+357 96 030922
info@marketpublishers.com

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

https://marketpublishers.com/r/G47FDCFE5203EN.html
Date: July 2025
Pages: 211
Price: US$ 4,450.00 (Single User License)
ID: G47FDCFE5203EN

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

+357 96 030922
info@marketpublishers.com

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,

+357 96 030922
info@marketpublishers.com

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.

+357 96 030922
info@marketpublishers.com

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

+357 96 030922
info@marketpublishers.com

STMicroelectronics SV

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: 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

Product link: https://marketpublishers.com/r/G47FDCFE5203EN.html

Price: US$ 4,450.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G47FDCFE5203EN.html