

Global GNSS OEM Board Market Growth 2026-2032

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Abstracts

The global GNSS OEM Board market size is predicted to grow from US\$ 4549 million in 2025 to US\$ 7743 million in 2032; it is expected to grow at a CAGR of 7.9% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "GNSS OEM Board Industry Forecast" looks at past sales and reviews total world GNSS OEM Board sales in 2025, providing a comprehensive analysis by region and market sector of projected GNSS OEM Board sales for 2026 through 2032. With GNSS OEM Board sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GNSS OEM Board industry.

This Insight Report provides a comprehensive analysis of the global GNSS OEM Board landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GNSS OEM Board portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GNSS OEM Board market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GNSS OEM Board and breaks down the forecast by Product Integration Level, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global GNSS OEM Board.

This report presents a comprehensive overview, market shares, and growth opportunities of GNSS OEM Board market by product type, application, key manufacturers and key regions and countries.

Segmentation by Product Integration Level:

Surface-mount GNSS Receiver Module

GNSS SiP Module

GNSS OEM Receiver Board

Smart Antenna / Integrated Antenna Module

Segmentation by Positioning Performance:

Standard Precision

Dual-band Enhanced Precision

High Precision RTK / PPP

Dead Reckoning / GNSS-INS

Segmentation by Signal and Frequency Support:

Single-band Multi-constellation

Dual-band L1/L5 or Equivalent

Multi-frequency All-band

Region-specific / BeiDou-focused

Segmentation by Product Grade:

Consumer / Commercial Grade

Industrial Grade

Automotive Grade

Timing / Infrastructure Grade

Aerospace / Defense-oriented

Segmentation by Application:

Automotive and Telematics

IoT and Asset Tracking

UAV, Robotics and Autonomy

Surveying, Agriculture and Machine Control

Timing and Critical Infrastructure

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global GNSS OEM Board market?

What factors are driving GNSS OEM Board market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GNSS OEM Board market opportunities vary by end market size?

How does GNSS OEM Board break out by Product Integration Level, by Application?

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