

Global GNSS Timing Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GNSS Timing Module market size is expected to reach \$ 1897 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

GNSS timing modules are electronic components that receive satellite time signals via Global Navigation Satellite Systems and output high-precision one-pulse-per-second (1PPS) signals, frequency signals, and time synchronization data. They are primarily used in systems requiring a unified time reference, such as communication base stations, power automation, financial trading systems, data centers, traffic control systems, industrial networks, and defense research. Global estimates for 2025 indicate a sales volume of approximately 16.85 million units, an average unit price of about \$61.60, and an industry capacity utilization rate of roughly 79.4%. Upstream suppliers operate in sectors including RF chips, GNSS baseband chips, TCXOs (temperature-compensated crystal oscillators), OCXOs (oven-controlled crystal oscillators), low-noise amplifiers (LNAs), ceramic antennas, connectors, PCBs, shielding components, embedded software, and automated test equipment. Downstream applications span communication equipment, power equipment, data center hardware, time synchronization servers, financial trading systems, traffic signal systems, industrial controls, surveying and mapping instruments, unmanned systems, and scientific research instruments; the industry's average gross profit margin is approximately 36.8%. The product cost structure comprises: GNSS chips and RF front-ends (approx. 31%); crystal oscillators and clock holdover components (approx. 18%); circuit boards and passive components (approx. 12%); antenna interfaces and structural components (approx. 8%); firmware, algorithms, and protocol adaptation (approx. 9%); and testing, calibration, and reliability verification (approx. 10%). Packaging and logistics account for approximately 5% of costs, while R&D, certification, and channel expenses make up about 7%. Specific application requirements include timing for 5G base stations,

synchronization for power substations and data center clocks, timestamps for financial transactions, signal synchronization for rail transit and industrial Ethernet, positioning and timing for drones and robots, and high-precision time references for scientific research and metrology platforms. Downstream customers range from manufacturers of telecommunications equipment, time synchronization devices, data center hardware, rail transit equipment, industrial control systems, surveying instruments, and unmanned systems to power automation firms, fintech system providers, research institutes, and electronic component distributors. Business opportunities are driven by policy initiatives such as new infrastructure development, power system digitalization, communication network security, large-scale BeiDou adoption, and heightened time-security standards for critical infrastructure and by technological innovations, including multi-constellation/multi-frequency reception, anti-interference designs, low-power chips, OCXO (Oven-Controlled Crystal Oscillator) disciplining algorithms, enhanced holdover capabilities, and PTP protocol adaptation. Furthermore, evolving customer demands prioritizing timing accuracy, stability, signal-blocking resilience, domestic alternatives, long-term supply continuity, low maintenance costs, and system-level reliability are propelling the evolution of GNSS timing modules from general-purpose positioning units to specialized modules offering high precision, high reliability, and scenario-specific performance.

GNSS timing modules are core components within the time synchronization industry chain; demand is driven primarily by the growing reliance of communication networks, power systems, data centers, and industrial automation on unified time references. As the deployment of 5G private networks, edge computing, smart substations, distributed energy resources, low-latency financial trading, and the Industrial Internet continues, timing errors in individual devices are no longer merely localized performance issues; they impact network coordination, event traceability, data consistency, and system security, thereby increasing the importance of highly reliable timing modules. Future competition will shift from basic satellite reception capabilities to comprehensive time service capabilities, encompassing multi-constellation compatibility, stability in weak-signal environments, anti-interference performance, holdover capability, temperature drift control, protocol compatibility, and long-term reliability. Customers in the telecommunications and power sectors typically require lengthy certification processes but exhibit low replacement rates once a supplier enters the supply chain; this favors companies possessing capabilities in chip adaptation, algorithmic expertise, quality control, and customization to secure stable market shares. Industry opportunities also arise from domestic substitution trends and the maturing BeiDou ecosystem, expanding the scope for domestic equipment manufacturers to integrate their products into telecommunications, power grid, transportation, and public safety applications. Risks

stem primarily from cross-sector competition from low-end positioning modules, fluctuations in customer inventory cycles, the diversion of demand to network-based timing or local clock solutions in certain scenarios, and increasingly stringent requirements for anti-interference and holdover performance in high-end applications. Overall, GNSS timing modules will evolve from standard electronic modules into time-security components, with product development trending toward higher precision, multi-protocol support, enhanced anti-interference capabilities, and greater system integration.

This report studies the global GNSS Timing Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GNSS Timing Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of GNSS Timing Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GNSS Timing Module total production and demand, 2021-2032, (K Units)

Global GNSS Timing Module total production value, 2021-2032, (USD Million)

Global GNSS Timing Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global GNSS Timing Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: GNSS Timing Module domestic production, consumption, key domestic manufacturers and share

Global GNSS Timing Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global GNSS Timing Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global GNSS Timing Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global GNSS Timing Module market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Furuno Electric Co., Ltd. (JP), Septentrio N.V. (BE), Telit Cinterion (US), Trimble Inc. (US), Protempis (US), Meinberg Funkuhren

GmbH & Co. KG (DE), u-blox AG (CH), SCN (UK), SLX Timing (US), LOCOSYS Technology Inc. (TW), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GNSS Timing Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global GNSS Timing Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GNSS Timing Module Market, Segmentation by Type:

Single Mode Timing Module

Multi-mode Timing Module

Global GNSS Timing Module Market, Segmentation by Time Synchronization Accuracy (1?):

?5ns

5-10ns

10-20ns

?20ns

Global GNSS Timing Module Market, Segmentation by Positioning Accuracy:

CEP 50:?2m

CEP 50:?2.5m

CEP 50:?3m

Other

Global GNSS Timing Module Market, Segmentation by Application:

Finance

Telecommunications

Traffic Control

Video Surveillance

Smart Grid

Other

Companies Profiled:

Furuno Electric Co., Ltd. (JP)

Septentrio N.V. (BE)

Telit Cinterion (US)

Trimble Inc. (US)

Protempis (US)

Meinberg Funkhrehn GmbH & Co. KG (DE)

u-blox AG (CH)

SCN (UK)

SLX Timing (US)

LOCOSYS Technology Inc. (TW)

Unicore Communications, Inc. (CN)

Quectel Wireless Solutions Co., Ltd. (CN)

Allystar Technology (Shenzhen) Co., Ltd. (CN)

Beijing Zhong Ke Microelectronic Co., Ltd. (CN)

SKYLAB M&C Technology Co., Ltd. (CN)

Key Questions Answered:

1. How big is the global GNSS Timing Module market?
2. What is the demand of the global GNSS Timing Module market?

3. What is the year over year growth of the global GNSS Timing Module market?
4. What is the production and production value of the global GNSS Timing Module market?
5. Who are the key producers in the global GNSS Timing Module market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 GNSS Timing Module Introduction
- 1.2 World GNSS Timing Module Supply & Forecast
 - 1.2.1 World GNSS Timing Module Production Value (2021 & 2025 & 2032)
 - 1.2.2 World GNSS Timing Module Production (2021-2032)
 - 1.2.3 World GNSS Timing Module Pricing Trends (2021-2032)
- 1.3 World GNSS Timing Module Production by Region (Based on Production Site)
 - 1.3.1 World GNSS Timing Module Production Value by Region (2021-2032)
 - 1.3.2 World GNSS Timing Module Production by Region (2021-2032)
 - 1.3.3 World GNSS Timing Module Average Price by Region (2021-2032)
 - 1.3.4 North America GNSS Timing Module Production (2021-2032)
 - 1.3.5 Europe GNSS Timing Module Production (2021-2032)
 - 1.3.6 China GNSS Timing Module Production (2021-2032)
 - 1.3.7 Japan GNSS Timing Module Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 GNSS Timing Module Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 GNSS Timing Module Major Market Trends

2 DEMAND SUMMARY

- 2.1 World GNSS Timing Module Demand (2021-2032)
- 2.2 World GNSS Timing Module Consumption by Region
 - 2.2.1 World GNSS Timing Module Consumption by Region (2021-2026)
 - 2.2.2 World GNSS Timing Module Consumption Forecast by Region (2027-2032)
- 2.3 United States GNSS Timing Module Consumption (2021-2032)
- 2.4 China GNSS Timing Module Consumption (2021-2032)
- 2.5 Europe GNSS Timing Module Consumption (2021-2032)
- 2.6 Japan GNSS Timing Module Consumption (2021-2032)
- 2.7 South Korea GNSS Timing Module Consumption (2021-2032)
- 2.8 ASEAN GNSS Timing Module Consumption (2021-2032)
- 2.9 India GNSS Timing Module Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World GNSS Timing Module Production Value by Manufacturer (2021-2026)

- 3.2 World GNSS Timing Module Production by Manufacturer (2021-2026)
- 3.3 World GNSS Timing Module Average Price by Manufacturer (2021-2026)
- 3.4 GNSS Timing Module Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global GNSS Timing Module Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for GNSS Timing Module in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for GNSS Timing Module in 2025
- 3.6 GNSS Timing Module Market: Overall Company Footprint Analysis
 - 3.6.1 GNSS Timing Module Market: Region Footprint
 - 3.6.2 GNSS Timing Module Market: Company Product Type Footprint
 - 3.6.3 GNSS Timing Module Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: GNSS Timing Module Production Value Comparison
 - 4.1.1 United States VS China: GNSS Timing Module Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: GNSS Timing Module Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: GNSS Timing Module Production Comparison
 - 4.2.1 United States VS China: GNSS Timing Module Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: GNSS Timing Module Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: GNSS Timing Module Consumption Comparison
 - 4.3.1 United States VS China: GNSS Timing Module Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: GNSS Timing Module Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based GNSS Timing Module Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based GNSS Timing Module Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers GNSS Timing Module Production Value (2021-2026)

4.4.3 United States Based Manufacturers GNSS Timing Module Production (2021-2026)

4.5 China Based GNSS Timing Module Manufacturers and Market Share

4.5.1 China Based GNSS Timing Module Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers GNSS Timing Module Production Value (2021-2026)

4.5.3 China Based Manufacturers GNSS Timing Module Production (2021-2026)

4.6 Rest of World Based GNSS Timing Module Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based GNSS Timing Module Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers GNSS Timing Module Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers GNSS Timing Module Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World GNSS Timing Module Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single Mode Timing Module

5.2.2 Multi-mode Timing Module

5.3 Market Segment by Type

5.3.1 World GNSS Timing Module Production by Type (2021-2032)

5.3.2 World GNSS Timing Module Production Value by Type (2021-2032)

5.3.3 World GNSS Timing Module Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TIME SYNCHRONIZATION ACCURACY (1?)

6.1 World GNSS Timing Module Market Size Overview by Time Synchronization Accuracy (1?): 2021 VS 2025 VS 2032

6.2 Segment Introduction by Time Synchronization Accuracy (1?)

6.2.1 ?5ns

6.2.2 5-10ns

6.2.3 10-20ns

6.2.4 ?20ns

6.3 Market Segment by Time Synchronization Accuracy (1?)

6.3.1 World GNSS Timing Module Production by Time Synchronization Accuracy (1?) (2021-2032)

6.3.2 World GNSS Timing Module Production Value by Time Synchronization Accuracy (1?) (2021-2032)

6.3.3 World GNSS Timing Module Average Price by Time Synchronization Accuracy (1?) (2021-2032)

7 MARKET ANALYSIS BY POSITIONING ACCURACY

7.1 World GNSS Timing Module Market Size Overview by Positioning Accuracy: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Positioning Accuracy

7.2.1 CEP 50:~2m

7.2.2 CEP 50:~2.5m

7.2.3 CEP 50:~3m

7.2.4 Other

7.3 Market Segment by Positioning Accuracy

7.3.1 World GNSS Timing Module Production by Positioning Accuracy (2021-2032)

7.3.2 World GNSS Timing Module Production Value by Positioning Accuracy (2021-2032)

7.3.3 World GNSS Timing Module Average Price by Positioning Accuracy (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World GNSS Timing Module Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Finance

8.2.2 Telecommunications

8.2.3 Traffic Control

8.2.4 Video Surveillance

8.2.5 Smart Grid

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World GNSS Timing Module Production by Application (2021-2032)

8.3.2 World GNSS Timing Module Production Value by Application (2021-2032)

8.3.3 World GNSS Timing Module Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Furuno Electric Co., Ltd. (JP)

9.1.1 Furuno Electric Co., Ltd. (JP) Details

9.1.2 Furuno Electric Co., Ltd. (JP) Major Business

9.1.3 Furuno Electric Co., Ltd. (JP) GNSS Timing Module Product and Services

9.1.4 Furuno Electric Co., Ltd. (JP) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Furuno Electric Co., Ltd. (JP) Recent Developments/Updates

9.1.6 Furuno Electric Co., Ltd. (JP) Competitive Strengths & Weaknesses

9.2 Septentrio N.V. (BE)

9.2.1 Septentrio N.V. (BE) Details

9.2.2 Septentrio N.V. (BE) Major Business

9.2.3 Septentrio N.V. (BE) GNSS Timing Module Product and Services

9.2.4 Septentrio N.V. (BE) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Septentrio N.V. (BE) Recent Developments/Updates

9.2.6 Septentrio N.V. (BE) Competitive Strengths & Weaknesses

9.3 Telit Cinterion (US)

9.3.1 Telit Cinterion (US) Details

9.3.2 Telit Cinterion (US) Major Business

9.3.3 Telit Cinterion (US) GNSS Timing Module Product and Services

9.3.4 Telit Cinterion (US) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Telit Cinterion (US) Recent Developments/Updates

9.3.6 Telit Cinterion (US) Competitive Strengths & Weaknesses

9.4 Trimble Inc. (US)

9.4.1 Trimble Inc. (US) Details

9.4.2 Trimble Inc. (US) Major Business

9.4.3 Trimble Inc. (US) GNSS Timing Module Product and Services

9.4.4 Trimble Inc. (US) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Trimble Inc. (US) Recent Developments/Updates

9.4.6 Trimble Inc. (US) Competitive Strengths & Weaknesses

9.5 Protempis (US)

9.5.1 Protempis (US) Details

9.5.2 Protempis (US) Major Business

9.5.3 Protempis (US) GNSS Timing Module Product and Services

9.5.4 Protempis (US) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Protempis (US) Recent Developments/Updates

9.5.6 Protempis (US) Competitive Strengths & Weaknesses

9.6 Meinberg Funkuhren GmbH & Co. KG (DE)

9.6.1 Meinberg Funkuhren GmbH & Co. KG (DE) Details

9.6.2 Meinberg Funkuhren GmbH & Co. KG (DE) Major Business

9.6.3 Meinberg Funkuhren GmbH & Co. KG (DE) GNSS Timing Module Product and Services

9.6.4 Meinberg Funkuhren GmbH & Co. KG (DE) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Meinberg Funkuhren GmbH & Co. KG (DE) Recent Developments/Updates

9.6.6 Meinberg Funkuhren GmbH & Co. KG (DE) Competitive Strengths & Weaknesses

9.7 u-blox AG (CH)

9.7.1 u-blox AG (CH) Details

9.7.2 u-blox AG (CH) Major Business

9.7.3 u-blox AG (CH) GNSS Timing Module Product and Services

9.7.4 u-blox AG (CH) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 u-blox AG (CH) Recent Developments/Updates

9.7.6 u-blox AG (CH) Competitive Strengths & Weaknesses

9.8 SCN (UK)

9.8.1 SCN (UK) Details

9.8.2 SCN (UK) Major Business

9.8.3 SCN (UK) GNSS Timing Module Product and Services

9.8.4 SCN (UK) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 SCN (UK) Recent Developments/Updates

9.8.6 SCN (UK) Competitive Strengths & Weaknesses

9.9 SLX Timing (US)

9.9.1 SLX Timing (US) Details

9.9.2 SLX Timing (US) Major Business

9.9.3 SLX Timing (US) GNSS Timing Module Product and Services

9.9.4 SLX Timing (US) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 SLX Timing (US) Recent Developments/Updates

9.9.6 SLX Timing (US) Competitive Strengths & Weaknesses

9.10 LOCOSYS Technology Inc. (TW)

- 9.10.1 LOCOSYS Technology Inc. (TW) Details
- 9.10.2 LOCOSYS Technology Inc. (TW) Major Business
- 9.10.3 LOCOSYS Technology Inc. (TW) GNSS Timing Module Product and Services
- 9.10.4 LOCOSYS Technology Inc. (TW) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 LOCOSYS Technology Inc. (TW) Recent Developments/Updates
- 9.10.6 LOCOSYS Technology Inc. (TW) Competitive Strengths & Weaknesses
- 9.11 Unicore Communications, Inc. (CN)
 - 9.11.1 Unicore Communications, Inc. (CN) Details
 - 9.11.2 Unicore Communications, Inc. (CN) Major Business
 - 9.11.3 Unicore Communications, Inc. (CN) GNSS Timing Module Product and Services
 - 9.11.4 Unicore Communications, Inc. (CN) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Unicore Communications, Inc. (CN) Recent Developments/Updates
 - 9.11.6 Unicore Communications, Inc. (CN) Competitive Strengths & Weaknesses
- 9.12 Quectel Wireless Solutions Co., Ltd. (CN)
 - 9.12.1 Quectel Wireless Solutions Co., Ltd. (CN) Details
 - 9.12.2 Quectel Wireless Solutions Co., Ltd. (CN) Major Business
 - 9.12.3 Quectel Wireless Solutions Co., Ltd. (CN) GNSS Timing Module Product and Services
 - 9.12.4 Quectel Wireless Solutions Co., Ltd. (CN) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Quectel Wireless Solutions Co., Ltd. (CN) Recent Developments/Updates
 - 9.12.6 Quectel Wireless Solutions Co., Ltd. (CN) Competitive Strengths & Weaknesses
- 9.13 Allystar Technology (Shenzhen) Co., Ltd. (CN)
 - 9.13.1 Allystar Technology (Shenzhen) Co., Ltd. (CN) Details
 - 9.13.2 Allystar Technology (Shenzhen) Co., Ltd. (CN) Major Business
 - 9.13.3 Allystar Technology (Shenzhen) Co., Ltd. (CN) GNSS Timing Module Product and Services
 - 9.13.4 Allystar Technology (Shenzhen) Co., Ltd. (CN) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Allystar Technology (Shenzhen) Co., Ltd. (CN) Recent Developments/Updates
 - 9.13.6 Allystar Technology (Shenzhen) Co., Ltd. (CN) Competitive Strengths & Weaknesses
- 9.14 Beijing Zhong Ke Microelectronic Co., Ltd. (CN)
 - 9.14.1 Beijing Zhong Ke Microelectronic Co., Ltd. (CN) Details
 - 9.14.2 Beijing Zhong Ke Microelectronic Co., Ltd. (CN) Major Business

9.14.3 Beijing Zhong Ke Microelectronic Co., Ltd. (CN) GNSS Timing Module Product and Services

9.14.4 Beijing Zhong Ke Microelectronic Co., Ltd. (CN) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Beijing Zhong Ke Microelectronic Co., Ltd. (CN) Recent Developments/Updates

9.14.6 Beijing Zhong Ke Microelectronic Co., Ltd. (CN) Competitive Strengths & Weaknesses

9.15 SKYLAB M&C Technology Co., Ltd. (CN)

9.15.1 SKYLAB M&C Technology Co., Ltd. (CN) Details

9.15.2 SKYLAB M&C Technology Co., Ltd. (CN) Major Business

9.15.3 SKYLAB M&C Technology Co., Ltd. (CN) GNSS Timing Module Product and Services

9.15.4 SKYLAB M&C Technology Co., Ltd. (CN) GNSS Timing Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 SKYLAB M&C Technology Co., Ltd. (CN) Recent Developments/Updates

9.15.6 SKYLAB M&C Technology Co., Ltd. (CN) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 GNSS Timing Module Industry Chain

10.2 GNSS Timing Module Upstream Analysis

10.2.1 GNSS Timing Module Core Raw Materials

10.2.2 Main Manufacturers of GNSS Timing Module Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 GNSS Timing Module Production Mode

10.6 GNSS Timing Module Procurement Model

10.7 GNSS Timing Module Industry Sales Model and Sales Channels

10.7.1 GNSS Timing Module Sales Model

10.7.2 GNSS Timing Module Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World GNSS Timing Module Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World GNSS Timing Module Production Value by Region (2021-2026) & (USD Million)

Table 3. World GNSS Timing Module Production Value by Region (2027-2032) & (USD Million)

Table 4. World GNSS Timing Module Production Value Market Share by Region (2021-2026)

Table 5. World GNSS Timing Module Production Value Market Share by Region (2027-2032)

Table 6. World GNSS Timing Module Production by Region (2021-2026) & (K Units)

Table 7. World GNSS Timing Module Production by Region (2027-2032) & (K Units)

Table 8. World GNSS Timing Module Production Market Share by Region (2021-2026)

Table 9. World GNSS Timing Module Production Market Share by Region (2027-2032)

Table 10. World GNSS Timing Module Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World GNSS Timing Module Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. GNSS Timing Module Major Market Trends

Table 13. World GNSS Timing Module Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World GNSS Timing Module Consumption by Region (2021-2026) & (K Units)

Table 15. World GNSS Timing Module Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World GNSS Timing Module Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key GNSS Timing Module Producers in 2025

Table 18. World GNSS Timing Module Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key GNSS Timing Module Producers in 2025

Table 20. World GNSS Timing Module Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global GNSS Timing Module Company Evaluation Quadrant

Table 22. World GNSS Timing Module Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and GNSS Timing Module Production Site of Key Manufacturer

Table 24. GNSS Timing Module Market: Company Product Type Footprint

Table 25. GNSS Timing Module Market: Company Product Application Footprint

Table 26. GNSS Timing Module Competitive Factors

Table 27. GNSS Timing Module New Entrant and Capacity Expansion Plans

Table 28. GNSS Timing Module Mergers & Acquisitions Activity

Table 29. United States VS China GNSS Timing Module Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China GNSS Timing Module Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China GNSS Timing Module Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based GNSS Timing Module Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers GNSS Timing Module Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers GNSS Timing Module Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers GNSS Timing Module Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers GNSS Timing Module Production Market Share (2021-2026)

Table 37. China Based GNSS Timing Module Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers GNSS Timing Module Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers GNSS Timing Module Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers GNSS Timing Module Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers GNSS Timing Module Production Market Share (2021-2026)

Table 42. Rest of World Based GNSS Timing Module Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers GNSS Timing Module Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers GNSS Timing Module Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers GNSS Timing Module Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers GNSS Timing Module Production Market Share (2021-2026)

Table 47. World GNSS Timing Module Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World GNSS Timing Module Production by Type (2021-2026) & (K Units)

Table 49. World GNSS Timing Module Production by Type (2027-2032) & (K Units)

Table 50. World GNSS Timing Module Production Value by Type (2021-2026) & (USD Million)

Table 51. World GNSS Timing Module Production Value by Type (2027-2032) & (USD Million)

Table 52. World GNSS Timing Module Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World GNSS Timing Module Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World GNSS Timing Module Production Value by Time Synchronization Accuracy (1?), (USD Million), 2021 & 2025 & 2032

Table 55. World GNSS Timing Module Production by Time Synchronization Accuracy (1?) (2021-2026) & (K Units)

Table 56. World GNSS Timing Module Production by Time Synchronization Accuracy (1?) (2027-2032) & (K Units)

Table 57. World GNSS Timing Module Production Value by Time Synchronization Accuracy (1?) (2021-2026) & (USD Million)

Table 58. World GNSS Timing Module Production Value by Time Synchronization Accuracy (1?) (2027-2032) & (USD Million)

Table 59. World GNSS Timing Module Average Price by Time Synchronization Accuracy (1?) (2021-2026) & (US\$/Unit)

Table 60. World GNSS Timing Module Average Price by Time Synchronization Accuracy (1?) (2027-2032) & (US\$/Unit)

Table 61. World GNSS Timing Module Production Value by Positioning Accuracy, (USD Million), 2021 & 2025 & 2032

Table 62. World GNSS Timing Module Production by Positioning Accuracy (2021-2026) & (K Units)

Table 63. World GNSS Timing Module Production by Positioning Accuracy (2027-2032) & (K Units)

Table 64. World GNSS Timing Module Production Value by Positioning Accuracy (2021-2026) & (USD Million)

Table 65. World GNSS Timing Module Production Value by Positioning Accuracy

(2027-2032) & (USD Million)

Table 66. World GNSS Timing Module Average Price by Positioning Accuracy
(2021-2026) & (US\$/Unit)

Table 67. World GNSS Timing Module Average Price by Positioning Accuracy
(2027-2032) & (US\$/Unit)

Table 68. World GNSS Timing Module Production Value by Application, (USD Million),
2021 & 2025 & 2032

Table 69. World GNSS Timing Module Production by Application (2021-2026) & (K
Units)

Table 70. World GNSS Timing Module Production by Application (2027-2032) & (K
Units)

Table 71. World GNSS Timing Module Production Value by Application (2021-2026) &
(USD Million)

Table 72. World GNSS Timing Module Production Value by Application (2027-2032) &
(USD Million)

Table 73. World GNSS Timing Module Average Price by Application (2021-2026) &
(US\$/Unit)

Table 74. World GNSS Timing Module Average Price by Application (2027-2032) &
(US\$/Unit)

Table 75. Furuno Electric Co., Ltd. (JP) Basic Information, Manufacturing Base and
Competitors

Table 76. Furuno Electric Co., Ltd. (JP) Major Business

Table 77. Furuno Electric Co., Ltd. (JP) GNSS Timing Module Product and Services

Table 78. Furuno Electric Co., Ltd. (JP) GNSS Timing Module Production (K Units),
Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 79. Furuno Electric Co., Ltd. (JP) Recent Developments/Updates

Table 80. Furuno Electric Co., Ltd. (JP) Competitive Strengths & Weaknesses

Table 81. Septentrio N.V. (BE) Basic Information, Manufacturing Base and Competitors

Table 82. Septentrio N.V. (BE) Major Business

Table 83. Septentrio N.V. (BE) GNSS Timing Module Product and Services

Table 84. Septentrio N.V. (BE) GNSS Timing Module Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 85. Septentrio N.V. (BE) Recent Developments/Updates

Table 86. Septentrio N.V. (BE) Competitive Strengths & Weaknesses

Table 87. Telit Cinterion (US) Basic Information, Manufacturing Base and Competitors

Table 88. Telit Cinterion (US) Major Business

Table 89. Telit Cinterion (US) GNSS Timing Module Product and Services

Table 90. Telit Cinterion (US) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Telit Cinterion (US) Recent Developments/Updates

Table 92. Telit Cinterion (US) Competitive Strengths & Weaknesses

Table 93. Trimble Inc. (US) Basic Information, Manufacturing Base and Competitors

Table 94. Trimble Inc. (US) Major Business

Table 95. Trimble Inc. (US) GNSS Timing Module Product and Services

Table 96. Trimble Inc. (US) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Trimble Inc. (US) Recent Developments/Updates

Table 98. Trimble Inc. (US) Competitive Strengths & Weaknesses

Table 99. Protempis (US) Basic Information, Manufacturing Base and Competitors

Table 100. Protempis (US) Major Business

Table 101. Protempis (US) GNSS Timing Module Product and Services

Table 102. Protempis (US) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Protempis (US) Recent Developments/Updates

Table 104. Protempis (US) Competitive Strengths & Weaknesses

Table 105. Meinberg Funkuhren GmbH & Co. KG (DE) Basic Information, Manufacturing Base and Competitors

Table 106. Meinberg Funkuhren GmbH & Co. KG (DE) Major Business

Table 107. Meinberg Funkuhren GmbH & Co. KG (DE) GNSS Timing Module Product and Services

Table 108. Meinberg Funkuhren GmbH & Co. KG (DE) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Meinberg Funkuhren GmbH & Co. KG (DE) Recent Developments/Updates

Table 110. Meinberg Funkuhren GmbH & Co. KG (DE) Competitive Strengths & Weaknesses

Table 111. u-blox AG (CH) Basic Information, Manufacturing Base and Competitors

Table 112. u-blox AG (CH) Major Business

Table 113. u-blox AG (CH) GNSS Timing Module Product and Services

Table 114. u-blox AG (CH) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. u-blox AG (CH) Recent Developments/Updates

Table 116. u-blox AG (CH) Competitive Strengths & Weaknesses
Table 117. SCN (UK) Basic Information, Manufacturing Base and Competitors
Table 118. SCN (UK) Major Business
Table 119. SCN (UK) GNSS Timing Module Product and Services
Table 120. SCN (UK) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. SCN (UK) Recent Developments/Updates
Table 122. SCN (UK) Competitive Strengths & Weaknesses
Table 123. SLX Timing (US) Basic Information, Manufacturing Base and Competitors
Table 124. SLX Timing (US) Major Business
Table 125. SLX Timing (US) GNSS Timing Module Product and Services
Table 126. SLX Timing (US) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. SLX Timing (US) Recent Developments/Updates
Table 128. SLX Timing (US) Competitive Strengths & Weaknesses
Table 129. LOCOSYS Technology Inc. (TW) Basic Information, Manufacturing Base and Competitors
Table 130. LOCOSYS Technology Inc. (TW) Major Business
Table 131. LOCOSYS Technology Inc. (TW) GNSS Timing Module Product and Services
Table 132. LOCOSYS Technology Inc. (TW) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. LOCOSYS Technology Inc. (TW) Recent Developments/Updates
Table 134. LOCOSYS Technology Inc. (TW) Competitive Strengths & Weaknesses
Table 135. Unicore Communications, Inc. (CN) Basic Information, Manufacturing Base and Competitors
Table 136. Unicore Communications, Inc. (CN) Major Business
Table 137. Unicore Communications, Inc. (CN) GNSS Timing Module Product and Services
Table 138. Unicore Communications, Inc. (CN) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Unicore Communications, Inc. (CN) Recent Developments/Updates
Table 140. Unicore Communications, Inc. (CN) Competitive Strengths & Weaknesses
Table 141. Quectel Wireless Solutions Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors
Table 142. Quectel Wireless Solutions Co., Ltd. (CN) Major Business

Table 143. Quectel Wireless Solutions Co., Ltd. (CN) GNSS Timing Module Product and Services

Table 144. Quectel Wireless Solutions Co., Ltd. (CN) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Quectel Wireless Solutions Co., Ltd. (CN) Recent Developments/Updates

Table 146. Quectel Wireless Solutions Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 147. Allystar Technology (Shenzhen) Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 148. Allystar Technology (Shenzhen) Co., Ltd. (CN) Major Business

Table 149. Allystar Technology (Shenzhen) Co., Ltd. (CN) GNSS Timing Module Product and Services

Table 150. Allystar Technology (Shenzhen) Co., Ltd. (CN) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Allystar Technology (Shenzhen) Co., Ltd. (CN) Recent Developments/Updates

Table 152. Allystar Technology (Shenzhen) Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 153. Beijing Zhong Ke Microelectronic Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 154. Beijing Zhong Ke Microelectronic Co., Ltd. (CN) Major Business

Table 155. Beijing Zhong Ke Microelectronic Co., Ltd. (CN) GNSS Timing Module Product and Services

Table 156. Beijing Zhong Ke Microelectronic Co., Ltd. (CN) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Beijing Zhong Ke Microelectronic Co., Ltd. (CN) Recent Developments/Updates

Table 158. Beijing Zhong Ke Microelectronic Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 159. SKYLAB M&C Technology Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 160. SKYLAB M&C Technology Co., Ltd. (CN) Major Business

Table 161. SKYLAB M&C Technology Co., Ltd. (CN) GNSS Timing Module Product and Services

Table 162. SKYLAB M&C Technology Co., Ltd. (CN) GNSS Timing Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 163. SKYLAB M&C Technology Co., Ltd. (CN) Recent Developments/Updates

Table 164. SKYLAB M&C Technology Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 165. Global Key Players of GNSS Timing Module Upstream (Raw Materials)

Table 166. Global GNSS Timing Module Typical Customers

Table 167. GNSS Timing Module Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. GNSS Timing Module Picture

Figure 2. World GNSS Timing Module Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World GNSS Timing Module Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World GNSS Timing Module Production (2021-2032) & (K Units)

Figure 5. World GNSS Timing Module Average Price (2021-2032) & (US\$/Unit)

Figure 6. World GNSS Timing Module Production Value Market Share by Region (2021-2032)

Figure 7. World GNSS Timing Module Production Market Share by Region (2021-2032)

Figure 8. North America GNSS Timing Module Production (2021-2032) & (K Units)

Figure 9. Europe GNSS Timing Module Production (2021-2032) & (K Units)

Figure 10. China GNSS Timing Module Production (2021-2032) & (K Units)

Figure 11. Japan GNSS Timing Module Production (2021-2032) & (K Units)

Figure 12. GNSS Timing Module Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World GNSS Timing Module Consumption (2021-2032) & (K Units)

Figure 15. World GNSS Timing Module Consumption Market Share by Region (2021-2032)

Figure 16. United States GNSS Timing Module Consumption (2021-2032) & (K Units)

Figure 17. China GNSS Timing Module Consumption (2021-2032) & (K Units)

Figure 18. Europe GNSS Timing Module Consumption (2021-2032) & (K Units)

Figure 19. Japan GNSS Timing Module Consumption (2021-2032) & (K Units)

Figure 20. South Korea GNSS Timing Module Consumption (2021-2032) & (K Units)

Figure 21. ASEAN GNSS Timing Module Consumption (2021-2032) & (K Units)

Figure 22. India GNSS Timing Module Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of GNSS Timing Module by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for GNSS Timing Module Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for GNSS Timing Module Markets in 2025

Figure 26. United States VS China: GNSS Timing Module Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: GNSS Timing Module Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: GNSS Timing Module Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers GNSS Timing Module Production Market Share 2025

Figure 30. China Based Manufacturers GNSS Timing Module Production Market Share 2025

Figure 31. Rest of World Based Manufacturers GNSS Timing Module Production Market Share 2025

Figure 32. World GNSS Timing Module Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World GNSS Timing Module Production Value Market Share by Type in 2025

Figure 34. Single Mode Timing Module

Figure 35. Multi-mode Timing Module

Figure 36. World GNSS Timing Module Production Market Share by Type (2021-2032)

Figure 37. World GNSS Timing Module Production Value Market Share by Type (2021-2032)

Figure 38. World GNSS Timing Module Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World GNSS Timing Module Production Value by Time Synchronization Accuracy (1?), (USD Million), 2021 & 2025 & 2032

Figure 40. World GNSS Timing Module Production Value Market Share by Time Synchronization Accuracy (1?) in 2025

Figure 41. ?5ns

Figure 42. 5-10ns

Figure 43. 10-20ns

Figure 44. ?20ns

Figure 45. World GNSS Timing Module Production Market Share by Time Synchronization Accuracy (1?) (2021-2032)

Figure 46. World GNSS Timing Module Production Value Market Share by Time Synchronization Accuracy (1?) (2021-2032)

Figure 47. World GNSS Timing Module Average Price by Time Synchronization Accuracy (1?) (2021-2032) & (US\$/Unit)

Figure 48. World GNSS Timing Module Production Value by Positioning Accuracy, (USD Million), 2021 & 2025 & 2032

Figure 49. World GNSS Timing Module Production Value Market Share by Positioning Accuracy in 2025

Figure 50. CEP 50:~2m

Figure 51. CEP 50:~2.5m

Figure 52. CEP 50:~3m

Figure 53. Other

Figure 54. World GNSS Timing Module Production Market Share by Positioning Accuracy (2021-2032)

Figure 55. World GNSS Timing Module Production Value Market Share by Positioning Accuracy (2021-2032)

Figure 56. World GNSS Timing Module Average Price by Positioning Accuracy (2021-2032) & (US\$/Unit)

Figure 57. World GNSS Timing Module Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World GNSS Timing Module Production Value Market Share by Application in 2025

Figure 59. Finance

Figure 60. Telecommunications

Figure 61. Traffic Control

Figure 62. Video Surveillance

Figure 63. Smart Grid

Figure 64. Other

Figure 65. World GNSS Timing Module Production Market Share by Application (2021-2032)

Figure 66. World GNSS Timing Module Production Value Market Share by Application (2021-2032)

Figure 67. World GNSS Timing Module Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. GNSS Timing Module Industry Chain

Figure 69. GNSS Timing Module Procurement Model

Figure 70. GNSS Timing Module Sales Model

Figure 71. GNSS Timing Module Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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