

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Market Growth 2026-2032

<https://marketpublishers.com/r/GE6D443BDAA7EN.html>

Date: July 2026

Pages: 123

Price: US\$ 3,660.00 (Single User License)

ID: GE6D443BDAA7EN

Abstracts

The global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market size is predicted to grow from US\$ 3130 million in 2025 to US\$ 5455 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 2032.

Ultra-low-power wireless Internet of Things system-on-chip (SoC) refers to highly integrated microelectronic devices designed for low-power wireless communication and intelligent device control applications. Core attributes include ultra-low power consumption, wireless connectivity, and IoT protocol compatibility. The research scope covers SoCs supporting Bluetooth, Wi-Fi, Zigbee, Thread, and similar protocols. Primary product forms are single-chip systems integrating microcontrollers, RF front-ends, memory, and peripheral interfaces, fabricated using advanced CMOS processes. Key specifications include operating voltage of 1.8-3.3V, sleep currents in the microampere range, communication ranges from 10 to 200 meters, and data transfer rates from 100 kbps to 2 Mbps, supporting multiple low-power operation modes. Critical functionalities encompass wireless data transmission, sensor interfacing, low-power event handling, and remote control. Major applications span smart homes, wearable electronics, industrial sensors, medical monitoring, and smart city solutions. In 2025, the global average unit price is estimated at USD 2-5 per chip with an average industry gross margin of approximately 38-42%.

The ultra-low-power wireless IoT SoC industry relies on upstream semiconductor wafers, advanced CMOS processes, and RF component supply; midstream focuses on SoC design, packaging, and testing; downstream encompasses applications in smart homes, wearables, industrial IoT, and medical monitoring. Advancements in low-power design, edge computing, and wireless protocol standardization continue to enhance integration, reduce device size and power consumption, and improve communication

reliability, providing a solid foundation for sustained industry growth. Competition is increasingly diversified and stratified, with mature markets approaching saturation while emerging areas such as wearable medical devices and industrial sensors exhibit rapid growth. Companies pursue R&D investment, new product launches, mergers and acquisitions, and capacity expansion to increase market share. Additionally, regional supply chain optimization and migration address global challenges and cost pressures, promoting structural adjustment and value chain upgrades across the industry. Favorable global policies support the deployment of IoT and low-power devices, encouraging smart city, Industry 4.0, and green energy applications. The market is expected to maintain stable growth in the coming years, with next-generation ultra-low-power wireless SoCs enhancing data processing, RF performance, and multi-protocol compatibility. Industry capital expenditures and investment trends indicate that companies remain proactive in expanding R&D and production capabilities, driving the market toward higher value-added directions.

LP Information, Inc. (LPI) ' newest research report, the "Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Industry Forecast" looks at past sales and reviews total world Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) sales in 2025, providing a comprehensive analysis by region and market sector of projected Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) sales for 2026 through 2032. With Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) 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 Wireless Internet of Things System-on-Chip (IoT SoC) industry.

This Insight Report provides a comprehensive analysis of the global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT 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 Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) 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 Wireless Internet of Things System-on-Chip (IoT SoC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT 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 Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC).

This report presents a comprehensive overview, market shares, and growth opportunities of Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

MCU-centric SoC

Communication-centric SoC

Sensor-integrated SoC

Multi-functional SoC

Others

Segmentation by Packaging Form:

QFN / Quad Flat No-lead

WLCSP / Wafer-Level Chip Scale Package

BGA / Ball Grid Array

SIP / System-in-Package

Others

Segmentation by Process Node:

Advanced Node (>22nm)

Mainstream Node (40nm - 55nm)

Mature Node (>90nm)

Segmentation by Peak Power Consumption Level:

Nano-Watt Level (Sleep)

Micro-Watt Level (Sleep)

Milliwatt Level (Active, Idle)

Sub-10 Milliwatt (Active RX/TX)

Segmentation by Application:

Smart Home

Industrial IoT

Smart City

Healthcare & Medical

Agriculture IoT

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

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.

Nordic Semiconductor ASA

Silicon Laboratories Inc.

Espressif Systems Co., Ltd.

Telink Semiconductor Co., Ltd.

STMicroelectronics N.V.

NXP Semiconductors N.V.

Renesas Electronics Corporation

Microchip Technology Inc.

Texas Instruments Incorporated

Ambiq Micro, Inc.

Qorvo, Inc.

Shenzhen Jieyang Microelectronics Co., Ltd.

Actions Technology Co., Ltd.

Bestechnic (Shanghai) Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ultra-Low Power Wireless Internet of Things

System-on-Chip (IoT SoC) market?

What factors are driving Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market growth, globally and by region?

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

How do Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market opportunities vary by end market size?

How does Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) break out by Type, by Application?

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