

GNSS Chips for Timing and Synchronization Market Size and Forecast (2021-2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: by Device (Cellular Network Devices, Small Cells, PMR (Public Mobile Radios), Phazor Measurement Units (PMU), and Others), Industry Vertical (Telecom and IT, Energy, BFSI, Consumer Electronics, Automotive and Transportation, and Others), and Geography

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Abstracts

The GNSS Chip for Timing and Synchronization market size is expected to reach US\$ 290.09 million by 2031 from 165.24 million in 2024, at an estimated CAGR of 8.7% from 2025 to 2031.

By Geography the GNSS Chip for Timing and Synchronization market is segmented into North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America. In 2024, Europe held a significant share in the market. The Europe GNSS chip for time and synchronization market is subsegmented into Germany, France, the UK, Italy, Russia, and the rest of Europe. The role of GNSS chips in timing and synchronization applications continues to grow as telecom infrastructure embraces virtualized and cloud-native designs. In a significant move, u-blox announced a strategic collaboration with Intel to develop the M2-ZED-F9T GNSS timing card in February 2025. Specifically engineered for Intel's Xeon 6 SoC platforms, the card delivers the sub-microsecond timing accuracy required by virtualized Radio Access Networks (vRANs) operating across multiple radio access technologies. Precise GNSS-based timing becomes a necessity rather than an optional functionality with the scaling up vRAN

deployments. Solutions such as the M2-ZED-F9T reflect the industry's shift toward tightly integrated, high-precision timing modules at the core of next-generation mobile architecture. Thus, the launch of such solutions drives the GNSS chip for timing and synchronization market in Europe.

The GNSS Chip for Timing and Synchronization market analysis has been carried out by considering the following segments: Device and Industry Vertical.

The Global GNSS Chip for Timing and Synchronization Market, by Device, is segmented into Cellular Network Devices, Small Cells, PMR (Public Mobile Radios), Phazor Measurement Units (PMU), and Others. A cellular device is a mobile device that uses cellular networks to provide voice and data communication, multimedia services, and seamless roaming capabilities. In modern cellular networks, precise timing and synchronization are crucial for maintaining network performance, especially in time-division-based systems such as 5G. The growth of cellular networks from 1G to 5G has resulted in faster speeds and lower latency, alongside creating a way to support a greater number of devices, allowing for sophisticated applications in industries such as healthcare, transportation, and smart cities. GNSS chips embedded in cellular devices provide highly accurate and consistent timing references, ensuring synchronized transmission and reception between base stations and user devices. The expansion of 5G networks is leading to increased demand for highly synchronized infrastructure components, which contributes to the demand for cellular networks. With the ongoing evolution of mobile networks, GNSS-based timing will continue to play a fundamental role in the efficiency and stability of cellular infrastructure.

Moreover, factor such as rising deployment of 5G network infrastructure and increasing demand for timing and synchronization capacities to improve cybersecurity in data centers and cloud services propel the GNSS chips for timing and synchronization market growth. Also, hybrid timing architecture is expected to bring new GNSS Chips for Timing and Synchronization market trends in the coming years.

The Global GNSS Chip for Timing and Synchronization Market, by Industry Vertical, is segmented into Telecom and IT, Energy, BFSI, Consumer Electronics, Automotive and Transportation, and Others. The telecom and IT sector includes wireless and wireline communication providers, data centers, cloud service operators, and enterprise IT infrastructure. This segment aids in global connectivity by supporting services such as internet access, mobile communication, data storage, and cloud computing. In telecommunications, network performance and integrity depend heavily on precise timing and synchronization. GNSS chips are used in base stations, switches, routers,

and data centers to provide accurate time references for coordinating data transfer, ensuring handovers between network nodes, and maintaining overall service quality. Timing is critical for time-division multiplexing (TDM), time-division duplexing (TDD), and protocols such as LTE and 5G NR. Without accurate synchronization, these systems would suffer from interference, dropped connections, and degraded data throughput. The accuracy facilitated by GNSS chips makes them the backbone of network synchronization. In IT and cloud environments, GNSS timing is used for log correlation, transaction timestamping, and distributed database management. Moreover, accurate timekeeping helps detect cybersecurity threats, ensure compliance with regulations, and maintain system performance across globally distributed data centers. 5G requires highly synchronized small cells and network slices, all of which depend on GNSS timing. Thus, the 5G network expansion plays a huge role in driving the growth of the GNSS chip for timing and synchronization market. Distributed data centers and edge computing nodes also need precise synchronization for data consistency and security.

Broadcom Inc, Septentrio NV, Furuno Electric Co Ltd, Quectel Wireless Solutions Co Ltd, u-blox Holding AG, Protempis, LLC, Locosys Technology Inc, Novatel Inc., Safran SA, and STMicroelectronics SV are among the key players profiled in the GNSS Chip for Timing and Synchronization market report.

The GNSS Chip for Timing and Synchronization market forecast is estimated on the basis of various secondary and primary research findings such as key company publications, association data, and databases. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the GNSS Chip for Timing and Synchronization market growth. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the GNSS Chip for Timing and Synchronization market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the GNSS Chips for Timing and Synchronization market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations such as specific country and segmental insight highlights crucial progressive industry trends in the GNSS Chips for Timing and Synchronization market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth market trends and outlook coupled with the factors driving the market, as well as those hindering it

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing and distribution

The List of Companies - GNSS Chip for Timing and Synchronization Market

Broadcom Inc

Septentrio NV

Furuno Electric Co Ltd

Quectel Wireless Solutions Co Ltd

u-blox Holding AG

Protempis, LLC

Locosys Technology Inc

Novatel Inc.

Safran SA

STMicroelectronics SV

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Analyst Market Outlook
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macro-economic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country level data:
- 3.3 Assumptions and Limitations

4. GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors in Value Chain
- 4.4 Impact of Trump's Reciprocal Tariffs
 - 4.4.1 Cost and Pricing
 - 4.4.2 Supply Chain Disruptions
 - 4.4.3 Market Dynamics
 - 4.4.4 Technological and Innovation Impact
 - 4.4.5 Long-term Effects

5. GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET – KEY MARKET DYNAMICS

5.1 GNSS Chip for Timing and Synchronization Market – Key Market Dynamics

5.2 Market Drivers

5.2.1 Rising Deployment of 5G Network Infrastructure

5.2.2 Increasing Demand for Timing and Synchronization Capacities to Improve Cybersecurity in Data Centers and Cloud Services

5.2.3 Rising Deployment in Energy Grids

5.3 Market Restraints

5.3.1 GNSS Outages

5.4 Market Opportunities

5.4.1 Rising Application in Financial Transactions

5.5 Future Trends

5.5.1 Hybrid Timing Architecture

5.6 Impact of Drivers and Restraints:

6. GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET – GLOBAL MARKET ANALYSIS

6.1 GNSS Chip for Timing and Synchronization Market Revenue (US\$ Thousand), 2021–2031

6.2 GNSS Chip for Timing and Synchronization Market Forecast Analysis

7. GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET ANALYSIS – BY DEVICE

7.1 Cellular Network Devices

7.1.1 Overview

7.1.2 Cellular Network Devices: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

7.2 Small Cells

7.2.1 Overview

7.2.2 Small Cells: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

7.3 PMR (Public Mobile Radios)

7.3.1 Overview

7.3.2 PMR (Public Mobile Radios): GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

7.4 Phazor Measurement Units (PMU)

7.4.1 Overview

7.4.2 Phazor Measurement Units (PMU): GNSS Chip for Timing and Synchronization

Market – Revenue and Forecast to 2031 (US\$ Thousand)

7.5 Others

7.5.1 Overview

7.5.2 Others: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

8. GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET ANALYSIS – BY INDUSTRY VERTICAL

8.1 Telecom and IT

8.1.1 Overview

8.1.2 Telecom and IT: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

8.2 Energy

8.2.1 Overview

8.2.2 Energy: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

8.3 BFSI

8.3.1 Overview

8.3.2 BFSI: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

8.4 Consumer Electronics

8.4.1 Overview

8.4.2 Consumer Electronics: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

8.5 Automotive and Transportation

8.5.1 Overview

8.5.2 Automotive and Transportation: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

8.6 Others

8.6.1 Overview

8.6.2 Others: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)

9. GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET – GEOGRAPHICAL ANALYSIS

9.1 Overview

9.2 North America

- 9.2.1 North America GNSS Chip for Timing and Synchronization Market Overview
- 9.2.2 North America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)
- 9.2.3 North America: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
 - 9.2.3.1 North America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Device
- 9.2.4 North America: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
 - 9.2.4.1 North America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Industry Vertical
- 9.2.5 North America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country
 - 9.2.5.1 North America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country
 - 9.2.5.2 United States: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)
 - 9.2.5.2.1 United States: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
 - 9.2.5.2.2 United States: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
 - 9.2.5.3 Canada: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)
 - 9.2.5.3.1 Canada: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
 - 9.2.5.3.2 Canada: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
 - 9.2.5.4 Mexico: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)
 - 9.2.5.4.1 Mexico: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
 - 9.2.5.4.2 Mexico: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
- 9.3 Europe
 - 9.3.1 Europe GNSS Chip for Timing and Synchronization Market Overview
 - 9.3.2 Europe: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)
 - 9.3.3 Europe: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.3.3.1 Europe: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Device

9.3.4 Europe: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.3.4.1 Europe: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Industry Vertical

9.3.5 Europe: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country

9.3.5.1 Europe: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country

9.3.5.2 Germany: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.3.5.2.1 Germany: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.3.5.2.2 Germany: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.3.5.3 France: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.3.5.3.1 France: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.3.5.3.2 France: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.3.5.4 United Kingdom: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.3.5.4.1 United Kingdom: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.3.5.4.2 United Kingdom: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.3.5.5 Italy: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.3.5.5.1 Italy: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.3.5.5.2 Italy: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.3.5.6 Russia: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.3.5.6.1 Russia: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.3.5.6.2 Russia: GNSS Chip for Timing and Synchronization Market Breakdown, by

Industry Vertical

9.3.5.7 Rest of Europe: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.3.5.7.1 Rest of Europe: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.3.5.7.2 Rest of Europe: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.4 Asia Pacific

9.4.1 Asia Pacific GNSS Chip for Timing and Synchronization Market Overview

9.4.2 Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)

9.4.3 Asia Pacific: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.4.3.1 Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Device

9.4.4 Asia Pacific: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.4.4.1 Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Industry Vertical

9.4.5 Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country

9.4.5.1 Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country

9.4.5.2 China: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.4.5.2.1 China: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.4.5.2.2 China: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.4.5.3 Japan: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.4.5.3.1 Japan: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.4.5.3.2 Japan: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.4.5.4 South Korea: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.4.5.4.1 South Korea: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.4.5.4.2 South Korea: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.4.5.5 India: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.4.5.5.1 India: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.4.5.5.2 India: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.4.5.6 Australia: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.4.5.6.1 Australia: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.4.5.6.2 Australia: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.4.5.7 Rest of APAC: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.4.5.7.1 Rest of APAC: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.4.5.7.2 Rest of APAC: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.5 Middle East and Africa

9.5.1 Middle East and Africa GNSS Chip for Timing and Synchronization Market Overview

9.5.2 Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)

9.5.3 Middle East and Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.5.3.1 Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Device

9.5.4 Middle East and Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.5.4.1 Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Industry Vertical

9.5.5 Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country

9.5.5.1 Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country

9.5.5.2 United Arab Emirates: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

- 9.5.5.2.1 United Arab Emirates: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
- 9.5.5.2.2 United Arab Emirates: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
- 9.5.5.3 Saudi Arabia: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)
 - 9.5.5.3.1 Saudi Arabia: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
 - 9.5.5.3.2 Saudi Arabia: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
- 9.5.5.4 South Africa: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)
 - 9.5.5.4.1 South Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
 - 9.5.5.4.2 South Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
- 9.5.5.5 Rest of Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)
 - 9.5.5.5.1 Rest of Middle East and Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
 - 9.5.5.5.2 Rest of Middle East and Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
- 9.6 South and Central America
 - 9.6.1 South and Central America GNSS Chip for Timing and Synchronization Market Overview
 - 9.6.2 South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)
 - 9.6.3 South and Central America: GNSS Chip for Timing and Synchronization Market Breakdown, by Device
 - 9.6.3.1 South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Device
 - 9.6.4 South and Central America: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical
 - 9.6.4.1 South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Industry Vertical
 - 9.6.5 South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country
 - 9.6.5.1 South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast Analysis – by Country

9.6.5.2 Brazil: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.6.5.2.1 Brazil: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.6.5.2.2 Brazil: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.6.5.3 Argentina: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.6.5.3.1 Argentina: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.6.5.3.2 Argentina: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

9.6.5.4 Rest of South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

9.6.5.4.1 Rest of South and Central America: GNSS Chip for Timing and Synchronization Market Breakdown, by Device

9.6.5.4.2 Rest of South and Central America: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical

10. COMPETITIVE LANDSCAPE

10.1 Heat Map Analysis by Key Players

10.2 Company Market Share Analysis, 2024

11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Market Initiative

11.3 Product Development

11.4 Mergers & Acquisitions

12. COMPANY PROFILES

12.1 Broadcom Inc

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

- 12.1.6 Key Developments
- 12.2 Furuno Electric Co Ltd
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 Septentrio NV
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 STMicroelectronics NV
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 u-blox Holding AG
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Quectel Wireless Solutions Co Ltd
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Safran SA
 - 12.7.1 Key Facts
 - 12.7.2 Business Description

- 12.7.3 Products and Services
- 12.7.4 Financial Overview
- 12.7.5 SWOT Analysis
- 12.7.6 Key Developments
- 12.8 NovAtel Inc.
- 12.8.1 Key Facts
- 12.8.2 Business Description
- 12.8.3 Products and Services
- 12.8.4 Financial Overview
- 12.8.5 SWOT Analysis
- 12.8.6 Key Developments
- 12.9 LOCOSYS Technology Inc.
- 12.9.1 Key Facts
- 12.9.2 Business Description
- 12.9.3 Products and Services
- 12.9.4 Financial Overview
- 12.9.5 SWOT Analysis
- 12.9.6 Key Developments
- 12.10 Protempis, LLC
- 12.10.1 Key Facts
- 12.10.2 Business Description
- 12.10.3 Products and Services
- 12.10.4 Financial Overview
- 12.10.5 SWOT Analysis
- 12.10.6 Key Developments

13. APPENDIX

- 13.1 About The Insight Partners
- 13.2 Word Index

List Of Tables

LIST OF TABLES

- Table 1. GNSS Chip for Timing and Synchronization Market Segmentation
- Table 2. GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand)
- Table 3. GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand)
- Table 4. GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device
- Table 5. GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device
- Table 6. GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical
- Table 7. GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical
- Table 8. North America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device
- Table 9. North America: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device
- Table 10. North America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical
- Table 11. North America: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical
- Table 12. North America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Country
- Table 13. North America: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Country
- Table 14. United States: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device
- Table 15. United States: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device
- Table 16. United States: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical
- Table 17. United States: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical
- Table 18. Canada: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 19. Canada: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 20. Canada: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 21. Canada: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 22. Mexico: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 23. Mexico: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 24. Mexico: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 25. Mexico: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 26. Europe: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 27. Europe: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 28. Europe: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 29. Europe: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 30. Europe: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Country

Table 31. Europe: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Country

Table 32. Germany: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 33. Germany: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 34. Germany: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 35. Germany: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 36. France: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 37. France: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 38. France: GNSS Chip for Timing and Synchronization Market – Revenue,

2021–2024 (US\$ Thousand) – by Industry Vertical

Table 39. France: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 40. United Kingdom: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 41. United Kingdom: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 42. United Kingdom: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 43. United Kingdom: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 44. Italy: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 45. Italy: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 46. Italy: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 47. Italy: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 48. Russia: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 49. Russia: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 50. Russia: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 51. Russia: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 52. Rest of Europe: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 53. Rest of Europe: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 54. Rest of Europe: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 55. Rest of Europe: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 56. Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 57. Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 58. Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 59. Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 60. Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Country

Table 61. Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Country

Table 62. China: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 63. China: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 64. China: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 65. China: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 66. Japan: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 67. Japan: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 68. Japan: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 69. Japan: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 70. South Korea: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 71. South Korea: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 72. South Korea: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 73. South Korea: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 74. India: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 75. India: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 76. India: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 77. India: GNSS Chip for Timing and Synchronization Market – Revenue

Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 78. Australia: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 79. Australia: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 80. Australia: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 81. Australia: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 82. Rest of APAC: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 83. Rest of APAC: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 84. Rest of APAC: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 85. Rest of APAC: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 86. Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 87. Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 88. Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 89. Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 90. Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Country

Table 91. Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Country

Table 92. United Arab Emirates: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 93. United Arab Emirates: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 94. United Arab Emirates: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 95. United Arab Emirates: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 96. Saudi Arabia: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

- Table 97. Saudi Arabia: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device
- Table 98. Saudi Arabia: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical
- Table 99. Saudi Arabia: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical
- Table 100. South Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device
- Table 101. South Africa: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device
- Table 102. South Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical
- Table 103. South Africa: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical
- Table 104. Rest of Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device
- Table 105. Rest of Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device
- Table 106. Rest of Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical
- Table 107. Rest of Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical
- Table 108. South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device
- Table 109. South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device
- Table 110. South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical
- Table 111. South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical
- Table 112. South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Country
- Table 113. South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Country
- Table 114. Brazil: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device
- Table 115. Brazil: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device
- Table 116. Brazil: GNSS Chip for Timing and Synchronization Market – Revenue,

2021–2024 (US\$ Thousand) – by Industry Vertical

Table 117. Brazil: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 118. Argentina: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 119. Argentina: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 120. Argentina: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 121. Argentina: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 122. Rest of South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Device

Table 123. Rest of South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Device

Table 124. Rest of South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2024 (US\$ Thousand) – by Industry Vertical

Table 125. Rest of South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue Forecast, 2025–2031 (US\$ Thousand) – by Industry Vertical

Table 126. List of Abbreviation

List Of Figures

LIST OF FIGURES

- Figure 1. GNSS Chip for Timing and Synchronization Market Segmentation, by Geography
- Figure 2. PEST Analysis
- Figure 3. Ecosystem: GNSS Chip for Timing and Synchronization Market
- Figure 4. Impact Analysis of Drivers and Restraints
- Figure 5. GNSS Chip for Timing and Synchronization Market Breakdown by Geography, 2024 and 2031 (%)
- Figure 6. GNSS Chip for Timing and Synchronization Market Revenue (US\$ Thousand), 2021–2031
- Figure 7. GNSS Chip for Timing and Synchronization Market Share (%) – by Device (2024 and 2031)
- Figure 8. Cellular Network Devices: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 9. Small Cells: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 10. PMR (Public Mobile Radios): GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 11. Phazor Measurement Units (PMU): GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 12. Others: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 13. GNSS Chip for Timing and Synchronization Market Share (%) – by Industry Vertical (2024 and 2031)
- Figure 14. Telecom and IT: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 15. Energy: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 16. BFSI: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 17. Consumer Electronics: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 18. Automotive and Transportation: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 19. Others: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast to 2031 (US\$ Thousand)
- Figure 20. GNSS Chip for Timing and Synchronization Market Breakdown by Region,

2024 and 2031 (%)

Figure 21. North America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)

Figure 22. North America: GNSS Chip for Timing and Synchronization Market Breakdown, by Device (2024 and 2031)

Figure 23. North America: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical (2024 and 2031)

Figure 24. North America: GNSS Chip for Timing and Synchronization Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 25. United States: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 26. Canada: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 27. Mexico: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 28. Europe: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)

Figure 29. Europe: GNSS Chip for Timing and Synchronization Market Breakdown, by Device (2024 and 2031)

Figure 30. Europe: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical (2024 and 2031)

Figure 31. Europe: GNSS Chip for Timing and Synchronization Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 32. Germany: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 33. France: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 34. United Kingdom: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 35. Italy: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 36. Russia: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 37. Rest of Europe: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 38. Asia Pacific: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)

Figure 39. Asia Pacific: GNSS Chip for Timing and Synchronization Market Breakdown, by Device (2024 and 2031)

Figure 40. Asia Pacific: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical (2024 and 2031)

Figure 41. Asia Pacific: GNSS Chip for Timing and Synchronization Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 42. China: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 43. Japan: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 44. South Korea: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 45. India: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 46. Australia: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 47. Rest of APAC: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 48. Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)

Figure 49. Middle East and Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Device (2024 and 2031)

Figure 50. Middle East and Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical (2024 and 2031)

Figure 51. Middle East and Africa: GNSS Chip for Timing and Synchronization Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 52. United Arab Emirates: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 53. Saudi Arabia: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 54. South Africa: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 55. Rest of Middle East and Africa: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 56. South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue, 2021–2031 (US\$ Thousand)

Figure 57. South and Central America: GNSS Chip for Timing and Synchronization Market Breakdown, by Device (2024 and 2031)

Figure 58. South and Central America: GNSS Chip for Timing and Synchronization Market Breakdown, by Industry Vertical (2024 and 2031)

Figure 59. South and Central America: GNSS Chip for Timing and Synchronization

Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 60. Brazil: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 61. Argentina: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 62. Rest of South and Central America: GNSS Chip for Timing and Synchronization Market – Revenue and Forecast, 2021–2031 (US\$ Thousand)

Figure 63. Heat Map Analysis by Key Players

Figure 64. Company Market Share Analysis, 2024

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