

Global Ultra Low Power GPS Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G339C09F6853EN.html>

Date: April 2026

Pages: 141

Price: US\$ 3,480.00 (Single User License)

ID: G339C09F6853EN

Abstracts

According to our (Global Info Research) latest study, the global Ultra Low Power GPS market size was valued at US\$ 417 million in 2025 and is forecast to a readjusted size of US\$ 591 million by 2032 with a CAGR of 5.1% during review period.

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.

This report is a detailed and comprehensive analysis for global Ultra Low Power GPS market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Ultra Low Power GPS market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra Low Power GPS market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra Low Power GPS market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra Low Power GPS market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 Ultra Low Power GPS
- 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 Ultra Low Power GPS 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 Quectel, RF Solutions, Abeeway, Baseband Technology, u-blox, YIC, Lightbug, Kolmostar, Delin Comm, Shenzhen Skylab, etc.

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

Market Segmentation

Ultra Low Power GPS market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Independent Positioner

Advanced Positioner

Market segment by Satellite Constellation Support

Single Constellation (GPS Only)

Dual Constellation (GPS + BDS/GLONASS)

Multi Constellation (GPS + BDS + Galileo + GLONASS)

Market segment by Positioning Accuracy

Low Accuracy (>10m)

Medium Accuracy (2-10m)

High Accuracy (<2m)

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