

Global Portable GNSS Receiver Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G956C3C3772EEN.html>

Date: May 2026

Pages: 106

Price: US\$ 4,480.00 (Single User License)

ID: G956C3C3772EEN

Abstracts

The global Portable GNSS Receiver market size is expected to reach \$ 418 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

A portable GNSS receiver is a compact, lightweight, and battery-powered positioning device designed for field use, capable of receiving signals from multiple global navigation satellite systems to provide real-time location, navigation, and timing data, often featuring integrated displays, wireless connectivity, and user-friendly interfaces for mobile applications in surveying, mapping, and outdoor activities.

The portable GNSS receiver industry chain includes upstream suppliers of semiconductor chipsets, RF components, antennas, batteries, and display modules, along with providers of embedded software and positioning algorithms; midstream consists of device manufacturers that design, integrate, assemble, and test portable receivers with varying accuracy and functionality levels; downstream involves distributors, system integrators, and retail channels delivering products to professional users and consumers, supported by value-added services such as GNSS correction subscriptions, mapping software, cloud data platforms, maintenance services, and training for efficient deployment in field applications.

Ongoing and planned projects in the portable GNSS receiver sector include expansion of production capacity in Asia to meet rising global demand, development of next-generation multi-frequency and high-precision portable devices, integration with cloud-based GIS and data analytics platforms, construction of regional GNSS correction service infrastructure, R&D initiatives focused on improving positioning accuracy in dense urban and forest environments, collaborations with agricultural and construction technology providers, and investment in miniaturization, energy efficiency, and user

interface enhancements to support broader adoption across professional and consumer markets.

2025 Global Market Sales Volume: 1.6 Million Units, Average Global Market Price: USD 200 per Unit, Market Average Gross Profit Margin: 30%.

The portable GNSS receiver market has shown steady growth driven by increasing demand for mobility, real-time positioning, and ease of use across both professional and consumer applications. Unlike fixed or high-end integrated systems, portable receivers emphasize convenience, affordability, and flexibility, making them widely adopted in field data collection, outdoor navigation, and light surveying tasks. The convergence of GNSS technology with mobile computing and cloud platforms has significantly enhanced functionality, enabling users to perform complex geospatial operations with handheld devices.

From a regional perspective, Asia-Pacific leads in both manufacturing and volume consumption due to strong electronics production capabilities and widespread use in agriculture, construction, and public sector projects. North America and Europe represent mature markets characterized by high adoption of advanced mapping-grade and survey-grade devices, supported by well-developed GNSS infrastructure and software ecosystems. Emerging regions such as Latin America, Southeast Asia, and Africa are experiencing increasing demand driven by infrastructure development, environmental monitoring, and agricultural modernization.

Market opportunities are closely tied to the expansion of precision agriculture, smart city initiatives, and environmental monitoring programs, all of which require reliable and portable positioning solutions. The growing use of drones and mobile GIS systems also creates additional demand for compact GNSS devices. However, the market faces risks including competition from smartphones with integrated GNSS capabilities, price sensitivity in lower-end segments, and technical challenges such as signal obstruction and interference in complex environments.

Key market trends include the transition toward multi-frequency and multi-constellation receivers, integration with inertial sensors for improved accuracy, and enhanced connectivity through Bluetooth, Wi-Fi, and cloud services. There is also a strong focus on improving user experience through intuitive interfaces and seamless integration with mapping and data collection software. Additionally, manufacturers are investing in ruggedization and battery efficiency to meet the demands of field operations.

The competitive landscape is fragmented, with a mix of global technology leaders and regional manufacturers competing across different price and performance segments. High-end competition is driven by technological innovation and accuracy, while mid- and low-end segments are more price-sensitive and competitive. Companies are increasingly differentiating themselves through software ecosystems, service offerings, and integration capabilities rather than hardware alone. Overall, the portable GNSS receiver market is expected to maintain moderate growth, supported by expanding applications and ongoing technological advancements.

This report studies the global Portable GNSS Receiver production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Portable GNSS Receiver total production and demand, 2021-2032, (K Units)

Global Portable GNSS Receiver total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Portable GNSS Receiver domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Portable 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 Trimble, Sinognss, SatLab, STONEX Srl, Walker RTK, Bad Elf, SXblue GPS, eSurvey, VLG, 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 Portable 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 Portable GNSS Receiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Portable GNSS Receiver Market, Segmentation by Type:

Consumer Grade

Mapping Grade

Survey Grade

Global Portable GNSS Receiver Market, Segmentation by Number Of Constellations Supported:

Single-Constellation Modules

Multi-Constellation Modules

Global Portable GNSS Receiver Market, Segmentation by Fix Accuracy:

Standard Accuracy Modules

High Precision (RTK/PPP) Modules

Sub-Meter Modules

Global Portable GNSS Receiver Market, Segmentation by Application:

Automotive Navigation

Wearable and Sports Tracking

Internet of Things (IoT)

Precision Agriculture and Surveying

Marine and Aviation Navigation

Others

Companies Profiled:

Trimble

Sinognss

SatLab

STONEX Srl

Walker RTK

Bad Elf

SXblue GPS

eSurvey

VLG

Key Questions Answered:

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

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