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

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Abstracts

The global Dual-band GNSS Receiver market size is expected to reach $ 1251 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

A dual-band GNSS receiver is a positioning device capable of simultaneously receiving satellite signals on two different frequency bands (such as L1 and L2 or L1 and L5), enabling improved positioning accuracy, faster signal acquisition, and enhanced resistance to interference and multipath effects compared to single-frequency receivers, making it suitable for both high-precision professional applications and advanced consumer navigation.

The dual-band GNSS receiver industry chain starts upstream with semiconductor companies producing GNSS chipsets, RF front-end components, antennas, and embedded processors, along with providers of positioning algorithms and correction services; midstream includes module and device manufacturers integrating dual-frequency capabilities into receivers through hardware design, firmware development, and system calibration; downstream consists of distributors, OEM integrators, and solution providers delivering products to industries such as automotive, agriculture, surveying, and consumer electronics, supported by value-added services including RTK correction networks, cloud-based positioning platforms, software applications, and maintenance services.

Ongoing and planned projects in the dual-band GNSS receiver industry include expansion of semiconductor fabrication capacity for advanced GNSS chipsets, development of next-generation multi-band and multi-constellation receivers, integration with autonomous driving and smart mobility platforms, construction of regional GNSS

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correction service networks, investment in cloud-based positioning and analytics services, R&D initiatives focused on improving urban positioning accuracy and anti-spoofing capabilities, and collaborations between technology companies and governments to enhance satellite navigation infrastructure and support emerging applications such as IoT, robotics, and precision agriculture.

2025 Global Market Sales Volume: 80 Million Units, Average Global Market Price: USD 12 per Unit, Market Average Gross Profit Margin: 25%.

The dual-band GNSS receiver market has experienced rapid expansion in recent years, driven by the increasing demand for higher positioning accuracy across both professional and consumer applications. The transition from single-frequency to dual-frequency technology represents a significant technological upgrade, enabling improved performance in challenging environments such as urban canyons and dense vegetation. This shift has been particularly evident in smartphones, automotive systems, and UAVs, where enhanced positioning reliability is becoming a critical requirement.

From a regional perspective, Asia-Pacific dominates the market in terms of production and volume consumption, largely due to strong semiconductor manufacturing capabilities and the presence of major consumer electronics and automotive industries. China, Japan, and South Korea play key roles in both supply and demand, while North America and Europe lead in high-end applications such as autonomous driving, surveying, and aerospace. Emerging markets are gradually adopting dual-band GNSS technology as infrastructure and digitalization efforts accelerate.

Market opportunities are substantial, particularly in the automotive sector with the rise of advanced driver-assistance systems and autonomous vehicles, as well as in smartphones and wearable devices where dual-band GNSS is becoming a standard feature. The expansion of IoT and smart city initiatives further drives demand for precise positioning solutions. However, risks include rapid technological obsolescence, intense price competition in the consumer electronics segment, and dependence on global satellite infrastructure, which may be subject to geopolitical or operational uncertainties.

Key market trends include the evolution toward multi-band and multi-constellation receivers, integration with inertial navigation systems and AI-based positioning algorithms, and continuous improvements in power efficiency and miniaturization. There is also increasing emphasis on security features such as anti-jamming and anti-spoofing capabilities. Additionally, the convergence of GNSS with 5G and other positioning technologies is shaping the next generation of hybrid positioning systems.

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The competitive landscape is highly dynamic and technology-driven, with semiconductor companies, GNSS module providers, and device manufacturers all playing critical roles. Leading players differentiate themselves through chipset performance, power efficiency, and integration capabilities, while new entrants focus on cost advantages and niche applications. The market is highly competitive, especially in high-volume consumer segments, but offers strong growth potential as demand for accurate and reliable positioning continues to expand across industries.

This report studies the global Dual-band GNSS Receiver production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Dual-band GNSS Receiver total production and demand, 2021-2032, (K Units)
Global Dual-band GNSS Receiver total production value, 2021-2032, (USD Million)
Global Dual-band GNSS Receiver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Dual-band GNSS Receiver consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Dual-band GNSS Receiver domestic production, consumption, key domestic manufacturers and share
Global Dual-band GNSS Receiver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Dual-band GNSS Receiver production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Dual-band GNSS Receiver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Dual-band 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,

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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 Dual-band 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 Dual-band GNSS Receiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Dual-band GNSS Receiver Market, Segmentation by Type:

Consumer Grade

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Mapping Grade

Survey Grade

Global Dual-band 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 Dual-band GNSS Receiver Market, Segmentation by Fix Accuracy:

Standard Accuracy Modules

High Precision (RTK/PPP) Modules

Sub-Meter Modules

Global Dual-band 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:

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

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