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Global Low-Power AIoT ICs Market Growth 2025-2031

https://marketpublishers.com/r/GA06B548DE86EN.html
Date: August 2025
Pages: 147
Price: US$ 3,660.00 (Single User License)
ID: GA06B548DE86EN

Abstracts

The global Low-Power AIoT ICs market size is predicted to grow from US$ 3359 million in 2025 to US$ 10144 million in 2031; it is expected to grow at a CAGR of 20.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Low-power AIoT ICs are integrated circuits designed for IoT devices, incorporating artificial intelligence to enable real-time data processing and analysis at the edge with ultra-low power consumption, aiming to drive the integration of “AIoT” (AI + IoT). These chips enhance IoT device battery life, enable edge computing to reduce latency and cloud dependency, and improve data security and privacy. Key benefits include energy efficiency, real-time responsiveness, high security, and flexible scalability, making them suitable for applications such as smart homes and industrial monitoring. Their functionality encompasses efficient data collection (e.g., sensor interfaces), AI-accelerated processing (e.g., image and speech recognition), low-power communication (supporting protocols like BLE and LoRa), and data encryption with identity authentication. Within the “AIoT” framework, these chips overcome traditional IoT limitations through localized AI capabilities, fostering the synergy between IoT and AI to enable widespread adoption of intelligent applications.

United States market for Low-Power AIoT ICs is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Low-Power AIoT ICs is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

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Europe market for Low-Power AIoT ICs is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Low-Power AIoT ICs players cover Silicon Labs, NXP Semiconductor, Ambiq, Infineon, Texas Instruments, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Low-Power AIoT ICs Industry Forecast” looks at past sales and reviews total world Low-Power AIoT ICs sales in 2024, providing a comprehensive analysis by region and market sector of projected Low-Power AIoT ICs sales for 2025 through 2031. With Low-Power AIoT ICs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Low-Power AIoT ICs industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-Power AIoT ICs 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 AIoT ICs.

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

Segmentation by Type:

AIoT MCU

AIoT SoC

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Others

Segmentation by Application:

Consumer Electronics

Automotive Electronics

Smart Industry

Smart City

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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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.

Silicon Labs

NXP Semiconductor

Ambiq

Infineon

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Texas Instruments

STMicroelectronics

Renesas Electronics

Analog Devices

Lenze SE

Canaan

Zhuhai Actions Technology

Zhuhai All Winner Technology

Flyingchip Technology (Shanghai)

ICLEGEND MICRO(Shanghai)

Suzhou Senscomm Semiconductor

Shanghai UNISOC

Rockchip Electronics

Amlogic (Shanghai)

Espressif Systems (Shanghai)

Xiamen SigmaStar Technology

Bestechnic (Shanghai)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-Power AIoT ICs market?

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What factors are driving Low-Power AIoT ICs market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Low-Power AIoT ICs market opportunities vary by end market size?
How does Low-Power AIoT ICs break out by Type, by Application?

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