

Global Low Power IC Chip Market Growth 2026-2032

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Abstracts

The global Low Power IC Chip market size is predicted to grow from US\$ 9567 million in 2025 to US\$ 18413 million in 2032; it is expected to grow at a CAGR of 9.9% from 2026 to 2032.

Low power IC chips refer to integrated circuit products designed to significantly reduce both operating and standby power consumption while still fulfilling specific computing, control, communication, sensing, or storage functions through methods such as low-power circuit design, advanced fabrication processes, dynamic voltage and frequency scaling, sleep/wake mechanisms, power gating, low-leakage process technologies, and hardware-software co-optimization. Their primary objective is to extend device battery life, minimize heat generation, and enhance energy efficiency under constraints such as limited battery capacity, thermal dissipation space, or power supply availability. These chips are commonly found in applications such as wearable devices, smartphones, IoT terminals, wireless sensors, smart home systems, medical electronics, automotive electronics, edge AI devices, Bluetooth/Wi-Fi communication modules, and portable consumer electronics.

The upstream segment of the low power IC chips industry chain primarily comprises EDA tools, IP cores, semiconductor materials, silicon wafers, photoresists, sputtering targets, specialty gases, packaging substrates, and testing equipment. The midstream segment encompasses chip design, wafer fabrication, packaging and testing, and module integration; product forms in this segment range from low-power MCUs, Bluetooth/Wi-Fi/NB-IoT communication chips, sensor chips, and power management chips to edge AI chips, wearable SoCs, and automotive-grade low-power control chips. The downstream segment involves applications in IoT terminals, smart wearables, smart home systems, medical electronics, mobile phone accessories, industrial sensors, automotive electronics, security equipment, and portable consumer electronics. The gross profit margin for low-power chips stands at approximately 48%.

In 2025, the average selling price of low power IC chips is projected to be \$3 per unit, with sales volume reaching 3.26 billion units and total production capacity amounting to 4.65 billion units.

From the demand perspective, the core value of low power IC chips lies in 'extending battery life, reducing heat generation, and enhancing the intelligence capabilities of end devices.' Consequently, demand for these chips continues to grow across the Internet of Things (IoT), wearable devices, smart homes, medical electronics, industrial sensors, automotive electronics, and edge AI devices. In particular, BLE (Bluetooth Low Energy), low-power MCUs, low-power Wi-Fi modules, PMICs (Power Management ICs), and edge AI SoCs are emerging as foundational components for battery-powered and always-on devices.

From the supply and competitive landscape perspective, low power IC chips do not constitute a single, isolated market segment; rather, they span across MCUs, wireless connectivity SoCs, power management chips, sensor SoCs, and edge AI chips. Competition in this space centers not merely on the sophistication of manufacturing processes, but also encompasses architectural design, power management, wireless protocol stacks, analog/RF capabilities, sleep/wake-up mechanisms, software ecosystems, and customer certification capabilities. While standard MCUs and BLE chips face intense price competition with their gross margins heavily influenced by inventory cycles and capacity fluctuations in mature manufacturing processes, products such as automotive-grade low-power MCUs, industrial-grade wireless SoCs, medical wearable chips, and low-power AI accelerators feature higher technical barriers and longer customer validation cycles, thereby commanding relatively better pricing and profit margins.

Regarding future development trends, low power IC chips are poised to evolve toward 'lower power consumption, higher integration, enhanced AI capabilities, and more secure connectivity.' Future products will increasingly integrate MCUs, wireless connectivity modules, PMICs, security modules, sensor interfaces, and NPU/AI acceleration units to meet the demands of end devices such as smart wearables, AI-enabled headphones, smart glasses, medical monitoring systems, industrial predictive maintenance solutions, and smart home appliances for miniaturization, extended battery life, and local real-time processing capabilities. The Medical IoT and wearable device sectors, in particular, require ultra-low-power edge AI chips to perform data processing locally; this approach reduces reliance on cloud infrastructure, minimizes latency, and enhances data privacy and security. Consequently, the future competitive

focus for low-power chips will shift from merely offering a 'low unit price per chip' to prioritizing 'system-level energy efficiency, comprehensive hardware-software ecosystems, AI compute-to-power ratios, and adaptability to specific application scenarios.'

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

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

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

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

Segmentation by Type:

Memory Chips

Analog Chips

Logic Chips

Segmentation by Performance Level:

Basic Low-Power Type

Mid-Performance Low-Power Type

High-Performance Low-Power Type

Segmentation by Supply Voltage:

Low-Voltage Low-Power Chips (<1.8 V)

Standard Low-Power Chips (1.8-3.6 V)

Segmentation by Application:

Internet of Things (IoT) Industry

Automotive Electronics

Industrial Control

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.

Texas Instruments

Microchip Technology

Silicon Labs

Ambiq

Analog Devices

STMicroelectronics

Nordic Semiconductor

Infineon

NXP

Renesas

ROHM

Toshiba

Sony Semiconductor Solutions

Epson

GigaDevice

Espressif

Telink Semiconductor

Bestechnic

Sino Wealth

Beken

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low Power IC Chip market?

What factors are driving Low Power IC Chip market growth, globally and by region?

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

How do Low Power IC Chip market opportunities vary by end market size?

How does Low Power IC Chip break out by Type, by Application?

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- 1.2 Years Considered
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