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Global Low-power UWB SoC Market Growth 2026-2032

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Abstracts

The global Low-power UWB SoC market size is predicted to grow from US$ 112 million in 2025 to US$ 249 million in 2032; it is expected to grow at a CAGR of 12.3% from 2026 to 2032.

In 2024, global Low-power UWB SoC production reached approximately 11.3 million units with an average global market price of around US$9 per unit. Single-line annual production capacity averages 18 k units with a gross margin of approximately 35-40%. The upstream of the Low-power UWB SoC industry mainly includes key components such as RF devices, power amplifiers, and low-power analog/digital converters, concentrated in the semiconductor sector. In terms of downstream applications, consumer electronics account for approximately 40%, smart homes about 20%, industry around 15%, automotive approximately 10%, and other fields about 15%. With the development of the Internet of Things (IoT) and smart devices, the demand for Low-power UWB SoCs is continuously growing, with business opportunities primarily focused on enhancing device battery life, achieving precise positioning in complex environments, and promoting intelligent interaction technologies.

A Low-power UWB SoC is meticulously engineered to optimize energy efficiency without compromising on the precision and speed of data transmission, making it an essential component for battery-powered and energy-sensitive applications. By integrating advanced power management techniques and sophisticated signal processing algorithms, this SoC minimizes power consumption during operation, extends battery life, and reduces heat dissipation, which is critical for maintaining long-term reliability and performance in compact devices.

United States market for Low-power UWB SoC is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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China market for Low-power UWB SoC is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Low-power UWB SoC is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Low-power UWB SoC players cover NXP, Qorvo, Infineon, Samsung, Microchip Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-power UWB SoC 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 Low-power UWB SoC.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-power UWB SoC market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

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Segmentation by Type:

1T3R Transceiver Architecture

1T4R Transceiver Architecture

2T4R Transceiver Architecture

Segmentation by Scope of Application:

Consumer Grade UWB SoC

Automotive Grade UWB SoC

Segmentation by Application:

Automotive

Consumer Electronics

Industrial

Smart Home

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey

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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.

NXP

Qorvo

Infineon

Samsung

Microchip Technology

Mauna Kea Semiconductor

Hangzhou Ultraception Technology

Shenzhen Giant Microelectronics

Anhui Osemitech

Shenzhen NewRadio Tech

Changsha Chixin Technology

Shenzhen Chipsbank Technology

Ningbo Madeit Semiconductor

Haoyun Technologies

Nanjing Yudu Communication Technolog

Calterah Semiconductor Technology (Shanghai)

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-power UWB SoC market?

What factors are driving Low-power UWB SoC market growth, globally and by region?

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

How do Low-power UWB SoC market opportunities vary by end market size?

How does Low-power UWB SoC break out by Type, by Application?

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