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Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market size was valued at US$ 3293 million in 2025 and is forecast to a readjusted size of US$ 5584 million by 2032 with a CAGR of 7.8% during review period.

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

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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.

This report is a detailed and comprehensive analysis for global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) 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 Wireless Internet of Things System-on-Chip (IoT SoC) market size and forecasts, in consumption value ($ Million), sales quantity (Million Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market

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size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market shares of main players, shipments in revenue ($ Million), sales quantity (Million Pcs), and ASP (US$/Pcs), 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 Wireless Internet of Things System-on-Chip (IoT SoC)

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 Wireless Internet of Things System-on-Chip (IoT SoC) 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 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., etc.

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

Market Segmentation

Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) 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.

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Market segment by Type

MCU-centric SoC

Communication-centric SoC

Sensor-integrated SoC

Multi-functional SoC

Others

Market segment by Packaging Form

QFN / Quad Flat No-lead

WLCSP / Wafer-Level Chip Scale Package

BGA / Ball Grid Array

SIP / System-in-Package

Others

Market segment by Process Node

Advanced Node (?22nm)

Mainstream Node (40nm - 55nm)

Mature Node (?90nm)

Market segment by Peak Power Consumption Level

ano-Watt Level (Sleep)

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Micro-Watt Level (Sleep)

Milliwatt Level (Active, Idle)

Sub-10 Milliwatt (Active RX/TX)

Market segment by Application

Smart Home

Industrial IoT

Smart City

Healthcare & Medical

Agriculture IoT

Others

Major players covered

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.

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Texas Instruments Incorporated

Ambiq Micro, Inc.

Qorvo, Inc.

Shenzhen Jieyang Microelectronics Co., Ltd.

Actions Technology Co., Ltd.

Bestechnic (Shanghai) Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC), with price, sales quantity, revenue, and global market share of Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) from 2021 to 2026.

Chapter 3, the Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC)

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competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC).

Chapter 14 and 15, to describe Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) sales channel, distributors, customers, research findings and conclusion.

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3 COMPETITIVE ENVIRONMENT: ULTRA-LOW POWER WIRELESS INTERNET OF THINGS SYSTEM-ON-CHIP (IOT SOC) BY MANUFACTURER

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