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Global Ultra Low Power GPS Market Growth 2026-2032

https://marketpublishers.com/r/U6577CC5BFD5EN.html
Date: June 2026
Pages: 142
Price: US$ 3,660.00 (Single User License)
ID: U6577CC5BFD5EN

Abstracts

The global Ultra Low Power GPS market size is predicted to grow from US$ 396 million in 2025 to US$ 573 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

Ultra Low Power GPS (ULP GPS) refers to a class of Global Navigation Satellite System (GNSS) receivers and modules optimized for extreme power efficiency, typically operating at single-digit to low double-digit milliwatt (mW) power levels during tracking and using duty?cycling, snapshot positioning, or cloud?assisted ephemeris to minimize active time. It delivers basic to moderate positioning accuracy while enabling multi?year battery life on coin?cell or small batteries, making it ideal for battery?powered IoT, wearables, and asset?tracking devices.

In 2025, global Ultra Low Power GPS production reached approximately 84 million units, with an average global market price of around US$ 4.8 per unit.

The upstream supply chain of Ultra Low Power GPS includes semiconductor foundries producing RF/Baseband SoCs, suppliers of passive components (crystals, capacitors), antennas, PCBs, and packaging materials; midstream involves module design, integration, firmware development, and testing for low?power performance and GNSS compliance; downstream serves ODMs, OEMs of wearables, IoT trackers, industrial sensors, and consumer electronics, with end?use in asset monitoring, personal wearables, smart logistics, and remote industrial devices.

The cost structure is dominated by the GNSS SoC/chipset (35%?45% of total cost), followed by passive components and antenna (15%?25%), PCB and assembly labor (10%?18%), firmware/software licensing and testing (8%?12%), with the remainder covering logistics, certification, and overhead expenses.

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LP Information, Inc. (LPI) ' newest research report, the ?Ultra Low Power GPS Industry Forecast? looks at past sales and reviews total world Ultra Low Power GPS sales in 2025, providing a comprehensive analysis by region and market sector of projected Ultra Low Power GPS sales for 2026 through 2032. With Ultra Low Power GPS 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 industry.

This Insight Report provides a comprehensive analysis of the global Ultra Low Power GPS 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 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 market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ultra Low Power GPS 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.

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

Segmentation by Type:

Independent Positioner

Advanced Positioner

Segmentation by Satellite Constellation Support:

Single?Constellation (GPS?Only)

Dual?Constellation (GPS + BDS/GLONASS)

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

Segmentation by Positioning Accuracy:

Low?Accuracy (?10m)

Medium?Accuracy (2?10m)

High?Accuracy (

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