

Global All-in-one GNSS Receiver Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global All-in-one GNSS Receiver market size is expected to reach \$ 1308 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

An all-in-one GNSS receiver is an integrated positioning device that combines a GNSS antenna, receiver module, processing unit, communication interfaces, and power management system into a single compact unit, capable of receiving signals from multiple global navigation satellite systems (such as GPS, GLONASS, Galileo, and BeiDou) to provide high-precision positioning, navigation, and timing data for professional and commercial applications.

The all-in-one GNSS receiver industry chain begins upstream with semiconductor suppliers producing GNSS chipsets, RF components, antennas, and embedded processors, along with providers of firmware algorithms and correction services; midstream consists of device manufacturers integrating hardware, software, and communication modules into complete receivers with calibration and testing capabilities; downstream includes distributors, system integrators, and service providers delivering solutions to end users such as surveyors, construction firms, agricultural operators, and government agencies, supported by value-added services including RTK correction networks, cloud platforms, maintenance, and training.

Current and planned projects in the all-in-one GNSS receiver industry include expansion of GNSS chipset fabrication capacity, development of next-generation multi-frequency and multi-constellation receiver platforms, establishment of regional RTK correction network infrastructure, investment in cloud-based positioning services and IoT integration, construction of manufacturing facilities in Asia and Europe to meet rising demand, R&D initiatives focused on improving positioning accuracy in urban canyons

and challenging environments, and collaborations between technology firms and governments to enhance satellite navigation ecosystems and support emerging applications such as autonomous driving and smart agriculture.

2025 Global Market Sales Volume: 1.5 Million Units, Average Global Market Price: USD 620 per Unit, Market Average Gross Profit Margin: 35%.

The all-in-one GNSS receiver market has experienced strong growth driven by increasing demand for high-precision positioning across industries such as construction, agriculture, and geospatial surveying. The transition from traditional standalone GNSS modules to integrated, user-friendly all-in-one devices has significantly expanded the customer base, particularly among small and medium-sized enterprises. Technological advancements in multi-constellation support and real-time correction services have further improved accuracy and reliability, making these devices essential tools in digital transformation initiatives across infrastructure and resource management sectors.

Regionally, Asia-Pacific dominates both production and consumption, supported by large-scale infrastructure development, rapid adoption of precision agriculture, and strong manufacturing ecosystems in countries such as China and Japan. North America and Europe remain key markets due to advanced adoption in construction automation, surveying, and emerging autonomous systems, while also benefiting from well-established GNSS correction service networks. Emerging regions, including Latin America and Africa, are gradually increasing adoption due to infrastructure development and modernization efforts.

Market opportunities are driven by the expansion of smart construction, autonomous machinery, and precision agriculture, as well as the integration of GNSS with IoT and cloud-based platforms. The growing demand for centimeter-level accuracy in applications such as drone mapping and machine control presents significant growth potential. However, risks include dependency on satellite signal availability, vulnerability to signal interference or spoofing, high initial equipment costs, and competition from alternative positioning technologies such as visual positioning systems and terrestrial-based solutions.

Key trends in the market include the shift toward multi-frequency and multi-constellation receivers, increased integration with inertial navigation systems, and the development of compact, lightweight devices for UAV and mobile applications. There is also a growing emphasis on software and service ecosystems, including subscription-based correction services and cloud data platforms. Additionally, manufacturers are focusing on

improving usability, automation, and connectivity to broaden adoption among non-specialist users.

The competitive landscape is characterized by a mix of established global players and rapidly emerging regional manufacturers, particularly in Asia. Leading companies differentiate themselves through technological innovation, accuracy, reliability, and integrated service offerings. While hardware remains important, competitive advantage is increasingly shifting toward software capabilities, data services, and ecosystem integration. The market is moderately consolidated at the high end but remains competitive in mid- and entry-level segments, with price competition intensifying alongside continuous innovation.

This report studies the global All-in-one GNSS Receiver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for All-in-one GNSS Receiver 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 All-in-one GNSS Receiver that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global All-in-one GNSS Receiver total production and demand, 2021-2032, (K Units)

Global All-in-one GNSS Receiver total production value, 2021-2032, (USD Million)

Global All-in-one GNSS Receiver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global All-in-one GNSS Receiver consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: All-in-one GNSS Receiver domestic production, consumption, key domestic manufacturers and share

Global All-in-one GNSS Receiver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global All-in-one GNSS Receiver production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global All-in-one GNSS Receiver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global All-in-one GNSS Receiver 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 Septentrio, Trimble, TE Connectivity, FURUNO ELECTRIC CO, Antenova Ltd, u-blox, Unicore Communications, Sony, VIAVI Solutions, LOCOSYS Technology, 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 All-in-one GNSS Receiver 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 All-in-one GNSS Receiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global All-in-one GNSS Receiver Market, Segmentation by Type:

Standard Accuracy Modules

High Precision (RTK/PPP) Modules

Sub-Meter Modules

Global All-in-one GNSS Receiver Market, Segmentation by Number Of Constellations Supported:

Single-Constellation Modules

Multi-Constellation Modules

Global All-in-one GNSS Receiver Market, Segmentation by Integration Level:

Discrete GNSS Receiver Modules

System-in-Package (SiP) GNSS Modules

Application-Specific Integrated Circuit (ASIC) GNSS Modules

Global All-in-one GNSS Receiver Market, Segmentation by Application:

Automotive Navigation

Smartphone and Consumer Electronics

Wearable and Sports Tracking

Internet of Things (IoT)

Precision Agriculture and Surveying

Marine and Aviation Navigation

Others

Companies Profiled:

Septentrio

Trimble

TE Connectivity

FURUNO ELECTRIC CO

Antenova Ltd

u-blox

Unicore Communications

Sony

VIAVI Solutions

LOCOSYS Technology

Key Questions Answered:

1. How big is the global All-in-one GNSS Receiver market?
2. What is the demand of the global All-in-one GNSS Receiver market?
3. What is the year over year growth of the global All-in-one GNSS Receiver market?
4. What is the production and production value of the global All-in-one GNSS Receiver market?
5. Who are the key producers in the global All-in-one GNSS Receiver market?
6. What are the growth factors driving the market demand?

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