+357 96 030922
info@marketpublishers.com

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G35343D9B42DEN.html
Date: June 2026
Pages: 125
Price: US$ 4,480.00 (Single User License)
ID: G35343D9B42DEN

Abstracts

The global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market size is expected to reach $ 5584 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

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

+357 96 030922
info@marketpublishers.com

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 studies the global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) total production and demand, 2021-2032, (Million Pcs)
Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) total production value, 2021-2032, (USD Million)
Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs), (based on production site)
Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) consumption by region & country, CAGR, 2021-2032 & (Million Pcs)
U.S. VS China: Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) domestic production, consumption, key domestic manufacturers and share
Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC)

+357 96 030922
info@marketpublishers.com

production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Pcs)
Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)
Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

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, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Pcs) and average price (US$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Market, By Region:

United States

China

+357 96 030922
info@marketpublishers.com

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Market, Segmentation by Type:

MCU-centric SoC

Communication-centric SoC

Sensor-integrated SoC

Multi-functional SoC

Others

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Market, Segmentation by Packaging Form:

QFN / Quad Flat No-lead

WLCSP / Wafer-Level Chip Scale Package

BGA / Ball Grid Array

SIP / System-in-Package

Others

+357 96 030922
info@marketpublishers.com

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Market, Segmentation by Process Node:

Advanced Node (?22nm)

Mainstream Node (40nm - 55nm)

Mature Node (?90nm)

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Market, Segmentation by Peak Power Consumption Level:

ano-Watt Level (Sleep)

Micro-Watt Level (Sleep)

Milliwatt Level (Active, Idle)

Sub-10 Milliwatt (Active RX/TX)

Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Market, Segmentation by Application:

Smart Home

Industrial IoT

Smart City

Healthcare & Medical

Agriculture IoT

Others

+357 96 030922
info@marketpublishers.com

Companies Profiled:

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 Answered:
1. How big is the global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market?
2. What is the demand of the global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market?
3. What is the year over year growth of the global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market?
4. What is the production and production value of the global Ultra-Low Power Wireless

+357 96 030922
info@marketpublishers.com

Internet of Things System-on-Chip (IoT SoC) market?
5. Who are the key producers in the global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

+357 96 030922
info@marketpublishers.com

6 MARKET ANALYSIS BY PACKAGING FORM

7 MARKET ANALYSIS BY PROCESS NODE

8 MARKET ANALYSIS BY PEAK POWER CONSUMPTION LEVEL

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

11 INDUSTRY CHAIN ANALYSIS

+357 96 030922
info@marketpublishers.com

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology
13.2 Research Process and Data Source
13.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

Typical Distributors

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Ultra-Low Power Wireless Internet of Things System-on-Chip (IoT SoC) Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/G35343D9B42DEN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G35343D9B42DEN.html