

Global GNSS OEM Board Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GNSS OEM Board market size is expected to reach \$ 7937 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global GNSS OEM Board production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global GNSS OEM Board total production and demand, 2021-2032, (K Units)

Global GNSS OEM Board total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: GNSS OEM Board domestic production, consumption, key domestic manufacturers and share

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

Global GNSS OEM Board production by Product Integration Level, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global GNSS OEM Board 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GNSS OEM Board 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 Product Integration Level, 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 GNSS OEM Board Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GNSS OEM Board Market, Segmentation by Product Integration Level:

Surface-mount GNSS Receiver Module

GNSS SiP Module

GNSS OEM Receiver Board

Smart Antenna / Integrated Antenna Module

Global GNSS OEM Board Market, Segmentation by Positioning Performance:

Standard Precision

Dual-band Enhanced Precision

High Precision RTK / PPP

Dead Reckoning / GNSS-INS

Global GNSS OEM Board Market, Segmentation by Signal and Frequency Support:

Single-band Multi-constellation

Dual-band L1/L5 or Equivalent

Multi-frequency All-band

Region-specific / BeiDou-focused

Global GNSS OEM Board Market, Segmentation by Product Grade:

Consumer / Commercial Grade

Industrial Grade

Automotive Grade

Timing / Infrastructure Grade

Aerospace / Defense-oriented

Global GNSS OEM Board Market, Segmentation by Application:

Automotive and Telematics

IoT and Asset Tracking

UAV, Robotics and Autonomy

Surveying, Agriculture and Machine Control

Timing and Critical Infrastructure

Companies Profiled:

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 Answered:

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

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