

Global Low Power IC Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low Power IC Chip market size is expected to reach \$ 18764 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

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.'

This report studies the global Low Power IC Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low Power IC Chip 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 Low Power IC Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low Power IC Chip total production and demand, 2021-2032, (Million Units)

Global Low Power IC Chip total production value, 2021-2032, (USD Million)

Global Low Power IC Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Low Power IC Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Low Power IC Chip domestic production, consumption, key domestic manufacturers and share

Global Low Power IC Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Low Power IC Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Low Power IC Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Low Power IC Chip 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 Texas Instruments, Microchip Technology, Silicon Labs, Ambiq, Analog Devices, STMicroelectronics, Nordic Semiconductor, Infineon, NXP, Renesas, 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 Low Power IC Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) 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 Low Power IC Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low Power IC Chip Market, Segmentation by Type:

Memory Chips

Analog Chips

Logic Chips

Global Low Power IC Chip Market, Segmentation by Performance Level:

Basic Low-Power Type

Mid-Performance Low-Power Type

High-Performance Low-Power Type

Global Low Power IC Chip Market, Segmentation by Supply Voltage:

Low-Voltage Low-Power Chips ($\leq 1.8\text{ V}$)

Standard Low-Power Chips (1.8–3.6 V)

Global Low Power IC Chip Market, Segmentation by Application:

Internet of Things (IoT) Industry

Automotive Electronics

Industrial Control

Others

Companies Profiled:

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 Answered:

1. How big is the global Low Power IC Chip market?
2. What is the demand of the global Low Power IC Chip market?
3. What is the year over year growth of the global Low Power IC Chip market?
4. What is the production and production value of the global Low Power IC Chip

market?

5. Who are the key producers in the global Low Power IC Chip market?

6. What are the growth factors driving the market demand?

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