Breakdown, by Device

10.5.6.2.2 Saudi Arabia: GNSS Chip Market Breakdown, by Application

10.5.6.2.3 Saudi Arabia: GNSS Chip Market Breakdown, by Vertical

10.5.6.3 United Arab Emirates: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.5.6.3.1 United Arab Emirates: GNSS Chip Market Breakdown, by Device

10.5.6.3.2 United Arab Emirates: GNSS Chip Market Breakdown, by Application

10.5.6.3.3 United Arab Emirates: GNSS Chip Market Breakdown, by Vertical

10.5.6.4 South Africa: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.5.6.4.1 South Africa: GNSS Chip Market Breakdown, by Device

10.5.6.4.2 South Africa: GNSS Chip Market Breakdown, by Application

10.5.6.4.3 South Africa: GNSS Chip Market Breakdown, by Vertical

10.5.6.5 Rest of Middle East and Africa: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.5.6.5.1 Rest of Middle East and Africa: GNSS Chip Market Breakdown, by Device

10.5.6.5.2 Rest of Middle East and Africa: GNSS Chip Market Breakdown, by Application

10.5.6.5.3 Rest of Middle East and Africa: GNSS Chip Market Breakdown, by Vertical

10.6 South and Central America

10.6.1 South and Central America GNSS Chip Market Overview

10.6.2 South and Central America: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.6.3 South and Central America: GNSS Chip Market Breakdown, by Device

10.6.3.1 South and Central America: GNSS Chip Market – Revenue and Forecast Analysis – by Device

10.6.4 South and Central America: GNSS Chip Market Breakdown, by Application

10.6.4.1 South and Central America: GNSS Chip Market – Revenue and Forecast Analysis – by Application

10.6.5 South and Central America: GNSS Chip Market Breakdown, by Vertical

10.6.5.1 South and Central America: GNSS Chip Market – Revenue and Forecast Analysis – by Vertical

10.6.6 South and Central America: GNSS Chip Market – Revenue and Forecast Analysis – by Country

10.6.6.1 South and Central America: GNSS Chip Market – Revenue and Forecast Analysis – by Country

10.6.6.2 Brazil: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.6.6.2.1 Brazil: GNSS Chip Market Breakdown, by Device

10.6.6.2.2 Brazil: GNSS Chip Market Breakdown, by Application

10.6.6.2.3 Brazil: GNSS Chip Market Breakdown, by Vertical

10.6.6.3 Argentina: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.6.6.3.1 Argentina: GNSS Chip Market Breakdown, by Device

10.6.6.3.2 Argentina: GNSS Chip Market Breakdown, by Application

10.6.6.3.3 Argentina: GNSS Chip Market Breakdown, by Vertical

10.6.6.4 Rest of South and Central America: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

10.6.6.4.1 Rest of South and Central America: GNSS Chip Market Breakdown, by Device

10.6.6.4.2 Rest of South and Central America: GNSS Chip Market Breakdown, by Application

10.6.6.4.3 Rest of South and Central America: GNSS Chip Market Breakdown, by Vertical

11. COMPETITIVE LANDSCAPE

11.1 Heat Map Analysis by Key Players

11.2 Company Positioning & Concentration

12. INDUSTRY LANDSCAPE

12.1 Overview

12.2 Market Initiative

12.3 Product Development

12.4 Mergers & Acquisitions

13. COMPANY PROFILES

13.1 Qualcomm Inc

- 13.1.1 Key Facts
- 13.1.2 Business Description
- 13.1.3 Products and Services
- 13.1.4 Financial Overview
- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments
- 13.2 SkyTraq Technology Inc
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview
 - 13.2.5 SWOT Analysis
 - 13.2.6 Key Developments
- 13.3 Broadcom Inc
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 Septentrio NV
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 Trimble Inc
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Furuno Electric Co Ltd
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview

- 13.6.5 SWOT Analysis
- 13.6.6 Key Developments
- 13.7 MediaTek Inc
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 STMicroelectronics NV
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 Skyworks Solutions Inc
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 u-blox Holding AG
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 Financial Overview
 - 13.10.5 SWOT Analysis
 - 13.10.6 Key Developments

14. APPENDIX

- 14.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. GNSS Chip Market Segmentation

Table 2. List of Vendors

Table 3. GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Table 4. GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million) – by Device

Table 5. GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million) – by Application

Table 6. GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million) – by Vertical

Table 7. North America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 8. North America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 9. North America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 10. North America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Country

Table 11. United States: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 12. United States: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 13. United States: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 14. Canada: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 15. Canada: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 16. Canada: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 17. Mexico: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 18. Mexico: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 19. Mexico: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 20. Europe: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 21. Europe: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 22. Europe: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 23. Europe: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Country

Table 24. Germany: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 25. Germany: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 26. Germany: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 27. France: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 28. France: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 29. France: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 30. Italy: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 31. Italy: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 32. Italy: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 33. United Kingdom: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 34. United Kingdom: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 35. United Kingdom: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 36. Russia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 37. Russia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 38. Russia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 39. Rest of Europe: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 40. Rest of Europe: GNSS Chip Market – Revenue and Forecast to 2030(US\$

Million) – by Application

Table 41. Rest of Europe: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 42. Asia Pacific: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 43. Asia Pacific: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 44. Asia Pacific: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 45. Asia Pacific: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Country

Table 46. China: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 47. China: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 48. China: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 49. Japan: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 50. Japan: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 51. Japan: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 52. South Korea: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 53. South Korea: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 54. South Korea: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 55. India: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 56. India: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 57. India: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 58. Australia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 59. Australia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 60. Australia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 61. Rest of APAC: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 62. Rest of APAC: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 63. Rest of APAC: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 64. Middle East and Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 65. Middle East and Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 66. Middle East and Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 67. Middle East and Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Country

Table 68. Saudi Arabia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 69. Saudi Arabia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 70. Saudi Arabia: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 71. United Arab Emirates: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 72. United Arab Emirates: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 73. United Arab Emirates: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 74. South Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 75. South Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 76. South Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 77. Rest of Middle East and Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 78. Rest of Middle East and Africa: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 79. Rest of Middle East and Africa: GNSS Chip Market – Revenue and Forecast

to 2030(US\$ Million) – by Vertical

Table 80. South and Central America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 81. South and Central America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 82. South and Central America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 83. South and Central America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Country

Table 84. Brazil: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 85. Brazil: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 86. Brazil: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 87. Argentina: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 88. Argentina: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 89. Argentina: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 90. Rest of South and Central America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 91. Rest of South and Central America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Application

Table 92. Rest of South and Central America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million) – by Vertical

Table 93. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

Figure 1. GNSS Chip Market Segmentation, by Geography

Figure 2. PEST Analysis

Figure 3. Ecosystem Analysis

Figure 4. Impact Analysis of Drivers and Restraints

Figure 5. GNSS Chip Market Breakdown by Geography, 2022 and 2030 (%)

Figure 6. GNSS Chip Market Revenue (US\$ Million), 2022–2030

Figure 7. GNSS Chip Market Share (%) – by Device (2022 and 2030)

Figure 8. Smartphones: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 9. Tablets: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 10. Personal Navigation Devices: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 11. In-Vehicle systems: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 12. Others: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 13. GNSS Chip Market Share (%) – by Application (2022 and 2030)

Figure 14. Navigation and Location-Based Services: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 15. Mapping and Surveying: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 16. Telematics: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 17. Timing and Synchronization: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 18. Others: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 19. GNSS Chip Market Share (%) – by Vertical (2022 and 2030)

Figure 20. Consumer Electronics: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 21. Automotive and Transportation: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 22. Military and Defense: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 23. Marine: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 24. Others: GNSS Chip Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 25. GNSS Chip Market Breakdown by Region, 2022 and 2030 (%)

Figure 26. North America: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million)

Figure 27. North America: GNSS Chip Market Breakdown, by Device (2022 and 2030)

Figure 28. North America: GNSS Chip Market Breakdown, by Application (2022 and 2030)

Figure 29. North America: GNSS Chip Market Breakdown, by Vertical (2022 and 2030)

Figure 30. North America: GNSS Chip Market Breakdown, by Key Countries, 2022 and 2030 (%)

Figure 31. United States: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million)

Figure 32. Canada: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million)

Figure 33. Mexico: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million)

Figure 34. Europe: GNSS Chip Market – Revenue and Forecast to 2030(US\$ Million)

Figure 35.

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