

Asia Pacific GNSS Chip for Timing and Synchronization Market Size and Forecast (2021 - 2031)

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Abstracts

The Asia Pacific GNSS Chip for Timing and Synchronization Market is projected to grow significantly, reaching an estimated US\$ 112,285.8 thousand by 2031, up from US\$ 62,982.9 thousand in 2024. This growth reflects a compound annual growth rate (CAGR) of 8.9% from 2025 to 2031, indicating a robust demand for GNSS chips in various applications across the region.

Executive Summary and Market Analysis

The Asia Pacific region, which includes countries such as Australia, China, India, Japan, South Korea, and others, is recognized as one of the largest semiconductor manufacturing hubs globally. The presence of major industry players is a testament to the region's capabilities. In a bid to enhance domestic chip production, several countries in Asia Pacific are actively pursuing foreign investments to bolster the development and design of their semiconductor industries. For instance, in May 2025, India approved its sixth semiconductor manufacturing facility, a joint venture between HCL and Foxconn, as part of the India Semiconductor Mission. This initiative is part of a broader strategy to strengthen the country's semiconductor ecosystem, with five additional semiconductor units already in advanced stages of construction.

The growing domestic capabilities in chip production are expected to significantly enhance the development and deployment of GNSS chips, particularly for timing and synchronization applications. Key manufacturers in the Asia Pacific GNSS chip market include FURUNO ELECTRIC CO., Broadcom, Inc., STMicroelectronics, Septentrio N.V., U-Blox Holding AG, QUECTEL WIRELESS SOLUTIONS CO., and HEMISPHERE GNSS, all of which are contributing to the market's growth.

Strategic Insights

Market Segmentation Analysis

The Asia Pacific GNSS Chip for Timing and Synchronization Market is segmented by device and industry vertical.

By Device: The market is divided into Cellular Network Devices, Small Cells, Public Mobile Radios (PMR), Phazor Measurement Units (PMU), and Others. In 2024, the 'Others' category held the largest market share, indicating a diverse range of applications for GNSS chips.

By Industry Vertical: The market is also segmented into Telecom and IT, Energy, Banking, Financial Services, and Insurance (BFSI), Consumer Electronics, Automotive and Transportation, and Others. The Telecom and IT sector dominated the market in 2024, reflecting the critical role of GNSS technology in communication and data services.

Market Outlook

In the financial services sector, robust IT networks and systems are essential for ensuring high availability, security, and reliability. GNSS technology is increasingly utilized for synchronization and timestamping, which is crucial for recording transactions chronologically. The advantages of using GNSS in financial transactions include:

Enhanced Security: GNSS-based timestamping provides a secure method for documenting transactions, making them tamper-proof.

Greater Dependability: GNSS offers a reliable timing source, which minimizes the risk of errors or disputes in transaction records.

Regulatory Compliance: Financial institutions can meet stringent regulatory requirements through GNSS-based timestamping, ensuring accurate and verifiable transaction records.

Timing and synchronization solutions are vital for timestamping financial transactions,

as regulators require precise timestamps to ensure secure trading, prevent fraud, and protect consumer data from manipulation. While many financial systems still rely on the Network Time Protocol (NTP) for time synchronization, GNSS signals, often combined with rubidium atomic clocks, serve as the reference clock for these systems.

Country Insights

The Asia Pacific GNSS Chip for Timing and Synchronization Market is further segmented by country, including China, Japan, South Korea, India, Australia, and the Rest of APAC. In 2024, China held the largest market share, driven by its strong focus on technological self-reliance and innovation, particularly in satellite navigation and digital infrastructure.

China's emphasis on timing and synchronization technologies is crucial for enabling high-precision applications across various sectors, including transportation, defense, and communications. The Fourth Session of the 13th National People's Congress adopted the Outline of the 14th Five-Year Plan and Vision 2035, which outlines the national strategy for economic and social development from 2021 to 2025. This plan builds on the achievements of the previous five-year plan, including the completion of the BeiDou-3 global navigation satellite system, and emphasizes the advancement of core technologies and the strengthening of national GNSS capabilities.

Company Profiles

Key players in the Asia Pacific GNSS Chip for Timing and Synchronization Market include STMicroelectronics NV, Broadcom Inc, Safran SA, NovAtel Inc., Septentrio NV, U-Blox Holding AG, Quectel Wireless Solutions Co Ltd, Furuno Electric Co Ltd, LOCOSYS Technology Inc., and Protempis, LLC. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their product offerings and increase their market share.

In conclusion, the Asia Pacific GNSS Chip for Timing and Synchronization Market is poised for significant growth, driven by advancements in semiconductor manufacturing, increasing demand for precise timing solutions, and the strategic initiatives of key players in the region.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers
 - 4.3.2 Manufacturers
 - 4.3.3 Distributors or Suppliers
 - 4.3.4 End-Use Industry
 - 4.3.5 List of Vendors in the Value Chain
- 4.4 Impact of Trump's Reciprocal Tariffs

5. ASIA PACIFIC GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
- 5.2 Market Restraints

5.3 Market Opportunities

5.4 Future Trends

5.5 Impact of Drivers and Restraints:

6. GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET - ASIA PACIFIC MARKET ANALYSIS

6.1 Asia Pacific GNSS Chip for Timing and Synchronization Market Revenue (US\$ Thousand), 2024 - 2031

6.2 Asia Pacific GNSS Chip for Timing and Synchronization Market Forecast and Analysis

7. ASIA PACIFIC GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET REVENUE ANALYSIS - BY DEVICE

7.1 Cellular Network Devices

7.1.1 Overview

7.1.2 Cellular Network Devices: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

7.2 Small Cells

7.2.1 Overview

7.2.2 Small Cells: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

7.3 Public Mobile Radios (PMR)

7.3.1 Overview

7.3.2 Public Mobile Radios (PMR): Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

7.4 Phazor Measurement Units (PMU)

7.4.1 Overview

7.4.2 Phazor Measurement Units (PMU): Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

7.5 Others

7.5.1 Overview

7.5.2 Others: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

8. ASIA PACIFIC GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET REVENUE ANALYSIS - BY INDUSTRY VERTICAL

8.1 Telecom and IT

8.1.1 Overview

8.1.2 Telecom and IT: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

8.2 Energy

8.2.1 Overview

8.2.2 Energy: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

8.3 BFSI

8.3.1 Overview

8.3.2 BFSI: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

8.4 Consumer Electronics

8.4.1 Overview

8.4.2 Consumer Electronics: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

8.5 Automotive and Transportation

8.5.1 Overview

8.5.2 Automotive and Transportation: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

8.6 Others

8.6.1 Overview

8.6.2 Others: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

9. ASIA PACIFIC GNSS CHIP FOR TIMING AND SYNCHRONIZATION MARKET - COUNTRY ANALYSIS

9.1 Asia Pacific

9.1.1 Asia Pacific GNSS Chip for Timing and Synchronization Market Revenue and Forecast and Analysis - by Country

9.1.1.1 Asia Pacific GNSS Chip for Timing and Synchronization Market Revenue and Forecast and Analysis - by Country

9.1.2.2 China: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

9.1.2.2.1 China: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Device

9.1.2.2.2 China: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Industry Vertical

9.2.3.3 Japan: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

9.2.3.3.1 Japan: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Device

9.2.3.3.2 Japan: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Industry Vertical

9.3.4.4 South Korea: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

9.3.4.4.1 South Korea: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Device

9.3.4.4.2 South Korea: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Industry Vertical

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

9.4.5.5.1 India: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Device

9.4.5.5.2 India: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Industry Vertical

9.5.6.6 Australia: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

9.5.6.6.1 Australia: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Device

9.5.6.6.2 Australia: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Industry Vertical

9.6.7.7 Rest of APAC: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

9.6.7.7.1 Rest of APAC: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - by Device

9.6.7.7.2 Rest of APAC: Asia Pacific GNSS Chip for Timing and Synchronization Market Share - 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 New Product Development
- 11.3 Merger and Acquisition
- 11.4 Other Strategic Developments

12 COMPANY PROFILES

- 12.1 STMicroelectronics NV
 - 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 Broadcom Inc
 - 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 Safran SA
 - 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 NovAtel Inc.
 - 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 Septentrio NV
 - 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 u-blox Holding AG
 - 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 Quectel Wireless Solutions Co Ltd
 - 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 Furuno Electric Co Ltd
 - 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

List Of Tables

LIST OF TABLES

Table 1. Asia Pacific GNSS Chip for Timing and Synchronization Market Segmentation

Table 2. List of Vendors

Table 3. Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Table 4. Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Device

Table 5. Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Industry Vertical

Table 6. Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Country

Table 7. China: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Device

Table 8. China: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Industry Vertical

Table 9. Japan: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Device

Table 10. Japan: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Industry Vertical

Table 11. South Korea: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Device

Table 12. South Korea: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Industry Vertical

Table 13. India: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Device

Table 14. India: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Industry Vertical

Table 15. Australia: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Device

Table 16. Australia: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Industry Vertical

Table 17. Rest of APAC: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Device

Table 18. Rest of APAC: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Industry Vertical

Table 19. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

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

Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Figure 20. Asia Pacific GNSS Chip for Timing and Synchronization Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 21. China: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Figure 22. Japan: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Figure 23. South Korea: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Figure 24. India: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Figure 25. Australia: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Figure 26. Rest of APAC: Asia Pacific GNSS Chip for Timing and Synchronization Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Figure 27. Company Market Share Analysis, 2024

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