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Global Ultra Low Power GPS Module Market Growth 2026-2032

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Abstracts

The global Ultra Low Power GPS Module market size is predicted to grow from US$ 374 million in 2025 to US$ 540 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

An Ultra Low Power GPS Module is a compact, integrated electronic subsystem that combines a GNSS (Global Navigation Satellite System) radio frequency front-end, baseband processor, low-power memory, antenna interface, and power management unit (PMU) onto a single printed circuit board (PCB). Optimized for battery-operated IoT devices, it employs advanced power-saving techniques such as duty cycling, snapshot positioning, and assisted-GNSS (A-GPS) to limit active current consumption to the microampere (?A) range and tracking power to single-digit milliwatts (mW), enabling years of operation on small batteries while providing meter to sub-meter level positioning data for asset tracking and location-based services.

In 2025, global Ultra Low Power GPS Module production reached approximately 79.6 million units, with an average global market price of around US$ 4.8 per unit. The production capacity of Ultra Low Power GPS Module is approximately 98 million units per year, the average gross profit margin was 30-32%.

The upstream supply chain of Ultra Low Power GPS Module is comprised of providers of core GNSS SoC chipsets, low-power RF components (filters, crystals), miniature antennas (patch, ceramic), passive components (capacitors, resistors), and flexible/rigid PCBs; midstream activities include module design integration, firmware programming for power optimization, RF calibration, environmental testing, and regulatory certification; downstream consists of original design manufacturers (ODMs) and original equipment manufacturers (OEMs) that embed the modules into wearables, trackers,

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and industrial sensors, ultimately supplying end-users in logistics, healthcare, agriculture, and smart cities.

The cost structure is anchored by the GNSS SoC chipset, which accounts for 40%–50% of the total bill of materials (BOM) due to its specialized low-power semiconductor design; the second-largest component is the RF front-end and antenna subsystem at 15%–25%, followed by PCB and passive components at 10%–15%, and assembly labor at 5%–10%; the remaining costs are allocated to non-recurring engineering (NRE) amortization, firmware licensing, compliance testing (FCC/CE), and logistics overhead.

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

This Insight Report provides a comprehensive analysis of the global Ultra Low Power GPS Module 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 Ultra Low Power GPS Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Ultra Low Power GPS Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ultra Low Power GPS Module and breaks down the forecast by Type, 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 Ultra Low Power GPS Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Ultra Low Power GPS Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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Single?Constellation (GPS?Only)

Dual?Constellation (GPS + BDS/GLONASS)

Multi?Constellation (GPS + BDS + Galileo + GLONASS)

Segmentation by Positioning Accuracy:

Low?Accuracy (?10m)

Medium?Accuracy (2–10m)

High?Accuracy (

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