

Global GNSS OEM Board Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global GNSS OEM Board market size was valued at US\$ 4785 million in 2025 and is forecast to a readjusted size of US\$ 7937 million by 2032 with a CAGR of 7.4% during review period.

GNSS receiver modules are embedded satellite navigation components designed to receive and process civil signals from one or more global or regional navigation satellite systems, including GPS, BeiDou, Galileo, GLONASS, QZSS and NavIC. These modules provide host systems with positioning, velocity, timing, heading, raw measurement or synchronization outputs, and are typically supplied as surface-mount receiver modules, SiP modules, OEM receiver boards, RTK/PPP high-precision modules, GNSS/INS dead-reckoning modules, automotive-grade positioning modules or GNSS timing modules. The core technology stack includes multi-constellation and multi-frequency RF reception, baseband processing, LNA and SAW filtering, TCXO or OCXO timing references, RTK/PPP algorithms, inertial sensor fusion, anti-jamming, spoofing detection and, increasingly, navigation message authentication support.

Indicative evaluated pricing ranges from approximately USD 1.5–8 for high-volume single-band standard modules, USD 8–35 for industrial dual-band modules, USD 35–250 for high-precision RTK modules, and USD 150–1,500 or above for advanced OEM boards, dual-antenna heading modules and GNSS/INS positioning units. Major applications include automotive navigation and telematics, asset tracking, micromobility, wearables, UAVs, robotics, surveying, precision agriculture, machine control, telecom base-station timing, power-grid synchronization, financial network timing and other systems requiring reliable position and time references.

Based on our research, the GNSS receiver module industry should not be treated as a generic “GPS module” market. Its economic substance is an embedded PNT component market built around the generation of position, velocity, timing and heading outputs for downstream systems. Under a narrow research scope, the relevant products are standalone GNSS receiver modules, SiP modules, OEM receiver boards, RTK/PPP high-precision modules, GNSS/INS dead-reckoning modules, automotive-grade positioning modules and timing modules. This excludes finished RTK receivers, vehicle navigation devices, asset-tracking terminals, antennas, correction services and chip-only products. The low-cost standard-precision segment is already mature, with competition centred on size, power consumption, certification, supply stability and unit cost. Structural growth is instead concentrated in dual-band positioning, high-precision RTK/PPP, automotive dead reckoning, robotics, UAVs, autonomous machinery and timing security.

From a supply perspective, the global competitive structure is layered rather than purely revenue-ranked. High-volume module suppliers such as u-blox, Quectel, Telit Cinterion, STMicroelectronics, FURUNO, Alps Alpine and Murata are more visible in standard precision, automotive, IoT and timing modules. High-precision OEM board and receiver-module suppliers such as Trimble, Hexagon/NovAtel, Septentrio, Topcon, Hemisphere GNSS, JAVAD, Unicore, ComNav, Tersus and Bynav compete on RTK/PPP performance, multi-frequency support, heading, raw data output, robustness and industrial integration. A third layer of regional and specialist suppliers, including LOCOSYS, SkyTraq, GlobalTop, YIC, Navisys and Antenova, remains relevant in embedded modules, smart antenna modules and niche IoT applications. This explains why the broad longlist is materially larger than the formal core list: chip vendors, antenna module vendors, finished-device vendors, distributors and legacy brands need to be separated from current module manufacturers.

From the demand side, baseline shipment volume still comes from vehicle telematics, fleet management, low-cost asset tracking, shared mobility, wearables and portable devices. However, the higher-value part of demand is shifting toward applications that require robust positioning in weak-signal or high-multipath environments. ADAS, autonomous mobile robots, UAVs, robotic lawn mowers, agricultural autonomy, mining and port automation, surveying equipment and machine control are pushing module suppliers toward multi-frequency reception, RTK/PPP engines, inertial fusion and higher update rates. In parallel, telecom, power, financial infrastructure, broadcasting and data-centre synchronization are supporting a separate timing-oriented demand pool. As a result, future market growth is likely to be driven less by simple unit volume expansion and more by mix improvement from standard modules to high-precision, automotive-

grade and timing-grade products.

From a policy and technology perspective, the coexistence of GPS, BeiDou, Galileo, GLONASS, QZSS and NavIC is increasing the importance of multi-constellation and multi-band module architectures. Galileo's OSNMA becoming operational has also raised the relevance of authenticated navigation messages, anti-spoofing features and resilient PNT design in high-end receivers. The strategic importance of GNSS is no longer limited to consumer navigation; it now extends into transportation safety, critical infrastructure timing, unmanned systems and industrial autonomy. Over the medium term, the industry is unlikely to converge into a single commodity module market. Instead, it should remain segmented into low-cost standard modules, automotive-grade modules, high-precision OEM boards, GNSS/INS modules and secure timing modules, each with distinct pricing, qualification requirements and competitive logic.

This report is a detailed and comprehensive analysis for global GNSS OEM Board market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Product Integration Level and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global GNSS OEM Board market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GNSS OEM Board market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GNSS OEM Board market size and forecasts, by Product Integration Level and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GNSS OEM Board market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for GNSS OEM Board

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global GNSS OEM Board market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include u-blox AG, Quectel Wireless Solutions, Telit Cinterion, STMicroelectronics N.V., FURUNO Electric, Trimble Inc., Hexagon AB, Septentrio NV, Unicore Communications, Allystar, etc.

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

Market Segmentation

GNSS OEM Board market is split by Product Integration Level and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Product Integration Level, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Product Integration Level

Surface-mount GNSS Receiver Module

GNSS SiP Module

GNSS OEM Receiver Board

Smart Antenna / Integrated Antenna Module

Market segment by Positioning Performance

Standard Precision

Dual-band Enhanced Precision

High Precision RTK / PPP

Dead Reckoning / GNSS-INS

Market segment by Signal and Frequency Support

Single-band Multi-constellation

Dual-band L1/L5 or Equivalent

Multi-frequency All-band

Region-specific / BeiDou-focused

Market segment by Product Grade

Consumer / Commercial Grade

Industrial Grade

Automotive Grade

Timing / Infrastructure Grade

Aerospace / Defense-oriented

Market segment by Application

Automotive and Telematics

IoT and Asset Tracking

UAV, Robotics and Autonomy

Surveying, Agriculture and Machine Control

Timing and Critical Infrastructure

Major players covered

u-blox AG

Quectel Wireless Solutions

Telit Cinterion

STMicroelectronics N.V.

FURUNO Electric

Trimble Inc.

Hexagon AB

Septentrio NV

Unicore Communications

Allystar

LOCOSYS Technology

ComNav Technology

Topcon Corporation

Hemisphere GNSS

Tersus GNSS

Bynav Technology

Alps Alpine

Murata Manufacturing

SkyTraq Technology

Antenova Ltd.

TE Connectivity

SIMCom Wireless

Fibocom Wireless

MinewSemi

GlobalTop Technology

YIC Electronics

Navisys Technology

Argo Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe GNSS OEM Board product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GNSS OEM Board, with price, sales quantity, revenue, and global market share of GNSS OEM Board from 2021 to 2026.

Chapter 3, the GNSS OEM Board competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GNSS OEM Board breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Product Integration Level and by Application, with sales market share and growth rate by Product Integration Level, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and GNSS OEM Board market forecast, by regions, by Product Integration Level, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of GNSS OEM Board.

Chapter 14 and 15, to describe GNSS OEM Board sales channel, distributors, customers, research findings and conclusion.

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